

Valves & Actuation Price List

effective January 1, 2015

Manual Valves

Actuated Valves

Pressure Regulating Valves

Rotameters



NEW Type 578 Lug-style
Butterfly Valve as seen
on "Tanked"



We Ship Fast

Actuated Valves
**Shipped in
24 Hours**
Guaranteed!

24-Hour Shipping Program

GF Piping Systems is pleased to expand our in-stock actuated valve program to include almost 200 part numbers. Although GF offers a wide variety of actuated valve configurations, we realize certain configurations are significantly more common than others. It is our goal to have these popular valves pre-assembled and in stock, ready to ship within 24 hours. The affected valve part numbers are designated by a shaded background. Specific terms, including quantities, are available upon request and apply solely to GF distributors. Thank you for your continued support of the GF Valves and Actuation product line.

For more information

www.gfpiping.com or call 1 (800) 854-4090

Valves and Actuation Table of Contents

Manual Valves

Type 546 True Union Ball Valve	1
Tee Valve	6
Accessories Type 546 Ball Valve	7
Spare Parts Type 546 Ball Valve	8
Type 375 True Union Ball Valve	11
Type 523 Metering Ball Valve	12
Type 324 Laboratory Ball Cock Valve	12
Type 353/355 COLORO Ball Valve	13
Spare Parts Type 353/355 COLORO Valve	13
Type 543 3-Way Ball Valve Vertical and Horizontal	14
Spare Parts Type 543 3-Way Ball Valve Vertical and Horizontal	17
Type 567 Wafer Style Butterfly Valve	20
Type 563 Aqua Butterfly Valve	22
Type 578 Lug Style Butterfly Valve	23
Accessories Type 563/567/578 Butterfly Valve	25
Spare Parts Type 563/567/578 Butterfly Valve	26
VFA Butterfly Valve	27
Type 365 HP Lug Style Butterfly Valve	27
Diaphragm Valve	28
Accessories Diaphragm Valve	37
Spare Parts Diaphragm Valve	37
Type 561/562 Cone Check Valve	42
Type 591/595 Ventilating and Bleed Valve	46
Accessories Cone Check Valve	48
Spare Parts Cone Check Valve	48
Type 369 Wafer Check Valve	49
Accessories Type 369 Wafer Check Valve	49
Type 522 Needle Valve	49
Angle Seat Valve	50
Accessories Type 306 Line Strainer	51

Electrically Actuated Valves

Type 131-133 Electrically Actuated Ball Valve	52
Type 107 Electrically Actuated Ball Valve	55
Type 104 Electrically Actuated Ball Valve	56
Accessories Actuated Ball Valve	58
Spare Parts Actuated Ball Valve	59
Type 188 Electrically Actuated 3-Way Vertical Ball Valve	60
Type 128 Electrically Actuated 3-Way Vertical Ball Valve	60
Type 185-187 Electrically Actuated 3-Way Ball Valve	61
Type 125 Electrically Actuated 3-Way Horizontal Ball Valve	63
Accessories Electrically Actuated 3-Way Ball Valve	65
Spare Parts Electrically Actuated 3-Way Ball Valve	66
Type 140 Electrically Actuated Wafer Butterfly Valve	67
Type 144 Electrically Actuated Lug Butterfly Valve	71
Type 563 Electrically Actuated Aqua Butterfly Valve	75
VFA Electrically Actuated Wafer Butterfly Valve	75
Accessories Electrically Actuated Butterfly Valve	77
Spare Parts Electrically Actuated Butterfly Valve	78

Pneumatically Actuated Valves

Type 231-233 Pneumatically Actuated Ball Valve	79
Accessories Pneumatically Actuated Ball Valve	90
Spare Parts Pneumatically Actuated Ball Valve	91
Type 285-288 Pneumatically Actuated 3-Way Ball Valve	92
Accessories Pneumatically Actuated 3-Way Ball Valve	100
Spare Parts Pneumatically Actuated 3-Way Ball Valve	101
Type 240 Pneumatically Actuated Wafer Butterfly Valve	102
Type 244 Pneumatically Actuated Lug Butterfly Valve	105
Type 563 Pneumatically Actuated Wafer Butterfly Valve	107
VFA Actuated Wafer Butterfly Valve	107
Accessories Pneumatically Actuated Butterfly Valve	109
Spare Parts Pneumatically Actuated Butterfly Valve	111
DIASTAR Valve	112
Accessories DIASTAR Valve	130

Pressure Regulating Valves

Type 582 Pressure Reducing Valve	132
Type 586 Pressure Retaining Valve	134
Accessories PRVs	135
Spare Parts PRVs	135

Rotameters

Rotameters	136
Rotameter Accessories	138
Rotameter Scales	139
Rotameter Spare Parts	142

Part Number Index

Index	146
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Valves and Actuation



Type 546 True Union Ball Valve



Socket/Threaded NPT



Flanged



Lockable Handle

PVC

A

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 546 341	59.00	161 546 351	72.00	-	-	-	-
1/2	161 546 342	61.00	161 546 352	73.00	161 546 582	153.00	161 546 592	164.00
3/4	161 546 343	72.00	161 546 353	85.00	161 546 583	165.00	161 546 593	185.00
1	161 546 344	87.00	161 546 354	106.00	161 546 584	183.00	161 546 594	221.00
1 1/4	161 546 345	109.00	161 546 355	131.00	161 546 585	231.00	161 546 595	260.00
1 1/2	161 546 346	140.00	161 546 356	166.00	161 546 586	248.00	161 546 596	285.00
2	161 546 347	177.00	161 546 357	222.00	161 546 587	268.00	161 546 597	313.00
2 1/2	161 546 348	424.00	161 546 358	503.00	161 546 168	570.00	161 546 178	648.00
3	161 546 349	507.00	161 546 359	614.00	161 546 169	671.00	161 546 179	777.00
4	161 546 350	670.00	161 546 360	816.00	161 546 170	878.00	161 546 180	1,028.00
Size [inch]	Threaded NPT				Lockable Handle			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	3/8" - 2" Threaded NPT in above table				161 546 361	84.00	161 546 371	97.00
1/2					161 546 362	87.00	161 546 372	102.00
3/4					161 546 363	102.00	161 546 373	112.00
1					161 546 364	116.00	161 546 374	137.00
1 1/4					161 546 365	142.00	161 546 375	165.00
1 1/2					161 546 366	177.00	161 546 376	200.00
2					161 546 367	215.00	161 546 377	258.00
2 1/2	161 546 648	572.00	161 546 658	673.00	161 546 368	519.00	161 546 378	614.00
3	161 546 649	703.00	161 546 659	823.00	161 546 369	625.00	161 546 379	742.00
4	161 546 650	837.00	161 546 660	972.00	161 546 370	851.00	161 546 380	874.00

Vented Ball for Sodium Hypochlorite Use

A

Size [inch]	PVC			
	EPDM	USD	FPM	USD
3/8	151 546 341	90.00	151 546 351	105.00
1/2	151 546 342	92.00	151 546 352	106.00
3/4	151 546 343	105.00	151 546 353	116.00
1	151 546 344	118.00	151 546 354	137.00
1 1/4	151 546 345	141.00	151 546 355	163.00
1 1/2	151 546 346	172.00	151 546 356	198.00
2	151 546 347	209.00	151 546 357	255.00
2 1/2	151 546 348	455.00	151 546 358	536.00
3	151 546 349	538.00	151 546 359	647.00
4	151 546 350	701.00	151 546 360	850.00



All Type 546 Ball Valves can be vented - If desired configuration is not shown, please call Inside Sales for pricing

Type 546 True Union Ball Valve



Socket/Threaded NPT



Flanged

CPVC

A

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	163 546 341	98.00	163 546 351	108.00	-	-	-	-
1/2	163 546 342	103.00	163 546 352	110.00	163 546 582 ^	154.00	163 546 592 ^	222.00
3/4	163 546 343	116.00	163 546 353	135.00	163 546 583 ^	171.00	163 546 593 ^	237.00
1	163 546 344	142.00	163 546 354	169.00	163 546 584 ^	244.00	163 546 594 ^	291.00
1 1/4	163 546 345	180.00	163 546 355	211.00	163 546 585 ^	258.00	163 546 595 ^	346.00
1 1/2	163 546 346	215.00	163 546 356	253.00	163 546 586 ^	300.00	163 546 596 ^	383.00
2	163 546 347	267.00	163 546 357	337.00	163 546 587 ^	451.00	163 546 597 ^	512.00
2 1/2	163 546 348	693.00	163 546 358	787.00	163 546 588 ^	876.00	163 546 598 ^	982.00
3	163 546 349	847.00	163 546 359	982.00	163 546 589 ^	1,070.00	163 546 599 ^	1,214.00
4	163 546 350	1,018.00	163 546 360	1,181.00	163 546 590 ^	1,252.00	163 546 600 ^	1,520.00
Size [inch]	Lockable Handle							
	EPDM	USD	FPM	USD				
3/8	163 546 361	134.00	163 546 371	142.00				
1/2	163 546 362	135.00	163 546 372	146.00				
3/4	163 546 363	151.00	163 546 373	167.00				
1	163 546 364	180.00	163 546 374	206.00				
1 1/4	163 546 365	231.00	163 546 375	258.00				
1 1/2	163 546 366	267.00	163 546 376	295.00				
2	163 546 367	323.00	163 546 377	381.00				
2 1/2	163 546 368	837.00	163 546 378	948.00				
3	163 546 369	1,015.00	163 546 379	1,155.00				
4	163 546 370	1,195.00	163 546 380	1,365.00				

Vented Ball for Sodium Hypochlorite Use

A

Size [inch]	CPVC				
	EPDM	USD	FPM	USD	
3/8	153 546 341	131.00	153 546 351	140.00	
1/2	153 546 342	134.00	153 546 352	142.00	
3/4	153 546 343	150.00	153 546 353	167.00	
1	153 546 344	176.00	153 546 354	200.00	
1 1/4	153 546 345	212.00	153 546 355	243.00	
1 1/2	153 546 346	247.00	153 546 356	286.00	
2	153 546 347	299.00	153 546 357	368.00	
2 1/2	153 546 348	713.00	153 546 358	819.00	
3	153 546 349	879.00	153 546 359	1,012.00	
4	153 546 350	1,051.00	153 546 360	1,213.00	

All Type 546 Ball Valves can be vented - If desired configuration is not shown, please call Inside Sales for pricing

Type 546 True Union Ball Valve



Socket Fusion



IR/Butt Fusion



Threaded NPT



Flanged

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 546 401 *	66.00	167 546 411 *	82.00	-	-	-	-
20	167 546 402	70.00	167 546 412	84.00	167 546 442	75.00	167 546 452	89.00
25	167 546 403	83.00	167 546 413	100.00	167 546 443	88.00	167 546 453	104.00
32	167 546 404	114.00	167 546 414	123.00	167 546 444	109.00	167 546 454	132.00
40	167 546 405	126.00	167 546 415	154.00	167 546 445	134.00	167 546 455	160.00
50	167 546 406	168.00	167 546 416	202.00	167 546 446	174.00	167 546 456	213.00
63	167 546 407	202.00	167 546 417	260.00	167 546 447	212.00	167 546 457	272.00
75	167 546 408	490.00	167 546 418	632.00	167 546 448	502.00	167 546 458	610.00
90	167 546 409	610.00	167 546 419	791.00	167 546 449	625.00	167 546 459	762.00
110	167 546 410	735.00	167 546 420	949.00	167 546 450	745.00	167 546 460	930.00
Size [inch]	Threaded NPT				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	167 546 321 *	91.00	167 546 331 *	106.00	-	-	-	-
1/2	167 546 322	95.00	167 546 332	111.00	167 546 582	144.00	167 546 592	160.00
3/4	167 546 323	111.00	167 546 333	125.00	167 546 583	155.00	167 546 593	181.00
1	167 546 324	133.00	167 546 334	157.00	167 546 584	191.00	167 546 594	219.00
1 1/4	167 546 325	171.00	167 546 335	195.00	167 546 585	261.00	167 546 595	276.00
1 1/2	167 546 326	213.00	167 546 336	252.00	167 546 586	291.00	167 546 596	327.00
2	167 546 327	258.00	167 546 337	312.00	167 546 587	364.00	167 546 597	393.00
2 1/2	-	-	-	-	167 546 588 ^	718.00	167 546 598 ^	862.00
3	-	-	-	-	167 546 589 ^	906.00	167 546 599 ^	1,078.00
4	-	-	-	-	167 546 590 ^	1,092.00	167 546 600 ^	1,293.00

PROGEF® Natural PP

A

d [mm]	PP Valve with PPn IR/Butt Fusion Ends			
	EPDM	USD	FPM	USD
20	157 546 442 ^	138.00	157 546 452 ^	148.00
25	157 546 443 ^	160.00	157 546 453 ^	164.00
32	157 546 444 ^	172.00	157 546 454 ^	189.00
40	157 546 445 ^	188.00	157 546 455 ^	227.00
50	157 546 446 ^	227.00	157 546 456 ^	284.00
63	157 546 447 ^	276.00	157 546 457 ^	339.00



PROGEF® Standard PP valve body with PROGEF® Natural PP (PPn) valve ends

Type 546 True Union Ball Valve

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion		 Socket Fusion	 IR/Butt Fusion
	FPM	USD	FPM	USD		
16	175 546 411 *	210.00	-	-		
20	175 546 412	225.00	175 546 272	267.00		
25	175 546 413	276.00	175 546 273	320.00		
32	175 546 414	363.00	175 546 274	422.00		
40	175 546 415 ^	465.00	175 546 275 ^	567.00		
50	175 546 416	682.00	175 546 276	769.00		
63	175 546 417	943.00	175 546 277	1,074.00		
75	175 546 418	2,593.00	175 546 278	2,593.00		
90	175 546 419	3,229.00	175 546 279	3,229.00		
110	175 546 420	3,875.00	175 546 280	3,875.00		
Size [inch]	Threaded NPT		Flanged		 Threaded NPT	 Flanged
FPM	USD	FPM	USD			
3⁄8	175 546 331	261.00	-	-		
1⁄2	175 546 332	276.00	175 546 592	323.00		
3⁄4	175 546 333	327.00	175 546 593	423.00		
1	175 546 334	422.00	175 546 594	492.00		
1 1⁄4	175 546 335	567.00	175 546 595	615.00		
1 1⁄2	175 546 336	742.00	175 546 596	852.00		
2	175 546 337	1,030.00	175 546 597	1,160.00		

Type 546 Control Ball

C

Size [inch]	Control Ball Only - Please Add Valve to Below Price						
	PVC	USD	PP	USD	PVDF	USD	
1/2	161 491 032	128.00	167 483 419	131.00	175 483 379	137.00	
3/4, 1	161 491 034	135.00	167 483 421	139.00	175 483 381	183.00	
1 1/2, 2	161 491 037	173.00	167 483 424	185.00	175 483 384	421.00	

3/4 and 1-1/2 valves are reduced from the next largest size. Price using 1" and 2" valves, respectively

CPVC option available upon request

When used with an actuated valve, a positioner is required

How To Order:

1. Add option "C" to the end of the valve part number
2. Add option "C" price from above table to the list price of the chosen valve
3. "C" discount applies to manual and actuated valves with control ball

Example: 161.546.344C - Total List = Valve list + Control Ball Adder

Type 546 True Union Ball Valve



PVC Socket



CPVC Socket



PP Plus Socket Fusion



PP Plus IR/Butt Fusion

Silicone Free

A

Size [inch]	PVC Socket				CPVC Socket			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 546 841 ^	66.00	161 546 851 ^	83.00	-	-	-	-
1/2	161 546 842 ^	74.00	161 546 852 ^	89.00	163 546 842 ^	138.00	163 546 852 ^	140.00
3/4	161 546 843 ^	87.00	161 546 853 ^	105.00	163 546 843 ^	162.00	163 546 853 ^	169.00
1	161 546 844 ^	106.00	161 546 854 ^	130.00	163 546 844 ^	202.00	163 546 854 ^	214.00
1 1/4	161 546 845 ^	133.00	161 546 855 ^	158.00	163 546 845 ^	281.00	163 546 855 ^	267.00
1 1/2	161 546 846 ^	169.00	161 546 856 ^	201.00	163 546 846 ^	306.00	163 546 856 ^	321.00
2	161 546 847 ^	213.00	161 546 857 ^	266.00	163 546 847 ^	386.00	163 546 857 ^	428.00
2 1/2	161 546 848 ^	520.00	161 546 858 ^	702.00	-	-	-	-
3	161 546 849 ^	677.00	161 546 859 ^	801.00	-	-	-	-
4	161 546 850 ^	819.00	161 546 860 ^	999.00	-	-	-	-

d [mm]	PP Plus Socket Fusion				PP Plus IR-Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 546 601 *	74.00	167 546 611 *	90.00	-	-	-	-
20	167 546 602 ^	75.00	167 546 612 ^	89.00	167 546 662 ^	99.00	167 546 672 ^	119.00
25	167 546 603 ^	88.00	167 546 613 ^	104.00	167 546 663 ^	121.00	167 546 673 ^	142.00
32	167 546 604 ^	109.00	167 546 614 ^	132.00	167 546 664 ^	147.00	167 546 674 ^	175.00
40	167 546 605 ^	134.00	167 546 615 ^	160.00	167 546 665 ^	199.00	167 546 675 ^	212.00
50	167 546 606 ^	174.00	167 546 616 ^	213.00	167 546 666 ^	222.00	167 546 676 ^	270.00
63	167 546 607 ^	212.00	167 546 617 ^	267.00	167 546 667 ^	273.00	167 546 677 ^	350.00
75	167 546 608 ^	502.00	167 546 618 ^	610.00	167 546 668 ^	548.00	167 546 678 ^	670.00
90	167 546 609 ^	625.00	167 546 619 ^	762.00	167 546 669 ^	680.00	167 546 679 ^	835.00
110	167 546 610 ^	745.00	167 546 620 ^	912.00	167 546 670 ^	816.00	167 546 680 ^	1,003.00

PROGEF® Plus PP (PP Plus) is PROGEF® Standard PP that is oil/silicone free

d [mm]	PVDF Socket Fusion		PVDF IR/Butt Fusion			
	FPM	USD	FPM	USD		
16	175 546 691 ^	208.00	-	-		
20	175 546 692 ^	221.00	175 546 752 ^	268.00		
25	175 546 693 ^	273.00	175 546 753 ^	318.00		
32	175 546 694 ^	354.00	175 546 754 ^	411.00		
40	175 546 695 ^	460.00	175 546 755 ^	557.00		
50	175 546 696 ^	668.00	175 546 756 ^	754.00		
63	175 546 697 ^	930.00	175 546 757 ^	1,053.00		

PVDF Socket Fusion

PVDF IR/Butt Fusion

All Type 546 Ball Valves can be assembled silicone free - If desired configuration is not shown, please call Inside Sales for pricing

Tee Valve

PVC and CPVC

A

Size [inch]	Socket			
	PVC/EPDM	USD	CPVC/EPDM	USD
¾ x ¾	150 319 122 ^	116.00	-	-
1 x ½	150 319 100 ^	134.00	153 319 100	206.00
1 x ¾	150 319 132 ^	139.00	-	-
1 ¼ x ½	150 319 101 ^	136.00	153 319 101	221.00
1 ¼ x 1	150 319 102 ^	146.00	153 319 102	255.00
1 ½ x ½	150 319 103 ^	136.00	153 319 103	231.00
1 ½ x ¾	150 319 119 ^	141.00	-	-
1 ½ x 1	150 319 104 ^	146.00	153 319 104	264.00
1 ½ x 1 ½	150 319 131 ^	155.00	-	-
2 x ½	150 319 105 ^	173.00	153 319 105	284.00
2 x ¾	150 319 106 ^	179.00	153 319 106	262.00
2 x 1	150 319 107 ^	185.00	153 319 107	321.00
2 x 1 ½	150 319 108 ^	230.00	153 319 108	379.00
3 x ½	150 319 109 ^	178.00	153 319 109	357.00
3 x ¾	150 319 120 ^	184.00	-	-
3 x 1	150 319 110 ^	193.00	153 319 110	391.00
3 x 1 ½	150 319 111 ^	219.00	153 319 111	445.00
3 x 2	150 319 112 ^	239.00	153 319 112	488.00
4 x ¾	150 319 121 ^	211.00	-	-
4 x 1	150 319 113 ^	219.00	153 319 113	480.00
4 x 1 ½	150 319 114 ^	249.00	153 319 114	536.00
4 x 2	150 319 115 ^	272.00	153 319 115	638.00
6 x 1	150 319 123 ^	321.00	-	-
6 x 2	150 319 116 ^	321.00	153 319 116	810.00
6 x 2 ½	150 319 125 ^	592.00	153 319 124	878.00
6 x 3	150 319 126 ^	756.00	153 319 128	1,095.00
6 x 4	150 319 127 ^	970.00	153 319 126	1,311.00
8 x 2	150 319 117 ^	474.00	153 319 117	810.00
8 x 2 ½	150 319 128 ^	699.00	153 319 125	878.00
8 x 3	150 319 129 ^	811.00	153 319 123	1,095.00
8 x 4	150 319 130 ^	1,296.00	153 319 127	1,311.00



FPM available - 10% list adder

Type 546 accessories and spare parts can be used with Tee Valves

Other sizes available upon request

PROGEF® Standard PP

A

d [mm]	IR/Butt Fusion			
	EPDM	USD	FPM	USD
63 x 25	157 319 106	336.00	157 319 206	346.00
63 x 32	157 319 107	336.00	157 319 207	346.00
90 x 25	157 319 120	372.00	157 319 220	383.00
90 x 32	157 319 110	372.00	157 319 210	383.00
110 x 25	157 319 121	392.00	157 319 221	405.00
110 x 32	157 319 113	392.00	157 319 213	405.00
160 x 32	157 319 123	522.00	157 319 223	543.00
160 x 63	157 319 124	584.00	157 319 224	605.00



Accessories Type 546 Ball Valve



Handle Extension



Upper/Lower Adapters



PVC Handle Extension

d - d [mm]	Size [Inch]	Part No.	USD
16 - 20	3/8 - 1/2	161 486 443	18.00
25 - 32	3/4 - 1	161 486 444	18.00
40 - 50	1 1/4 - 1 1/2	161 486 445	21.00
63	2	161 486 446	21.00

C Mounting Plate

d - d [mm]	Size [Inch]	Part No.	USD
16 - 32	3/8 - 1	167 484 110	3.00
40 - 63	1 1/4 - 2	167 484 111	4.00

Includes upper and lower socket extension adapters

Does not include 3/4" pipe

Multifunction Modules (MFM)

d - d [mm]	Size [Inch]	without Limit Switches			
		Part No.	USD		
16 - 20	3/8 - 1/2	167 482 680	4.00		
25 - 32	3/4 - 1	167 482 681	4.00		
40 - 50	1 1/4 - 1 1/2	167 482 682	6.00		
63	2	167 482 683	8.00		
75 - 90	2 1/2 - 3	167 482 684	30.00		
110	4	167 482 685	41.00		
d - d [mm]	Size [Inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	58.00	167 482 635	58.00
25 - 32	3/4 - 1	167 482 627	61.00	167 482 636	61.00
40 - 50	1 1/4 - 1 1/2	167 482 628	74.00	167 482 637	74.00
63	2	167 482 629	79.00	167 482 638	79.00
75 - 90	2 1/2 - 3	167 482 630	107.00	167 482 639	107.00
110	4	167 482 631	123.00	167 482 640	123.00
d - d [mm]	Size [Inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	200.00	167 482 653	200.00
25 - 32	3/4 - 1	167 482 663	206.00	167 482 654	206.00
40 - 50	1 1/4 - 1 1/2	167 482 664	219.00	167 482 655	219.00
63	2	167 482 665	222.00	167 482 656	222.00
75 - 90	2 1/2 - 3	167 482 666	255.00	167 482 657	255.00
110	4	167 482 667	271.00	167 482 658	271.00

All MFM's require the lockable handle when used with a manual Type 546 Ball Valve

Adding a Multifunction Module limit switch to a manual ball valve is a simple way to read a valve's position and avoid costly mistakes



Spare Parts Type 546 Ball Valve

Ball Set

A

Size [inch]	PVC/EPDM	USD	PVC/FPM	USD	CPVC/EPDM	USD	CPVC/FPM	USD
⅜	161 486 375	39.00	161 486 385	45.00	163 481 375	60.00	163 481 385	72.00
½	161 486 375	39.00	161 486 385	45.00	163 481 375	60.00	163 481 385	72.00
¾	161 486 376	41.00	161 486 386	54.00	163 481 376	61.00	163 481 386	85.00
1	161 486 377	48.00	161 486 387	60.00	163 481 377	75.00	163 481 387	96.00
1 ¼	161 486 378	54.00	161 486 388	72.00	163 481 378	84.00	163 481 388	115.00
1 ½	161 486 379	66.00	161 486 389	87.00	163 481 379	104.00	163 481 389	140.00
2	161 486 380	92.00	161 486 390	128.00	163 481 380	142.00	163 481 390	207.00
2 ½	161 486 381	218.00	161 486 391	285.00	163 481 381	273.00	163 481 391	366.00
3	161 486 382	273.00	161 486 392	355.00	163 481 382	341.00	163 481 392	457.00
4	161 486 383	329.00	161 486 393	426.00	163 481 383	409.00	163 481 393	550.00
d [mm]	PP/EPDM	USD	PP/FPM	USD	PVDF/FPM	USD		
16	167 484 125	43.00	167 484 135	50.00	175 483 275	128.00		
20	167 484 125	43.00	167 484 135	50.00	175 483 275	128.00		
25	167 484 126	45.00	167 484 136	59.00	175 483 276	147.00		
32	167 484 127	53.00	167 484 137	66.00	175 483 277	176.00		
40	167 484 128	59.00	167 484 138	79.00	175 483 278	214.00		
50	167 484 129	73.00	167 484 139	96.00	175 483 279	276.00		
63	167 484 130	101.00	167 484 140	141.00	175 483 280	409.00		
75	167 484 131	240.00	167 484 141	314.00	175 483 281	955.00		
90	167 484 132	300.00	167 484 142	391.00	175 483 282	1,195.00		
110	167 484 133	362.00	167 484 143	469.00	175 483 283	1,433.00		

Ball set consists of: ball, stem, seats, and internal seals

Handle

A

d - Size [mm]-[inch]	Standard Handle				Multifunction Handle		
	Red	USD	Black	USD	Lockable	USD	
16 - ⅝	167 484 088	3.00	167 484 076	4.00	167 484 100	16.00	
20 - ½	167 484 088	3.00	167 484 076	4.00	167 484 100	16.00	
25 - ¾	167 484 089	3.00	167 484 077	4.00	167 484 101	18.00	
32 - 1	167 484 090	4.00	167 484 078	5.00	167 484 102	19.00	
40 - 1 ¼	167 484 091	4.00	167 484 079	5.00	167 484 103	21.00	
50 - 1 ½	167 484 092	5.00	167 484 080	6.00	167 484 104	24.00	
63 - 2	167 484 093	6.00	167 484 081	7.00	167 484 105	26.00	
75 - 2 ½	167 484 094	19.00	167 484 082	19.00	161 486 689	48.00	
90 - 3	167 484 095	19.00	167 484 083	19.00	161 486 690	71.00	Lockable Handle
110 - 4	167 484 096	26.00	167 484 084	26.00	161 486 691	82.00	

Spare Parts Type 546 Ball Valve

Face Seal

A

d - Size [mm]-[inch]	EPDM	USD	FPM	USD
16 - 3/8	748 410 059	2.00	749 410 059	3.00
20 - 1/2	748 410 059	2.00	749 410 059	3.00
25 - 3/4	748 410 106	2.00	749 410 106	3.00
32 - 1	748 410 151	3.00	749 410 151	14.00
40 - 1 1/4	748 410 062	5.00	749 410 062	21.00
50 - 1 1/2	748 410 003 *	5.00	749 410 003 *	22.00
63 - 2	748 410 231	5.00	749 410 231	26.00
75 - 2 1/2	748 410 119	3.00	749 410 119	22.00
90 - 3	748 410 023	7.00	749 410 023	47.00
110 - 4	748 410 254	22.00	749 410 254	52.00



Seal Set

A

d - Size [mm]-[inch]	EPDM	USD	FPM	USD
16 - 3/8	161 486 400	31.00	161 486 410	34.00
20 - 1/2	161 486 400	31.00	161 486 410	34.00
25 - 3/4	161 486 401	35.00	161 486 411	48.00
32 - 1	161 486 402	43.00	161 486 412	61.00
40 - 1 1/4	161 486 403	50.00	161 486 413	84.00
50 - 1 1/2	161 486 404	60.00	161 486 414	91.00
63 - 2	161 486 405	71.00	161 486 415	132.00
75 - 2 1/2	161 486 406	173.00	161 486 416	340.00
90 - 3	161 486 407	218.00	161 486 417	457.00
110 - 4	161 486 408	262.00	161 486 418	589.00



Seal Set consists of: backing-, body-, face-, and stem seals



Valve Nut

A

d - Size [mm]-[inch]	PVC	USD	CPVC	USD	PP	USD	PVDF	USD
16 - 3/8	161 490 538	5.00	163 481 226	9.00	167 482 712	4.00	175 482 937	12.00
20 - 1/2	161 490 538	5.00	163 481 226	9.00	167 482 712	4.00	175 482 937	12.00
25 - 3/4	161 490 539	5.00	163 481 227	11.00	167 482 713	4.00	175 482 938	23.00
32 - 1	161 490 540	8.00	163 481 228	14.00	167 482 714	5.00	175 482 939	29.00
40 - 1 1/4	161 490 541	11.00	163 481 229	26.00	167 482 715	8.00	175 482 940	45.00
50 - 1 1/2	161 490 542	16.00	163 481 230	32.00	167 482 716	14.00	175 482 941	59.00
63 - 2	161 490 543	27.00	163 481 231	50.00	167 482 717	22.00	175 482 942	97.00
75 - 2 1/2	161 490 544	66.00	163 481 232	111.00	167 482 718	54.00	-	-
90 - 3	161 490 545	84.00	163 481 233	140.00	167 482 719	66.00	-	-
110 - 4	161 490 546	102.00	163 481 234	167.00	167 482 720	79.00	-	-

3/8" (16mm) and 1/2"(20mm) Type 546 valves both use the same valve nut

Spare Parts Type 546 Ball Valve



Valve End

A

Size [inch]	PVC				CPVC			
	Socket	USD	Threaded NPT	USD	Socket	USD	Threaded NPT	USD
3/8	161 490 712	2.00	161 490 723	4.00	163 481 311	5.00	163 481 322	5.00
1/2	161 490 713	2.00	161 490 724	5.00	163 481 312	5.00	163 481 323	5.00
3/4	161 490 714	2.00	161 490 725	8.00	163 481 313	6.00	163 481 324	6.00
1	161 490 715	3.00	161 490 726	9.00	163 481 314	6.00	163 481 325	6.00
1 1/4	161 490 716	4.00	161 490 727	15.00	163 481 315	14.00	163 481 326	14.00
1 1/2	161 490 717	8.00	161 490 728	20.00	163 481 316	22.00	163 481 327	22.00
2	161 490 718	16.00	161 490 729	28.00	163 481 317	26.00	163 481 328	26.00
2 1/2	161 490 719	35.00	161 490 730	65.00	163 481 318	62.00	163 481 329	93.00
3	161 490 720	45.00	161 490 731	141.00	163 481 319	77.00	163 481 330	103.00
4	161 490 721	54.00	161 490 732	313.00	163 481 320	95.00	163 481 331	106.00
d - Size [mm]-[inch]	PP				PPn			
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD	IR/Butt Fusion	USD
16 - 3/8	167 482 900	2.00	-	-	167 482 966	15.00	-	-
20 - 1/2	167 482 901	3.00	167 482 945	4.00	167 482 967	16.00	168 480 260	32.00
25 - 3/4	167 482 902	3.00	167 482 946	5.00	167 482 968	18.00	168 480 261	33.00
32 - 1	167 482 903	4.00	167 482 947	6.00	167 482 969	21.00	168 480 262	33.00
40 - 1 1/4	167 482 904	5.00	167 482 948	8.00	167 482 970	26.00	168 480 263	38.00
50 - 1 1/2	167 482 905	6.00	167 482 949	9.00	167 482 971	29.00	168 480 264	40.00
63 - 2	167 482 906	9.00	167 482 950	15.00	167 482 972	35.00	168 480 265	40.00
75 - 2 1/2	167 482 907	27.00	167 482 951	42.00	-	-	-	-
90 - 3	167 482 908	32.00	167 482 952	49.00	-	-	-	-
110 - 4	167 482 909	42.00	167 482 953	60.00	-	-	-	-
d - Size [mm]-[inch]	PVDF							
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD		
16 - 3/8	175 483 025	15.00	-	-	175 483 058	19.00		
20 - 1/2	175 483 026	16.00	175 483 048	31.00	175 483 059	19.00		
25 - 3/4	175 483 027	20.00	175 483 049	36.00	175 483 060	20.00		
32 - 1	175 483 028	23.00	175 483 050	41.00	175 483 061	36.00		
40 - 1 1/4	175 483 029	35.00	175 483 051	45.00	175 483 062	59.00		
50 - 1 1/2	175 483 030	54.00	175 483 052	73.00	175 483 063	69.00		
63 - 2	175 483 031	85.00	175 483 053	96.00	175 483 064	90.00		

Please call Inside Sales for information on flanged valve ends

Type 375 True Union Ball Valve



PVC

Socket/Threaded NPT

A

Size [inch]	Socket (½" - 2" Socket/Threaded NPT)				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	161 375 002	45.00	161 375 017	52.00	161 375 062 ^	141.00	161 375 077 ^	149.00
¾	161 375 003	50.00	161 375 018	60.00	161 375 063 ^	140.00	161 375 078 ^	162.00
1	161 375 004	60.00	161 375 019	76.00	161 375 064 ^	152.00	161 375 079 ^	185.00
1 ¼	161 375 005	78.00	161 375 020	97.00	161 375 065 ^	162.00	161 375 080 ^	206.00
1 ½	161 375 006	91.00	161 375 021	123.00	161 375 066 ^	183.00	161 375 081 ^	226.00
2	161 375 007	131.00	161 375 022	170.00	161 375 067 ^	225.00	161 375 082 ^	283.00
2 ½	161 375 008	276.00	161 375 023	353.00	161 375 068 ^	357.00	161 375 083 ^	444.00
3	161 375 009	353.00	161 375 024	439.00	161 375 069 ^	457.00	161 375 084 ^	536.00
4	161 375 010	533.00	161 375 025	626.00	161 375 070 ^	685.00	161 375 085 ^	825.00
6	161 375 011	1,204.00	161 375 026	1,327.00	161 375 071 ^	1,215.00	161 375 086 ^	1,372.00

Size [inch]	Vented			
	EPDM	USD	FPM	USD
½	151 375 002	78.00	151 375 017	87.00
¾	151 375 003	85.00	151 375 018	94.00
1	151 375 004	94.00	151 375 019	111.00
1 ¼	151 375 005	111.00	151 375 020	133.00
1 ½	151 375 006	126.00	151 375 021	159.00
2	151 375 007	166.00	151 375 022	208.00
2 ½	151 375 008	318.00	151 375 023	395.00
3	151 375 009	395.00	151 375 024	484.00
4	151 375 010	580.00	151 375 025	677.00

All 6" valves are venturied from 4" Valve



CPVC

Socket/Threaded NPT

A

Size [inch]	Socket/Threaded NPT				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	163 375 002	49.00	163 375 017	72.00	163 375 062 ^	156.00	163 375 077 ^	178.00
¾	163 375 003	73.00	163 375 018	90.00	163 375 063 ^	179.00	163 375 078 ^	198.00
1	163 375 004	87.00	163 375 019	110.00	163 375 064 ^	209.00	163 375 079 ^	225.00
1 ¼	163 375 005	111.00	163 375 020	166.00	163 375 065 ^	218.00	163 375 080 ^	269.00
1½	163 375 006	145.00	163 375 021	185.00	163 375 066 ^	271.00	163 375 081 ^	319.00
2	163 375 007	218.00	163 375 022	270.00	163 375 067 ^	366.00	163 375 082 ^	428.00

Size [inch]	Vented			
	EPDM	USD	FPM	USD
½	153 375 002	81.00	153 375 017	104.00
¾	153 375 003	105.00	153 375 018	122.00
1	153 375 004	117.00	153 375 019	142.00
1 ¼	153 375 005	144.00	153 375 020	198.00
1½	153 375 006	176.00	153 375 021	212.00
2	153 375 007	246.00	153 375 022	298.00

Type 523 Metering Ball Valve



A

PVC and CPVC

Size [inch]	Socket/Threaded NPT							
	PVC				CPVC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 523 521	95.00	161 523 531	106.00	163 523 521	133.00	163 523 531	149.00
1/2	161 523 522	100.00	161 523 532	108.00	163 523 522	141.00	163 523 532	152.00



Socket Fusion Spigot



IR/Butt Fusion

A

PROGEF® Standard PP

d [mm]	Socket Fusion				Socket Fusion Spigot			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 523 401	163.00	167 523 411	177.00	167 523 441	163.00	167 523 451	177.00
20	167 523 402	163.00	167 523 412	177.00	167 523 442	163.00	167 523 452	177.00
d [mm]	IR/Butt Fusion							
	EPDM	USD	FPM	USD				
20	167 523 482	184.00	167 523 492	199.00				



Socket Fusion Spigot



IR/Butt Fusion

A

SYGEF® Standard PP

d [mm]	Socket Fusion		IR/Butt Fusion	
	FPM	USD	FPM	USD
16	175 523 411 *	354.00	-	-
20	175 523 412	376.00	175 523 492	514.00

Type 324 Laboratory Ball Cock Valve



Socket/Threaded NPT

A

PVC

Size [inch]	Socket		Threaded NPT	
	EPDM	USD	EPDM	USD
1/4	161 324 200	57.00	161 324 454	57.00

Type 353/355 COLORO Ball Valve

Type 355 COLORO True Union Ball Valve PVC

A

Size [inch]	Socket		Threaded NPT	
	EPDM	USD	EPDM	USD
½	161 355 382	26.00	161 355 362	26.00
¾	161 355 383	29.00	161 355 363	29.00
1	161 355 384	41.00	161 355 364	41.00
1 ¼	161 355 385	57.00	161 355 365	57.00
1 ½	161 355 386	70.00	161 355 366	70.00
2	161 355 387	89.00	161 355 367	90.00



Type 353 COLORO Compact Ball Valve PVC

A

Size [inch]	Socket	
	EPDM	USD
½	161 353 342	19.00
¾	161 353 343	19.00
1	161 353 344	26.00
1 ¼	161 353 345	36.00
1 ½	161 353 346	46.00
2	161 353 347	61.00



Spare Parts Type 353/355 COLORO Valve

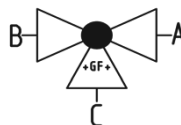


Handle

A

Size [inch]	Red	USD	Green	USD	Yellow	USD
½	167 481 160	3.00	167 481 145	4.00	167 481 155	4.00
¾	167 481 161	4.00	167 481 146	4.00	167 481 156	4.00
1	167 481 161	4.00	167 481 146	4.00	167 481 156	4.00
1 ¼	167 481 162	6.00	167 481 147	6.00	167 481 157	6.00
1 ½	167 481 162	6.00	167 481 147	6.00	167 481 157	6.00
2	167 481 163	6.00	167 481 148	6.00	167 481 158	6.00
Size [inch]	Black	USD	White	USD	Blue	USD
½	167 481 150	3.00	167 481 570	3.00	167 481 090	4.00
¾	167 481 151	4.00	167 481 571	3.00	167 481 091	4.00
1	167 481 151	4.00	167 481 571	3.00	167 481 091	4.00
1 ¼	167 481 152	8.00	167 481 572	5.00	167 481 092	6.00
1 ½	167 481 152	8.00	167 481 572	5.00	167 481 092	6.00
2	167 481 153	8.00	167 481 573	5.00	167 481 093	6.00

Type 543 Vertical 3-Way Ball Valve



A

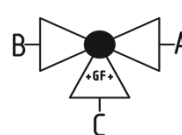
PVC

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 543 661	91.00	161 543 671	103.00	161 543 681	91.00	161 543 691	103.00
1/2	161 543 662	93.00	161 543 672	104.00	161 543 682	93.00	161 543 692	104.00
3/4	161 543 663	109.00	161 543 673	119.00	161 543 683	109.00	161 543 693	119.00
1	161 543 664	134.00	161 543 674	149.00	161 543 684	134.00	161 543 694	149.00
1 1/4	161 543 665	159.00	161 543 675	177.00	161 543 685	159.00	161 543 695	177.00
1 1/2	161 543 666	184.00	161 543 676	206.00	161 543 686	184.00	161 543 696	206.00
2	161 543 667	229.00	161 543 677	265.00	161 543 687	229.00	161 543 697	265.00

Diverter ball option available in Type 543 Vertical Spare Parts section under Ball Sets

Metric spigot branch end connector standard - Metric by ASTM coupling included with valve - Union connection available upon request

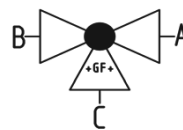
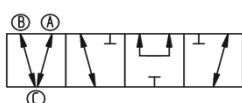
Type 543 Horizontal 3-Way Ball Valve



A

PVC

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 543 081	92.00	161 543 091	104.00	161 543 101	92.00	161 543 111	104.00
1/2	161 543 082	93.00	161 543 092	106.00	161 543 102	95.00	161 543 112	106.00
3/4	161 543 083	111.00	161 543 093	122.00	161 543 103	111.00	161 543 113	125.00
1	161 543 084	136.00	161 543 094	150.00	161 543 104	137.00	161 543 114	153.00
1 1/4	161 543 085	158.00	161 543 095	176.00	161 543 105	158.00	161 543 115	176.00
1 1/2	161 543 086	181.00	161 543 096	202.00	161 543 106	181.00	161 543 116	212.00
2	161 543 087	222.00	161 543 097	262.00	161 543 107	229.00	161 543 117	273.00



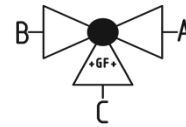
A

PVC

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 543 281	92.00	161 543 291	104.00	161 543 301	92.00	161 543 311	104.00
1/2	161 543 282	93.00	161 543 292	106.00	161 543 302	95.00	161 543 312	106.00
3/4	161 543 283	111.00	161 543 293	122.00	161 543 303	111.00	161 543 313	122.00
1	161 543 284	136.00	161 543 294	150.00	161 543 304	137.00	161 543 314	153.00
1 1/4	161 543 285	158.00	161 543 295	176.00	161 543 305	158.00	161 543 315	176.00
1 1/2	161 543 286	181.00	161 543 296	202.00	161 543 306	181.00	161 543 316	212.00
2	161 543 287	222.00	161 543 297	262.00	161 543 307	229.00	161 543 317	274.00

Type 543 Horizontal 3-Way Ball Valve

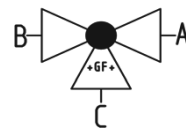
CPVC



A

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	163 543 081	176.00	163 543 091	194.00	163 543 101	176.00	163 543 111	194.00
1/2	163 543 082	176.00	163 543 092	194.00	163 543 102	176.00	163 543 112	194.00
3/4	163 543 083	212.00	163 543 093	224.00	163 543 103	212.00	163 543 113	224.00
1	163 543 084	260.00	163 543 094	279.00	163 543 104	260.00	163 543 114	279.00
1 1/4	163 543 085	301.00	163 543 095	329.00	163 543 105	301.00	163 543 115	329.00
1 1/2	163 543 086	345.00	163 543 096	385.00	163 543 106	345.00	163 543 116	385.00
2	163 543 087	427.00	163 543 097	491.00	163 543 107	427.00	163 543 117	491.00

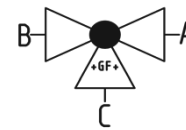
CPVC



A

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	163 543 281	176.00	163 543 291	194.00	163 543 301	176.00	163 543 311	194.00
1/2	163 543 282	176.00	163 543 292	194.00	163 543 302	176.00	163 543 312	194.00
3/4	163 543 283	212.00	163 543 293	224.00	163 543 303	212.00	163 543 313	224.00
1	163 543 284	260.00	163 543 294	279.00	163 543 304	260.00	163 543 314	279.00
1 1/4	163 543 285	301.00	163 543 295	329.00	163 543 305	301.00	163 543 315	329.00
1 1/2	163 543 286	345.00	163 543 296	385.00	163 543 306	345.00	163 543 316	385.00
2	163 543 287	427.00	163 543 297	491.00	163 543 307	427.00	163 543 317	491.00

PROGEF® Standard PP



A

d [mm]	L-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 543 001 *	167.00	167 543 011 *	199.00	-	-	-	-
20	167 543 002 ^	170.00	167 543 012 ^	203.00	167 543 062 ^	181.00	167 543 072 ^	219.00
25	167 543 003 ^	193.00	167 543 013 ^	236.00	167 543 063 ^	203.00	167 543 073 ^	251.00
32	167 543 004 ^	243.00	167 543 014 ^	301.00	167 543 064 ^	259.00	167 543 074 ^	316.00
40	167 543 005 ^	273.00	167 543 015 ^	330.00	167 543 065 ^	291.00	167 543 075 ^	353.00
50	167 543 006 ^	323.00	167 543 016 ^	401.00	167 543 066 ^	342.00	167 543 076 ^	426.00
63	167 543 007 ^	388.00	167 543 017 ^	501.00	167 543 067 ^	422.00	167 543 077 ^	543.00
Size [inch]	Threaded NPT							
	EPDM	USD	FPM	USD				
	EPDM	USD	FPM	USD				
3/8	167 543 161 *	177.00	167 543 171 *	216.00				
1/2	167 543 162 ^	181.00	167 543 172 ^	220.00				
3/4	167 543 163 ^	203.00	167 543 173 ^	251.00				
1	167 543 164 ^	259.00	167 543 174 ^	315.00				
1 1/4	167 543 165 ^	291.00	167 543 175 ^	353.00				
1 1/2	167 543 166 ^	342.00	167 543 176 ^	426.00				
2	167 543 167 ^	417.00	167 543 177 ^	543.00				



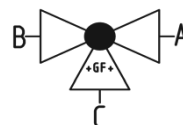
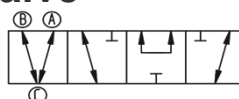
Socket Fusion/Threaded NPT



IR/Butt Fusion

Type 543 Horizontal 3-Way Ball Valve

PROGEF® Standard PP

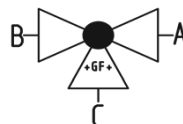


A

d [mm]	T-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 543 201 *	167.00	167 543 211 *	199.00	-	-	-	-
20	167 543 202 ^	170.00	167 543 212 ^	203.00	167 543 262 ^	181.00	167 543 272 ^	220.00
25	167 543 203 ^	193.00	167 543 213 ^	237.00	167 543 263 ^	203.00	167 543 273 ^	251.00
32	167 543 204 ^	243.00	167 543 214 ^	301.00	167 543 264 ^	259.00	167 543 274 ^	315.00
40	167 543 205 ^	273.00	167 543 215 ^	330.00	167 543 265 ^	291.00	167 543 275 ^	353.00
50	167 543 206 ^	323.00	167 543 216 ^	398.00	167 543 266 ^	342.00	167 543 276 ^	426.00
63	167 543 207 ^	388.00	167 543 217 ^	502.00	167 543 267 ^	418.00	167 543 277 ^	543.00

Size [inch]	Threaded NPT							
	EPDM	USD	FPM	USD				
3/8	167 543 361 *	158.00	167 543 371 *	187.00	 Socket Fusion/Threaded NPT  IR/Butt Fusion			
1/2	167 543 362 ^	158.00	167 543 372 ^	187.00				
3/4	167 543 363 ^	175.00	167 543 373 ^	220.00				
1	167 543 364 ^	229.00	167 543 374 ^	292.00				
1 1/4	167 543 365 ^	292.00	167 543 375 ^	414.00				
1 1/2	167 543 366 ^	389.00	167 543 376 ^	540.00				
2	167 543 367 ^	442.00	167 543 377 ^	688.00				

SYGEF® Standard PVDF

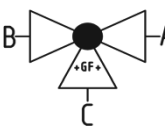
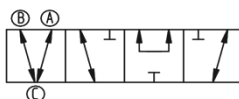


A

d - Size [mm]-[Inch]	L-port					
	Socket Fusion		IR/Butt Fusion		Threaded NPT	
	FPM	USD	FPM	USD	FPM	USD
16 - 3/8	175 543 011 *	400.00	-	-	175 543 071 *	451.00
20 - 1/2	175 543 012 ^	422.00	175 543 052 ^	465.00	175 543 072 ^	465.00
25 - 3/4	175 543 013 ^	509.00	175 543 053 ^	567.00	175 543 073 ^	567.00
32 - 1	175 543 014 ^	666.00	175 543 054 ^	742.00	175 543 074 ^	742.00
40 - 1 1/4	175 543 015 ^	777.00	175 543 055 ^	902.00	175 543 075 ^	902.00
50 - 1 1/2	175 543 016 ^	1,015.00	175 543 056 ^	1,190.00	175 543 076 ^	1,190.00
63 - 2	175 543 017 ^	1,422.00	175 543 057 ^	1,552.00	175 543 077 ^	1,552.00



SYGEF® Standard PVDF



A

d [mm]	T-port					
	Socket Fusion		IR/Butt Fusion		Threaded NPT	
	FPM	USD	FPM	USD	FPM	USD
16	175 543 111 *	400.00	-	-	175 543 171 *	451.00
20	175 543 112 ^	422.00	175 543 152 ^	465.00	175 543 172 ^	465.00
25	175 543 113 ^	509.00	175 543 153 ^	567.00	175 543 173 ^	567.00
32	175 543 114 ^	666.00	175 543 154 ^	742.00	175 543 174 ^	742.00
40	175 543 115 ^	777.00	175 543 155 ^	902.00	175 543 175 ^	902.00
50	175 543 116 ^	1,015.00	175 543 156 ^	1,190.00	175 543 176 ^	1,190.00
63	175 543 117 ^	1,422.00	175 543 157 ^	1,552.00	175 543 177 ^	1,552.00



Spare Parts Type 543 Ball Valve - Vertical

Ball Set - Vertical

A

Size [inch]	L-Port				Diverter			
	PVC/EPDM	USD	PVC/FPM	USD	PVC/EPDM	USD	PVC/FPM	USD
3/8	161 488 202	55.00	161 488 212	60.00	161 488 222	55.00	161 488 232	60.00
1/2	161 488 202	55.00	161 488 212	60.00	161 488 222	55.00	161 488 232	60.00
3/4	161 488 203	64.00	161 488 213	72.00	161 488 223	64.00	161 488 233	72.00
1	161 488 204	77.00	161 488 214	85.00	161 488 224	77.00	161 488 234	85.00
1 1/4	161 488 205	90.00	161 488 215	100.00	161 488 225	90.00	161 488 235	100.00
1 1/2	161 488 206	104.00	161 488 216	112.00	161 488 226	104.00	161 488 236	112.00
2	161 488 207	131.00	161 488 217	142.00	161 488 227	131.00	161 488 237	142.00

Ball set consists of: handle, ball, stem, ball-, backing-, body- and stem seal



Standard Handle

Lockable Handle

Handle - Vertical

A

Size [inch]	Standard Handle				Lockable Multifunction Handle			
	L-port Red	USD	Diverter Red	USD	L-port Red	USD	Diverter Red	USD
3/8	167 484 688	11.00	167 484 788	11.00	167 484 642	42.00	167 484 742	42.00
1/2	167 484 688	11.00	167 484 788	11.00	167 484 642	42.00	167 484 742	42.00
3/4	167 484 689	11.00	167 484 789	11.00	167 484 643	44.00	167 484 743	44.00
1	167 484 690	14.00	167 484 790	14.00	167 484 644	48.00	167 484 744	48.00
1 1/4	167 484 691	15.00	167 484 791	15.00	167 484 645	54.00	167 484 745	54.00
1 1/2	167 484 692	16.00	167 484 792	16.00	167 484 646	59.00	167 484 746	59.00
2	167 484 693	20.00	167 484 793	20.00	167 484 647	65.00	167 484 747	65.00

Seal Set - Vertical

A

Size [inch]	EPDM	USD	FPM	USD
3/8	161 486 400	31.00	161 486 410	34.00
1/2	161 486 400	31.00	161 486 410	34.00
3/4	161 486 401	35.00	161 486 411	48.00
1	161 486 402	43.00	161 486 412	61.00
1 1/4	161 486 403	50.00	161 486 413	84.00
1 1/2	161 486 404	60.00	161 486 414	91.00
2	161 486 405	71.00	161 486 415	132.00



Seal set consists of: backing-, body-, face-, and stem seal

Spare Parts Type 543 Ball Valve - Vertical and Horizontal



Face Seal

A

d - Size [mm]-[Size]	EPDM	USD	FPM	USD
16 - 3/8	748 410 059	2.00	749 410 059	3.00
20 - 1/2	748 410 059	2.00	749 410 059	3.00
25 - 3/4	748 410 106	2.00	749 410 106	3.00
32 - 1	748 410 151	3.00	749 410 151	14.00
40 - 1 1/4	748 410 062	5.00	749 410 062	21.00
50 - 1 1/2	748 410 003	5.00	749 410 003	22.00
63 - 2	748 410 231	5.00	749 410 231	26.00

Turn Limiter

A

d - Size [mm]-[Size]	Part No.	USD
16 - 3/8	167 482 479	3.00
20 - 1/2	167 482 479	3.00
25 - 3/4	167 482 480	3.00
32 - 1	167 482 480	3.00
40 - 1 1/4	167 482 481	3.00
50 - 1 1/2	167 482 481	3.00
63 - 2	167 482 482	3.00

Spare Parts Type 543 Ball Valve - Horizontal

Ball Set - Horizontal / L-port

C

Size [inch]	PVC/EPDM	USD	PVC/FPM	USD	CPVC/EPDM	USD	CPVC/FPM	USD
3/8	161 488 162	57.00	161 488 172	58.00	163 481 982	77.00	163 481 992	77.00
1/2	161 488 162	57.00	161 488 172	58.00	163 481 982	77.00	163 481 992	77.00
3/4	161 488 163	65.00	161 488 173	66.00	163 481 983	90.00	163 481 993	90.00
1	161 488 164	66.00	161 488 174	70.00	163 481 984	92.00	163 481 994	93.00
1 1/4	161 488 165	71.00	161 488 175	74.00	163 481 985	96.00	163 481 995	103.00
1 1/2	161 488 166	81.00	161 488 176	85.00	163 481 986	110.00	163 481 996	117.00
2	161 488 167	88.00	161 488 177	90.00	163 481 987	118.00	163 481 997	122.00
d [mm]	PP/EPDM	USD	PP/FPM	USD	PVDF/FPM	USD		
16	167 484 882	58.00	167 484 892	58.00	175 483 642			
20	167 484 882	58.00	167 484 892	58.00	175 483 642			
25	167 484 883	65.00	167 484 893	68.00	175 483 643			
32	167 484 884	68.00	167 484 894	72.00	175 483 644			
40	167 484 885	72.00	167 484 895	75.00	175 483 645			
50	167 484 886	80.00	167 484 896	87.00	175 483 646			
63	167 484 887	87.00	167 484 897	88.00	175 483 647			

Ball set consists of ball, stem, seats, and internal seals

Ball Set - Horizontal / T-port

C

Size [inch]	PVC/EPDM	USD	PVC/FPM	USD	CPVC/EPDM	USD	CPVC/FPM	USD
3/8	161 488 182	55.00	161 488 192	55.00	163 482 002	77.00	163 482 012	77.00
1/2	161 488 182	55.00	161 488 192	55.00	163 482 002	77.00	163 482 012	77.00
3/4	161 488 183	62.00	161 488 193	64.00	163 482 003	90.00	163 482 013	90.00
1	161 488 184	64.00	161 488 194	66.00	163 482 004	92.00	163 482 014	93.00
1 1/4	161 488 185	68.00	161 488 195	72.00	163 482 005	96.00	163 482 015	103.00
1 1/2	161 488 186	77.00	161 488 196	81.00	163 482 006	110.00	163 482 016	117.00
2	161 488 187	82.00	161 488 197	85.00	163 482 007	118.00	163 482 017	122.00
d [mm]	PP/EPDM	USD	PP/FPM	USD	PVDF/FPM	USD		
16	167 484 902	58.00	167 484 912	58.00	175 483 652			
20	167 484 902	58.00	167 484 912	58.00	175 483 652			
25	167 484 903	65.00	167 484 913	68.00	175 483 653			
32	167 484 904	68.00	167 484 914	72.00	175 483 654			
40	167 484 905	72.00	167 484 915	75.00	175 483 655			
50	167 484 906	80.00	167 484 916	87.00	175 483 656			
63	167 484 907	87.00	167 484 917	88.00	175 483 657			

Ball set consists of ball, stem, seats, and internal seals

Spare Parts Type 543 Ball Valve

Handle - Horizontal



C

d - Size [mm]-[Size]	Standard Handle							
	L-port Red	USD	L-port Black	USD	T-port Red	USD	T-port Black	USD
16 - 3/8	167 484 488	11.00	167 484 376	14.00	167 484 588	11.00	167 484 576	14.00
20 - 1/2	167 484 488	11.00	167 484 376	14.00	167 484 588	11.00	167 484 576	14.00
25 - 3/4	167 484 489	11.00	167 484 377	14.00	167 484 589	11.00	167 484 577	14.00
32 - 1	167 484 490	14.00	167 484 378	15.00	167 484 590	14.00	167 484 578	15.00
40 - 1 1/4	167 484 491	15.00	167 484 379	16.00	167 484 591	15.00	167 484 579	16.00
50 - 1 1/2	167 484 492	16.00	167 484 380	20.00	167 484 592	16.00	167 484 580	20.00
63 - 2	167 484 493	20.00	167 484 381	21.00	167 484 593	20.00	167 484 581	21.00

d - Size [mm]-[Size]	Multifunction Handle, Lockable			
	L-port Red	USD	T-port Red	USD
16 - 3/8	167 484 442	42.00	167 484 542	42.00
20 - 1/2	167 484 442	42.00	167 484 542	42.00
25 - 3/4	167 484 443	44.00	167 484 543	44.00
32 - 1	167 484 444	48.00	167 484 544	48.00
40 - 1 1/4	167 484 445	54.00	167 484 545	54.00
50 - 1 1/2	167 484 446	59.00	167 484 546	59.00
63 - 2	167 484 447	65.00	167 484 547	65.00

Seal Set - Horizontal

C

d - Size [mm]-[Size]	EPDM	USD	FPM	USD
16 - 3/8	161 488 242	31.00	161 488 248	44.00
20 - 1/2	161 488 242	31.00	161 488 248	44.00
25 - 3/4	161 488 243	32.00	161 488 249	47.00
32 - 1	161 488 244	41.00	161 488 250	68.00
40 - 1 1/4	161 488 245	43.00	161 488 251	66.00
50 - 1 1/2	161 488 246	44.00	161 488 252	81.00
63 - 2	161 488 247	54.00	161 488 253	82.00



Seal set consists of: backing-, body-, face-, and stem seal

Type 567 Wafer Style Butterfly Valve

PVC

A

d - Size [mm]-[inch]	Bare Shaft				Lever			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	161 567 802	182.00	161 567 822	304.00	161 567 002	210.00	161 567 022	331.00
75 - 2 ½	161 567 803	193.00	161 567 823	309.00	161 567 003	219.00	161 567 023	338.00
90 - 3	161 567 804	203.00	161 567 824	320.00	161 567 004	233.00	161 567 024	351.00
110 - 4	161 567 805	219.00	161 567 825	349.00	161 567 005	252.00	161 567 025	382.00
140 - 5	161 567 806	316.00	161 567 826	488.00	161 567 006	363.00	161 567 026	535.00
160 - 6	161 567 807	316.00	161 567 827	488.00	161 567 007	363.00	161 567 027	535.00
225 - 8	161 567 808	410.00	161 567 828	632.00	161 567 008	542.00	161 567 028	693.00
280 - 10	161 567 809	1,804.00	161 567 829	2,679.00	161 567 009	1,932.00	161 567 029	2,854.00
315 - 12	161 567 810	2,474.00	161 567 830	3,417.00	161 567 010	2,642.00	161 567 030	3,582.00
355 - 14	161 567 811 *	Call	161 567 831 *	Call	-	-	-	-
400 - 16	161 567 812 *	Call	161 567 832 *	Call	-	-	-	-

d - Size [mm]-[inch]	Gear							
	EPDM	USD	FPM	USD				
63 - 2	161 567 042	476.00	161 567 062	620.00	 Bare Shaft Lever Gear			
75 - 2 ½	161 567 043	487.00	161 567 063	626.00				
90 - 3	161 567 044	499.00	161 567 064	639.00				
110 - 4	161 567 045	515.00	161 567 065	668.00				
140 - 5	161 567 046	614.00	161 567 066	810.00				
160 - 6	161 567 047	614.00	161 567 067	810.00				
225 - 8	161 567 048	712.00	161 567 068	960.00				
280 - 10	161 567 049	2,191.00	161 567 069	3,479.00				
315 - 12	161 567 050	2,938.00	161 567 070	4,292.00				
355 - 14	161 567 051 *	Call	161 567 071 *	Call				
400 - 16	161 567 052 *	Call	161 567 072 *	Call				

CPVC

A

d - Size [mm]-[inch]	Bare Shaft				Lever			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	163 567 802	350.00	163 567 822	431.00	163 567 002	404.00	163 567 022	565.00
75 - 2 ½	163 567 803	392.00	163 567 823	502.00	163 567 003	446.00	163 567 023	613.00
90 - 3	163 567 804	476.00	163 567 824	589.00	163 567 004	494.00	163 567 024	720.00
110 - 4	163 567 805	556.00	163 567 825	682.00	163 567 005	577.00	163 567 025	833.00
140 - 5	163 567 806	796.00	163 567 826	895.00	163 567 006	788.00	163 567 026	1,094.00
160 - 6	163 567 807	796.00	163 567 827	895.00	163 567 007	788.00	163 567 027	1,094.00
225 - 8	163 567 808	1,030.00	163 567 828	1,160.00	163 567 008	1,018.00	163 567 028	1,416.00

d - Size [mm]-[inch]	Gear							
	EPDM	USD	FPM	USD				
63 - 2	163 567 042	654.00	163 567 062	760.00	 Bare Shaft Lever Gear			
75 - 2 ½	163 567 043	699.00	163 567 063	832.00				
90 - 3	163 567 044	787.00	163 567 064	923.00				
110 - 4	163 567 045	869.00	163 567 065	1,022.00				
140 - 5	163 567 046	1,123.00	163 567 066	1,227.00				
160 - 6	163 567 047	1,123.00	163 567 067	1,227.00				
225 - 8	163 567 048	1,367.00	163 567 068	1,503.00				

PTFE seals available upon request - Please call Insides Sales for pricing

Type 567 Wafer Style Butterfly Valve

PROGEF® Standard PP

A

d - Size [mm]-[inch]	Bare Shaft				Lever			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	167 567 802	305.00	167 567 822	394.00	167 567 002	293.00	167 567 022	368.00
75 - 2 ½	167 567 803	327.00	167 567 823	422.00	167 567 003	326.00	167 567 023	398.00
90 - 3	167 567 804	365.00	167 567 824	467.00	167 567 004	367.00	167 567 024	440.00
110 - 4	167 567 805	441.00	167 567 825	567.00	167 567 005	444.00	167 567 025	561.00
140 - 5	167 567 806	631.00	167 567 826	873.00	167 567 006	633.00	167 567 026	820.00
160 - 6	167 567 807	631.00	167 567 827	873.00	167 567 007	633.00	167 567 027	820.00
225 - 8	167 567 808	812.00	167 567 828	1,020.00	167 567 008	816.00	167 567 028	957.00
280 - 10	167 567 809	2,668.00	167 567 829	3,153.00	167 567 009	2,808.00	167 567 029	3,273.00
315 - 12	167 567 810	3,375.00	167 567 830	4,006.00	167 567 010	3,478.00	167 567 030	4,073.00
355 - 14	167 567 811 *	8,241.00	167 567 831 *	11,839.00	-	-	-	-
400 - 16	167 567 812 *	12,452.00	167 567 832 *	12,235.00	-	-	-	-
450 - 18	167 567 813 *	15,146.00	167 567 833 *	16,662.00	-	-	-	-
500 - 20	167 567 814 *	18,913.00	167 567 834 *	21,920.00	-	-	-	-
630 - 24	167 567 815 *	24,819.00	167 567 835 *	27,936.00	-	-	-	-

d - Size [mm]-[inch]	Gear				
	EPDM	USD	FPM	USD	
63 - 2	167 567 042	776.00	167 567 062	832.00	 Bare Shaft Lever Gear
75 - 2 ½	167 567 043	818.00	167 567 063	866.00	
90 - 3	167 567 044	856.00	167 567 064	935.00	
110 - 4	167 567 045	935.00	167 567 065	1,020.00	
140 - 5	167 567 046	1,011.00	167 567 066	1,257.00	
160 - 6	167 567 047	1,011.00	167 567 067	1,257.00	
225 - 8	167 567 048	1,162.00	167 567 068	1,457.00	
280 - 10	167 567 049	3,080.00	167 567 069	3,558.00	
315 - 12	167 567 050	3,750.00	167 567 070	4,346.00	
355 - 14	167 567 051 *	8,199.00	167 567 071 *	11,695.00	
400 - 16	167 567 052 *	13,263.00	167 567 072 *	13,866.00	
450 - 18	167 567 053 *	15,327.00	167 567 073 *	16,843.00	
500 - 20	167 567 054 *	19,095.00	167 567 074 *	22,101.00	
630 - 24	167 567 055 *	25,003.00	167 567 075 *	28,116.00	

PTFE seals available upon request - Please call Insides Sales for pricing

Type 567 Wafer Style Butterfly Valve

SYGEF® Standard PVDF

A

d - Size [mm]-[inch]	Bare Shaft				Lever			
	FPM	USD	PTFE	USD	FPM	USD	PTFE	USD
63 - 2	175 567 822	789.00	175 567 842	984.00	175 567 002	957.00	175 567 202 ^	1,110.00
75 - 2 ½	175 567 823	973.00	175 567 843	1,211.00	175 567 003 ^	1,097.00	175 567 203 ^	1,271.00
90 - 3	175 567 824	1,186.00	175 567 844	1,476.00	175 567 004	1,331.00	175 567 204 ^	1,543.00
110 - 4	175 567 825	1,406.00	175 567 845	1,752.00	175 567 005	1,584.00	175 567 205 ^	1,838.00
140 - 5	175 567 826	2,195.00	175 567 846	2,735.00	175 567 006 ^	2,472.00	175 567 206 ^	2,834.00
160 - 6	175 567 827	2,195.00	175 567 847	2,735.00	175 567 007 ^	2,472.00	175 567 207 ^	2,834.00
225 - 8	175 567 828	2,876.00	175 567 848	3,585.00	175 567 008 ^	3,242.00	175 567 208 ^	3,632.00
280 - 10	175 567 829	5,556.00	175 567 849	8,035.00	175 567 009 ^	5,547.00	175 567 209 ^	7,800.00
315 - 12	175 567 830	7,033.00	175 567 850	10,185.00	175 567 010 ^	6,947.00	175 567 210 ^	9,832.00

d - Size [mm]-[inch]	Gear			
	FPM	USD	PTFE	USD
63 - 2	175 567 022	1,314.00	175 567 222 ^	1,472.00
75 - 2 ½	175 567 023 ^	1,476.00	175 567 223 ^	1,628.00
90 - 3	175 567 024	1,700.00	175 567 224 ^	1,878.00
110 - 4	175 567 025	1,866.00	175 567 225 ^	2,066.00
140 - 5	175 567 026 ^	2,585.00	175 567 226 ^	2,850.00
160 - 6	175 567 027 ^	2,585.00	175 567 227 ^	2,850.00
225 - 8	175 567 028 ^	3,230.00	175 567 228 ^	3,654.00
280 - 10	175 567 029 ^	5,840.00	175 567 229 ^	7,856.00
315 - 12	175 567 030 ^	7,481.00	175 567 230 ^	9,887.00





Bare Shaft
Lever
Gear

Type 563 Aqua Butterfly Valve

PVC/EPDM

A

d - Size [mm]-[inch]	Lever	USD	Gear	USD
63 - 2	161 563 002	138.00	161 563 042	405.00
75 - 2 ½	161 563 003	151.00	161 563 043	412.00
90 - 3	161 563 004	159.00	161 563 044	422.00
110 - 4	161 563 005	179.00	161 563 045	437.00
140 - 5	161 563 006	255.00	-	-
160 - 6	161 563 007	255.00	161 563 047	520.00
225 - 8	161 563 008	402.00	161 563 048	604.00
280 - 10	161 563 009	920.00	161 563 049	981.00
315 - 12	161 563 010	1,349.00	161 563 050	1,472.00




Lever
Gear

For water use only

Type 578 Lug Style Butterfly Valve



Bare Shaft

Lever

Gear

A

PVC

Size [inch]	Lever				Gear			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	161 578 102	616.00	161 578 122	725.00	161 578 142	1,033.00	161 578 162	1,148.00
2 ½	161 578 103	637.00	161 578 123	749.00	161 578 143	1,070.00	161 578 163	1,189.00
3	161 578 104	637.00	161 578 124	749.00	161 578 144	1,081.00	161 578 164	1,201.00
4	161 578 105	1,081.00	161 578 125	1,243.00	161 578 145	1,491.00	161 578 165	1,657.00
5	161 578 106	1,408.00	161 578 126	1,656.00	161 578 146	1,800.00	161 578 166	2,000.00
6	161 578 107	1,408.00	161 578 127	1,656.00	161 578 147	1,811.00	161 578 167	2,012.00
8	161 578 108	1,902.00	161 578 128	2,238.00	161 578 148	2,131.00	161 578 168	2,368.00
10	161 578 109	3,721.00	161 578 129	4,378.00	161 578 149	3,958.00	161 578 169	4,656.00
12	161 578 110	4,465.00	161 578 130	5,253.00	161 578 150	4,750.00	161 578 170	5,938.00

CPVC

A

Size [inch]	Lever				Gear			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	163 578 102	880.00	163 578 122	1,100.00	163 578 142	1,098.00	163 578 162	1,222.00
2 ½	163 578 103	910.00	163 578 123	1,138.00	163 578 143	1,355.00	163 578 163	1,517.00
3	163 578 104	910.00	163 578 124	1,138.00	163 578 144	1,355.00	163 578 164	1,517.00
4	163 578 105	1,544.00	163 578 125	1,930.00	163 578 145	1,716.00	163 578 165	2,144.00
5	163 578 106	2,011.00	163 578 126	2,514.00	163 578 146	2,234.00	163 578 166	2,793.00
6	163 578 107	2,011.00	163 578 127	2,514.00	163 578 147	2,234.00	163 578 167	2,793.00
8	163 578 108	2,717.00	163 578 128	3,396.00	163 578 148	3,019.00	163 578 168	3,773.00
10	163 578 109	7,752.00	163 578 129	9,690.00	163 578 149	8,613.00	163 578 169	10,767.00
12	163 578 110	8,930.00	163 578 130	10,506.00	163 578 150	9,922.00	163 578 170	11,673.00

PTFE seals available upon request - Please call Inside Sales for pricing

Type 578 Lug Style Butterfly Valve



Bare Shaft

Lever

Gear

PROGEF® Standard PP

A

Size [inch]	Lever				Gear			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	167 578 102	918.00	167 578 122	980.00	167 578 142	1,147.00	167 578 162	1,225.00
2 ½	167 578 103	1,115.00	167 578 123	1,245.00	167 578 143	1,312.00	167 578 163	1,465.00
3	167 578 104	1,194.00	167 578 124	1,274.00	167 578 144	1,405.00	167 578 164	1,499.00
4	167 578 105	1,528.00	167 578 125	1,616.00	167 578 145	1,698.00	167 578 165	1,796.00
5	167 578 106	2,246.00	167 578 126	2,901.00	167 578 146	2,364.00	167 578 166	3,054.00
6	167 578 107	2,246.00	167 578 127	2,901.00	167 578 147	2,364.00	167 578 167	3,054.00
8	167 578 108	2,899.00	167 578 128	3,167.00	167 578 148	3,052.00	167 578 168	3,334.00
10	167 578 109	4,377.00	167 578 129	5,182.00	167 578 149	4,607.00	167 578 169	5,557.00
12	167 578 110	5,306.00	167 578 130	6,688.00	167 578 150	5,585.00	167 578 170	7,040.00

PTFE seals available upon request - Please call Inside Sales for pricing

SYGEF® Standard PVDF

A

Size [inch]	Lever				Gear			
	FPM	USD	PTFE/FPM	USD	FPM	USD	PTFE/FPM	USD
2	175 578 102	1,411.00	175 578 302	1,693.00	175 578 122	1,485.00	175 578 322	1,782.00
2 ½	175 578 103	1,961.00	175 578 303	2,000.00	175 578 123	2,064.00	175 578 323	2,105.00
3	175 578 104	1,961.00	175 578 304	2,353.00	175 578 124	2,064.00	175 578 324	2,477.00
4	175 578 105	2,269.00	175 578 305	2,819.00	175 578 125	2,388.00	175 578 325	2,967.00
5	175 578 106	3,449.00	175 578 306	4,796.00	175 578 126	3,631.00	175 578 326	5,048.00
6	175 578 107	3,449.00	175 578 307	4,796.00	175 578 127	3,631.00	175 578 327	5,048.00
8	175 578 108	4,323.00	175 578 308	7,797.00	175 578 128	4,550.00	175 578 328	8,207.00
10	175 578 109	7,730.00	175 578 309	12,062.00	175 578 129	9,101.00	175 578 329	12,697.00
12	175 578 110	9,276.00	175 578 310	15,286.00	175 578 130	10,921.00	175 578 330	16,090.00

Accessories Type 563/567/578 Butterfly Valve

Integrated Position Indicator

C

d	Size	Mechanical Limit Switches					
[mm]	[inch]	Au	USD	Ag Ni	USD		
63 - 90	2 - 3	161 486 858	287.00	161 486 859	287.00		
110 - 140	4 - 5	161 486 304	287.00	161 486 305	287.00		
160 - 225	6 - 8	161 486 009	287.00	161 486 010	287.00		
d	Size	Inductive Limit Switches					
[mm]	[inch]	Namur	USD	PNP	USD	NPN	USD
63 - 90	2 - 3	161 486 855	662.00	161 486 856	643.00	161 486 857	662.00
110 - 140	4 - 5	161 486 301	662.00	161 486 302	643.00	161 486 303	662.00
160 - 225	6 - 8	161 486 006	662.00	161 486 007	643.00	161 486 008	662.00

Butterfly Valve Chain Operator

C

d [mm]	Size [inch]	Description	Part No.	USD
63 - 315	2 - 12	Chain Operator Kit	150 101 626	196.00
63 - 315	2 - 12	20 feet of chain (adjustable)	150 101 617	45.00
63 - 225	2 - 8	Wheel	150 101 609	41.00
280 - 315	10 - 12	Wheel	150 101 610	41.00
all sizes		Chain price per foot	-	2.00

Handle

A

d [mm]	Size [inch]	Standard	USD	with Fine Adjustment	USD	 Standard Handle
63	2	161 486 690	71.00	161 486 325	105.00	
75	2 ½	161 486 690	71.00	161 486 325	105.00	
90	3	161 486 690	71.00	161 486 325	105.00	
110	4	161 486 691	82.00	161 486 326	112.00	
140	5	161 486 691	82.00	161 486 326	112.00	 Handle with Fine Adjustment
160	6	161 486 694	97.00	161 486 327	112.00	
225	8	161 486 695	126.00	161 486 328	225.00	
280	10	161 486 697	245.00	-	-	
315	12	161 486 697	245.00	-	-	

Accessories Type 563/567/578 Butterfly Valve

Handle Extension

C

d [mm]	Size [inch]	Description	SS 316	USD
63 - 90	2 - 3	1st foot	150 567 001	592.00
110 - 140	4 - 5	1st foot	150 567 002	592.00
160	6	1st foot	150 567 003	592.00
225	8	1st foot	150 567 004	592.00
280 - 315	10 - 12	1st foot	150 567 005	592.00
all sizes		Price per additional foot	-	115.00



Minimum length of 6 inches

2" Square Operating Nut

C

d [mm]	Size [inch]	Anodized Aluminum	USD
63 - 90	2 - 3	150 900 454	162.00
110 - 140	4 - 5	150 900 456	162.00
160 - 225	6 - 8	150 900 457	102.00
280 - 315	10 - 12	150 900 459	102.00



Spare Parts Type 563/567/578 Butterfly Valve

Shaft Set

A

d [mm]	Size [inch]	SS 304	USD	SS 316	USD
63	2	161 486 899	98.00	161 486 545	96.00
75	2 ½	161 486 900	104.00	161 486 546	106.00
90	3	161 486 901	108.00	161 486 547	117.00
110	4	161 486 902	111.00	161 486 548	134.00
140	5	161 486 903	144.00	-	Call
160	6	161 486 904	150.00	161 486 550	148.00
225	8	161 486 905	182.00	161 486 551	162.00
280	10	161 486 906	255.00	161 486 552	474.00
315	12	161 486 907	298.00	161 486 553	591.00
355	14	161 486 908	Call	-	Call
400	16	161 486 909	Call	-	Call
450	18	161 486 926	Call	-	Call
500	20	161 486 927	Call	-	Call
630	24	161 486 928	Call	-	Call



SS 304 shaft standard

SS 304 shaft set consists of: shaft, retention rings and washer

SS 316 shaft set consists of shaft only

Alternative materials available upon request

VFA Butterfly Valve

PVC with EPDM/Santoprene

A

Size [inch]	Lever		Gear		
	Part No.	USD	Part No.	USD	
2 ½	VFA02D750	95.00	VFA11D750	156.00	 Lever Gear
3	VFA02D900	105.00	VFA11D900	173.00	
4	VFA02D910	117.00	VFA11D910	204.00	
5	VFA02D920	133.00	VFA11D920	209.00	
6	VFA02D940	161.00	VFA11D940	222.00	
8	VFA02D960	240.00	VFA11D960	288.00	

Type 365 HP Lug Style Butterfly Valve

PFA/PTFE

B

Size [inch]	Lever		Gear		
	Part No.	USD	Part No.	USD	
2	160 365 318 *	1,688.00	-	-	 Lever
3	160 365 320 *	1,970.00	160 365 500 *	2,117.00	
4	160 365 321 *	2,082.00	160 365 501 *	2,238.00	
6	160 365 323 *	2,983.00	160 365 503 *	3,208.00	
8	-	-	160 365 504 *	4,671.00	
10	-	-	160 365 505 *	6,359.00	
12	-	-	160 365 506 *	7,879.00	

PVC Diaphragm Valve



514 Socket



517 Flanged



317 Flanged

Type 514 PVC

A

Size [inch]	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	161 514 612	122.00	161 514 662	190.00	161 514 632	200.00
¾	161 514 613	135.00	161 514 663	202.00	161 514 633	212.00
1	161 514 614	173.00	161 514 664	294.00	161 514 634	309.00
1 ¼	161 514 615	268.00	161 514 665	402.00	161 514 635	422.00
1 ½	161 514 616	271.00	161 514 666	402.00	161 514 636	422.00
2	161 514 617	310.00	161 514 667	491.00	161 514 637	517.00

Type 517 PVC

A

Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	161 517 612	156.00	161 517 662	259.00	161 517 632	272.00
¾	161 517 613	179.00	161 517 663	284.00	161 517 633	299.00
1	161 517 614	219.00	161 517 664	365.00	161 517 634	384.00
1 ¼	161 517 615	331.00	161 517 665	464.00	161 517 635	488.00
1 ½	161 517 616	350.00	161 517 666	468.00	161 517 636	492.00
2	161 517 617	409.00	161 517 667	578.00	161 517 637	609.00

The Type 517's revolutionary threaded bonnet design eliminates need for body bolts

Type 317 PVC

A

Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	161 317 623 ^	592.00	161 317 668 ^	870.00	161 317 638 ^	916.00
3	161 317 024 ^	785.00	161 317 069 ^	1,163.00	161 317 039 ^	1,224.00
4	161 317 325 ^	1,094.00	161 317 370 ^	1,640.00	161 317 340 ^	1,726.00
6	161 317 027 ^	2,807.00	161 317 072 ^	4,202.00	161 317 042 ^	4,424.00

The Type 317 utilizes the classic body bolt design

Adding an Electric Feedback Module to a diaphragm valve is a simple way to read a valve's position and avoid costly mistakes



CPVC Diaphragm Valve



514 Socket

Type 514 CPVC

A

Size [inch]	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 514 612	219.00	163 514 662	289.00	163 514 632	305.00
¾	163 514 613	237.00	163 514 663	319.00	163 514 633	336.00
1	163 514 614	304.00	163 514 664	400.00	163 514 634	420.00
1 ¼	163 514 615	392.00	163 514 665	492.00	163 514 635	518.00
1 ½	163 514 616	428.00	163 514 666	554.00	163 514 636	583.00
2	163 514 617	457.00	163 514 667	624.00	163 514 637	657.00



517 Flanged

Type 517 CPVC

A

Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 517 712	256.00	163 517 762	334.00	163 517 732	351.00
¾	163 517 713	285.00	163 517 763	361.00	163 517 733	379.00
1	163 517 714	354.00	163 517 764	473.00	163 517 734	497.00
1 ¼	163 517 715	453.00	163 517 765	604.00	163 517 735	636.00
1 ½	163 517 716	459.00	163 517 766	706.00	163 517 736	743.00
2	163 517 717	514.00	163 517 767	791.00	163 517 737	832.00

The Type 517's revolutionary threaded bonnet design eliminates need for body bolts



317 Flanged

Type 317 CPVC

A

Size [inch]	Flanged				
	EPDM	USD	PTFE/EPDM	USD	
2 ½	163 317 623 ^	943.00	163 317 638 ^	1,625.00	
3	163 317 024 ^	1,440.00	163 317 039 ^	2,201.00	
4	163 317 325 ^	1,927.00	163 317 340 ^	2,912.00	

The Type 317 utilizes the classic body bolt design

PROGEF® Standard PP Diaphragm Valve



514 Socket Fusion Union



514 IR/Butt Fusion Union

Type 514 PROGEF® Standard PP

A

d [mm]	514 Socket Fusion Union							
	NBR	USD	EPDM	USD	FPM	USD	PTFE/EPDM	USD
20	167 514 002	168.00	167 514 012 *	153.00	167 514 062 *	236.00	167 514 032 *	313.00
25	167 514 003	183.00	167 514 013 *	167.00	167 514 063 *	239.00	167 514 033 *	319.00
32	167 514 004	220.00	167 514 014 *	200.00	167 514 064 *	275.00	167 514 034 *	367.00
40	167 514 005	267.00	167 514 015 *	241.00	167 514 065 *	353.00	167 514 035 *	470.00
50	167 514 006	346.00	167 514 016 *	313.00	167 514 066 *	447.00	167 514 036 *	597.00
63	167 514 007	433.00	167 514 017 *	393.00	167 514 067 *	556.00	167 514 037 *	741.00
d [mm]	514 IR/Butt Fusion Union							
	NBR	USD	EPDM	USD	FPM	USD	PTFE/EPDM	USD
20	167 514 102	200.00	167 514 112 *	182.00	167 514 162 *	310.00	167 514 132 *	365.00
25	167 514 103	211.00	167 514 113 *	191.00	167 514 163 *	312.00	167 514 133 *	367.00
32	167 514 104	256.00	167 514 114 *	234.00	167 514 164 *	365.00	167 514 134 *	429.00
40	167 514 105	312.00	167 514 115 *	285.00	167 514 165 *	471.00	167 514 135 *	556.00
50	167 514 106	405.00	167 514 116 *	367.00	167 514 166 *	595.00	167 514 136 *	699.00
63	167 514 107	504.00	167 514 117 *	460.00	167 514 167 *	740.00	167 514 137 *	871.00



515 Socket Fusion



515 IR/Butt Fusion

Type 515 PROGEF® Standard PP

A

d [mm]	515 Socket Fusion Spigot							
	NBR	USD	EPDM	USD	FPM	USD	PTFE/EPDM	USD
20	167 515 002	125.00	167 515 012	115.00	167 515 062	176.00	167 515 032	237.00
25	167 515 003	140.00	167 515 013	128.00	167 515 063	187.00	167 515 033	247.00
32	167 515 004	178.00	167 515 014	164.00	167 515 064	222.00	167 515 034	296.00
40	167 515 005	214.00	167 515 015	194.00	167 515 065	284.00	167 515 035	377.00
50	167 515 006	275.00	167 515 016	251.00	167 515 066	357.00	167 515 036	475.00
63	167 515 007	348.00	167 515 017	315.00	167 515 067	446.00	167 515 037	595.00
d [mm]	515 IR/Butt Fusion							
	NBR	USD	EPDM	USD	FPM	USD	PTFE/EPDM	USD
20	167 515 102	151.00	167 515 112	138.00	167 515 162	198.00	167 515 132	265.00
25	167 515 103	170.00	167 515 113	154.00	167 515 163	223.00	167 515 133	297.00
32	167 515 104	214.00	167 515 114	194.00	167 515 164	269.00	167 515 134	357.00
40	167 515 105	256.00	167 515 115	234.00	167 515 165	342.00	167 515 135	457.00
50	167 515 106	332.00	167 515 116	301.00	167 515 166	425.00	167 515 136	567.00
63	167 515 107	415.00	167 515 117	377.00	167 515 167	533.00	167 515 137	711.00

PROGEF® Standard PP Diaphragm Valve



517 Flanged



317 Flanged

Type 517 PROGEF® Standard PP

A

Size [inch]	517 Flanged				
	EPDM		USD	PTFE/EPDM	USD
½	167 517 712 *		188.00	167 517 732 *	320.00
¾	167 517 713 *		192.00	167 517 733 *	373.00
1	167 517 714 *		256.00	167 517 734 *	446.00
1 ¼	167 517 715 *		296.00	167 517 735 *	573.00
1 ½	167 517 716 *		393.00	167 517 736 *	703.00
2	167 517 717 *		498.00	167 517 737 *	895.00

The Type 517's revolutionary threaded bonnet design eliminates need for body bolts

Type 317 PROGEF® Standard PP

A

Size [inch]	317 Flanged				
	EPDM		USD	PTFE/EPDM	USD
2 ½	167 317 523 *		567.00	167 317 538 *	886.00
3	167 317 024 ^		841.00	167 317 039 ^	1,237.00
4	167 317 325 ^		1,183.00	167 317 340 ^	1,647.00
6	167 317 027 *		3,368.00	167 317 042 *	5,013.00

The Type 317 utilizes the classic body bolt design



519 IR/Butt Fusion

Type 519 Zero Static PROGEF® Standard PP

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	519 IR/Butt Fusion			
			EPDM	USD	PTFE/EPDM	USD
20	20	20	167 519 101	431.00	167 519 301	697.00
25	20	25	167 519 103	435.00	167 519 303	703.00
25	25	25	167 519 104	442.00	167 519 304	711.00
32	20	25	167 519 107	443.00	167 519 307	719.00
32	25	25	167 519 108	450.00	167 519 308	725.00
32	32	32	167 519 109	454.00	167 519 309	733.00
40	20	32	167 519 112 *	462.00	167 519 312 *	746.00
50	20	25	167 519 118	531.00	167 519 318	880.00
50	25	32	167 519 119	613.00	167 519 319	951.00
50	32	32	167 519 120	636.00	167 519 320	986.00
63	20	25	167 519 125	691.00	167 519 325	1,016.00
63	25	32	167 519 126	720.00	167 519 326	1,030.00
63	32	32	167 519 127	760.00	167 519 327	1,051.00

PROGEF® Natural PP Diaphragm Valve



515 IR/Butt Fusion

Type 515 PROGEF® Natural PP

A

d [mm]	515 IR/Butt Fusion			
	EPDM	USD	PTFE/EPDM	USD
20	168 515 112	158.00	168 515 132	280.00
25	168 515 113	174.00	168 515 133	301.00
32	168 515 114	213.00	168 515 134	360.00
40	168 515 115	269.00	168 515 135	466.00
50	168 515 116	332.00	168 515 136	600.00
63	168 515 117	414.00	168 515 137	714.00



519 IR/Butt Fusion

Type 519 Zero Static PROGEF® Natural PP

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	519 IR/Butt Fusion			
			EPDM	USD	PTFE/EPDM	USD
20	20	20	168 519 101	523.00	168 519 301	746.00
25	20	25	168 519 103	533.00	168 519 303	763.00
25	25	25	168 519 104	543.00	168 519 304	769.00
32	20	25	168 519 107	543.00	168 519 307	777.00
32	25	25	168 519 108	549.00	168 519 308	783.00
32	32	32	168 519 109	556.00	168 519 309	792.00
40	20	32	168 519 112 *	568.00	168 519 312 *	811.00
50	20	25	168 519 118	662.00	168 519 318	951.00
50	25	32	168 519 119	719.00	168 519 319	1,034.00
50	32	32	168 519 120	746.00	168 519 320	1,062.00
63	20	25	168 519 125	777.00	168 519 325	1,100.00
63	25	32	168 519 126	777.00	168 519 326	1,121.00
63	32	32	168 519 127	792.00	168 519 327	1,135.00

SYGEF® Standard PVDF Diaphragm Valve



514 Socket Fusion Union



514 IR/Butt Fusion Union



515 Socket Fusion Spigot



515 IR/Butt Fusion

Type 514 SYGEF® Standard PVDF

A

d [mm]	514 Socket Fusion Union		514 IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 514 032 *	444.00	185 514 132 *	444.00
25	185 514 033 *	473.00	185 514 133 *	473.00
32	185 514 034 *	550.00	185 514 134 *	550.00
40	185 514 035 *	753.00	185 514 135 *	753.00
50	185 514 036 *	908.00	185 514 136 *	908.00
63	185 514 037 *	1,190.00	185 514 137 *	1,190.00

Type 515 SYGEF® Standard PVDF

A

d [mm]	515 Socket Fusion Spigot		515 IR/Butt Fusion	
	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 515 032	330.00	185 515 132	330.00
25	185 515 033	360.00	185 515 133	360.00
32	185 515 034	410.00	185 515 134	410.00
40	185 515 035 ^	564.00	185 515 135 ^	564.00
50	185 515 036	683.00	185 515 136	683.00
63	185 515 037	895.00	185 515 137	895.00



517 Flanged



317 Flanged

Type 517 SYGEF® Standard PVDF

A

Size [inch]	517 Flanged	
	PTFE/EPDM	USD
½	185 517 732	394.00
¾	185 517 733	437.00
1	185 517 734	501.00
1 ¼	185 517 735	676.00
1 ½	185 517 736	817.00
2	185 517 737	1,077.00

The Type 517 utilizes a revolutionary threaded bonnet design that eliminates the need for body bolts

Type 317 SYGEF® Standard PVDF

A

Size [inch]	317 Flanged	
	PTFE/EPDM	USD
2 ½	175 317 538 ^	1,873.00
3	175 317 009 ^	3,545.00
4	175 317 340 ^	5,513.00
6	175 317 012 *	9,695.00

The Type 317 utilizes the classic body bolt design

SYGEF® Plus PVDF Diaphragm Valve



514 IR/Butt Fusion Union



515 IR/Butt Fusion

Type 514 SYGEF® Plus PVDF- HP

A

d [mm]	514 IR/Butt Fusion Union			
	PTFE/EPDM	USD	PTFE/FPM	USD
20	181 514 132 *	579.00	181 514 152	607.00
25	181 514 133 *	615.00	181 514 153	645.00
32	181 514 134 *	713.00	181 514 154	748.00
40	181 514 135 *	988.00	181 514 155	1,036.00
50	181 514 136 *	1,181.00	181 514 156	1,239.00
63	181 514 137 *	1,563.00	181 514 157	1,640.00

Type 515 SYGEF® Plus PVDF- HP

A

d [mm]	515 IR/Butt Fusion			
	PTFE/EPDM	USD	PTFE/FPM	USD
20	181 515 132	433.00	181 515 152	454.00
25	181 515 133	462.00	181 515 153	485.00
32	181 515 134	533.00	181 515 154	559.00
40	181 515 135 ^	733.00	181 515 155	769.00
50	181 515 136	886.00	181 515 156	929.00
63	181 515 137	1,164.00	181 515 157	1,222.00



317 Flanged

Type 317 SYGEF® Plus PVDF- HP

A

Size [inch]	317 Flanged	
	PTFE/EPDM	USD
2 ½	175 317 568 ^	2,030.00
3	175 317 054 ^	3,582.00
4	175 317 355 ^	5,490.00
6	175 317 057 *	12,416.00

The Type 317 utilizes the classic body bolt design

SYGEF® Plus PVDF Diaphragm Valve



519 IR/Butt Fusion

Type 519 Zero Static SYGEF® Plus PVDF- HP

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	519 IR/Butt Fusion			
			PTFE/EPDM	USD	PTFE/FPM	USD
20	20	20	181 519 301	874.00	181 519 501	917.00
25	20	25	181 519 303	888.00	181 519 503	931.00
25	25	25	181 519 304	903.00	181 519 504	948.00
32	20	25	181 519 307	903.00	181 519 507	948.00
32	25	25	181 519 308	903.00	181 519 508	948.00
32	32	32	181 519 309	915.00	181 519 509	960.00
40	20	32	181 519 312 *	915.00	181 519 512	960.00
40	25	32	181 519 313 *	957.00	181 519 513	1,003.00
40	32	32	181 519 314 *	986.00	181 519 514	1,034.00
40	40	32	181 519 315 *	1,029.00	181 519 515	1,079.00
50	20	25	181 519 318	1,155.00	181 519 518	1,211.00
50	25	32	181 519 319	1,254.00	181 519 519	1,315.00
50	32	32	181 519 320	1,295.00	181 519 520	1,359.00
50	40	63	181 519 321 *	1,309.00	181 519 521	1,374.00
50	50	63	181 519 322	1,367.00	181 519 522	1,434.00
63	20	25	181 519 325	1,408.00	181 519 525	1,477.00
63	25	32	181 519 326	1,479.00	181 519 526	1,552.00
63	32	32	181 519 327	1,548.00	181 519 527	1,624.00
63	40	63	181 519 328 *	1,634.00	181 519 528	1,714.00
63	50	63	181 519 329	1,634.00	181 519 529	1,714.00
63	63	63	181 519 330	1,789.00	181 519 530	1,877.00
90	20	32	181 519 341 *	2,224.00	181 519 541	2,333.00
90	25	32	181 519 342 *	2,252.00	181 519 542	2,363.00
90	32	32	181 519 343 *	2,308.00	181 519 543	2,422.00
90	50	63	181 519 345 *	2,814.00	181 519 545	2,952.00
90	63	63	181 519 346 *	3,130.00	181 519 546	3,284.00
110	20	32	181 519 351 *	2,436.00	181 519 551	2,555.00
110	25	32	181 519 352 *	2,520.00	181 519 552	2,644.00
110	32	32	181 519 353 *	2,604.00	181 519 553	2,732.00
110	50	63	181 519 355 *	3,096.00	181 519 555	3,249.00
110	63	63	181 519 356 *	3,942.00	181 519 556	4,135.00

Diaphragm Valve Silicone Free



514 Socket



517 Flanged



317 Flanged

PVC Silicone Free

A

Size [inch]	514 Socket				517 Flanged			
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD
½	161 514 622	148.00	161 514 672	285.00	161 517 622	194.00	161 517 672	374.00
¾	161 514 623	167.00	161 514 673	300.00	161 517 623	224.00	161 517 673	400.00
1	161 514 624	207.00	161 514 674	378.00	161 517 624	275.00	161 517 674	476.00
1 ¼	161 514 625	247.00	161 514 675	474.00	161 517 625	338.00	161 517 675	617.00
1 ½	161 514 626	320.00	161 514 676	600.00	161 517 626	446.00	161 517 676	694.00
2	161 514 627	396.00	161 514 677	740.00	161 517 627	558.00	161 517 677	853.00
Size [inch]	317 Flanged							
	EPDM	USD	PTFE/EPDM	USD				
2 ½	161 317 753 ^	826.00	161 317 768 ^	1,247.00				
3	161 317 424 ^	1,070.00	161 317 439 ^	1,667.00				
4	161 317 425 ^	1,485.00	-	-				
6	161 317 427 ^	2,922.00	161 317 442 ^	5,838.00				

All Diaphragm Valves can be assembled silicone free - If desired configuration is not shown, please call Inside Sales for pricing



514 Socket Fusion Union



514 IR/Butt Fusion Union



515 IR/Butt Fusion

PROGEF® Plus PP Silicone Free

A

d [mm]	514 Socket Fusion Union				514 IR/Butt Fusion Union			
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD
20	167 514 022 *	212.00	167 514 072 *	435.00	167 514 122 *	253.00	167 514 172 *	492.00
25	167 514 023 *	228.00	167 514 073 *	443.00	167 514 123 *	264.00	167 514 173 *	509.00
32	167 514 024 *	278.00	167 514 074 *	509.00	167 514 124 *	321.00	167 514 174 *	567.00
40	167 514 025 *	334.00	167 514 075 *	655.00	167 514 125 *	393.00	167 514 175 *	605.00
50	167 514 026 *	435.00	167 514 076 *	827.00	167 514 126 *	509.00	167 514 176 *	942.00
63	167 514 027 *	545.00	167 514 077 *	1,030.00	167 514 127 *	638.00	167 514 177 *	1,160.00
d [mm]	515 IR/Butt Fusion							
	EPDM	USD	PTFE/EPDM	USD				
20	167 515 122 *	193.00	167 515 172 *	329.00				
25	167 515 123 *	214.00	167 515 173 *	412.00				
32	167 515 124 *	270.00	167 515 174 *	495.00				
40	167 515 125 *	321.00	167 515 175 *	622.00				
50	167 515 126 *	414.00	167 515 176 *	707.00				
63	167 515 127 *	492.00	167 515 177 *	988.00				

PROGEF® Plus is PROGEF® Standard cleaned and bagged

All Diaphragm Valves can be assembled silicone free - If desired configuration is not shown, please call Inside Sales for pricing

Accessories for 5-Series Diaphragm Valves



Electric Feedback Module (I33) with Limit Switches

C

d - d [mm]	Size [inch]	Ag Ni	USD	Au	USD
20 - 25	½ - ¾	198 151 335	133.00	198 151 336	147.00
32 - 40	1 - 1 ¼	198 151 337	153.00	198 151 338	169.00
50 - 63	1 ½ - 2	198 151 339	173.00	198 151 340	190.00

Spare Parts 5-Series Diaphragm Valves

Diaphragm

C

d - Size [mm]-[inch]	NBR	USD	EPDM	USD	FPM	USD
20 - ½	745 500 012	22.00	748 500 012	18.00	749 500 012	88.00
25 - ¾	745 500 013	26.00	748 500 013	21.00	749 500 013	92.00
32 - 1	745 500 014	34.00	748 500 014	27.00	749 500 014	122.00
40 - 1 ¼	745 500 015	43.00	748 500 015	34.00	749 500 015	140.00
50 - 1 ½	745 500 016	59.00	748 500 016	46.00	749 500 016	140.00
63 - 2	745 500 017	82.00	748 500 017	65.00	749 500 017	200.00
d - Size [mm]-[inch]	PTFE/EPDM	USD	PTFE/EPDM HP	USD	PTFE/FPM	USD
20 - ½	747 502 012	106.00	747 502 032	129.00	747 503 012	106.00
25 - ¾	747 502 013	112.00	747 502 033	136.00	747 503 013	112.00
32 - 1	747 502 014	149.00	747 502 034	162.00	747 503 014	149.00
40 - 1 ¼	747 502 015	176.00	747 502 035	196.00	747 503 015	176.00
50 - 1 ½	747 502 016	186.00	747 502 036	214.00	747 503 016	186.00
63 - 2	747 502 017	268.00	747 502 037	306.00	747 503 017	268.00



Bonnet Complete

A

Bonnet Seal

A

d - Size [mm]-[inch]	Standard		Bonnet with Seal	
	Part No.	USD	Part No.	USD
20 - ½	198 151 742	76.00	198 151 752	93.00
25 - ¾	198 151 743	95.00	198 151 753	118.00
32 - 1	198 151 744	106.00	198 151 754	133.00
40 - 1 ¼	198 151 745	128.00	198 151 755	159.00
50 - 1 ½	198 151 746	157.00	198 151 756	197.00
63 - 2	198 151 747	192.00	198 151 757	239.00



Without diaphragm

Hand Wheel

A



Size [inch]	Size [inch]	Part No.	USD
½ - ¾	½ - ¾	198 204 162	18.00
1 - 1 ¼	1 - 1 ¼	198 204 164	24.00
1 ½ - 2	1 ½ - 2	198 104 166	24.00



Without position indicator

Seals bonnet from atmosphere

Position Indicator C

d - Size [mm]-[inch]	Part No.	USD
20 - ½	167 484 992	4.00
25 - ¾	167 484 993	4.00
32 - 1	167 484 994	6.00
40 - 1 ¼	167 484 995	6.00
50 - 1 ½	167 484 996	14.00
63 - 2	167 484 997	14.00

Spare Parts Diaphragm Valves



Union End

Socket/Threaded NPT

IR/Butt Fusion

Socket Fusion

B

d - Size [mm]-[inch]	PVC				CPVC			
	Socket	USD	Threaded NPT	USD	Socket	USD		
20 - ½	721 602 006	2.00	721 602 656	5.00	723 602 006	3.00		
25 - ¾	721 602 007	2.00	721 602 657	6.00	723 602 007	3.00		
32 - 1	721 602 008	2.00	721 602 658	7.00	723 602 008	4.00		
40 - 1 ¼	721 602 009	2.00	721 602 659	23.00	723 602 009	4.00		
50 - 1 ½	721 602 010	4.00	721 602 660	19.00	723 602 010	7.00		
63 - 2	721 602 011	6.00	721 602 661	19.00	723 602 011	10.00		
d - Size [mm]-[inch]	PP						PPn	
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD	IR/Butt Fusion	USD
20 - ½	727 500 106 *	4.00	727 508 506 *	8.00	198 203 603	22.00	728 608 506 *	12.00
25 - ¾	727 500 107 *	4.00	727 508 507 *	12.00	-	-	728 608 507 *	15.00
32 - 1	727 500 108 *	5.00	727 508 508 *	12.00	198 203 604	25.00	728 608 508 *	15.00
40 - 1 ¼	727 500 109 *	6.00	727 508 509 *	21.00	-	-	728 608 509 *	22.00
50 - 1 ½	727 500 110 *	7.00	727 508 510 *	21.00	198 203 606	28.00	728 608 510 *	23.00
63 - 2	727 500 111 *	8.00	727 508 511 *	23.00	198 203 607	32.00	728 608 511 *	33.00
d - Size [mm]-[inch]	PVDF							
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD		
20 - ½	735 500 106 *	15.00	735 608 606 *	18.00	155 203 611	29.00		
25 - ¾	735 500 107 *	17.00	735 608 607 *	21.00	-	-		
32 - 1	735 500 108 *	20.00	735 608 608 *	28.00	155 203 612	47.00		
40 - 1 ¼	735 500 109 *	29.00	735 608 609 *	33.00	-	-		
50 - 1 ½	735 500 110 *	33.00	735 608 610 *	38.00	155 203 614	68.00		
63 - 2	735 500 111 *	45.00	735 608 611 *	54.00	155 203 615	84.00		



Union Nut

A

d - Size [mm]-[inch]	PVC	USD	CPVC	USD	PP	USD	PVDF	USD
20 - ½	721 890 006	3.00	723 690 006	5.00	727 890 406	18.00	735 690 406	25.00
25 - ¾	721 890 007	3.00	723 690 007	5.00	727 890 407	17.00	735 690 407	32.00
32 - 1	721 890 008	4.00	723 690 008	7.00	727 890 408	22.00	735 690 408	41.00
40 - 1 ¼	721 890 009	5.00	723 690 009	7.00	727 890 409	28.00	735 690 409	58.00
50 - 1 ½	721 890 010	7.00	723 690 010	10.00	727 890 410	45.00	735 690 410	86.00
63 - 2	721 890 011	10.00	723 690 011	15.00	727 890 411	71.00	735 690 411	135.00

Union O-ring

B

d - Size [mm]-[inch]	EPDM	USD	FPM	USD
20 - ½	748 410 006 *	3.00	749 410 006 *	5.00
25 - ¾	748 410 007	3.00	749 410 007	6.00
32 - 1	748 410 008 *	5.00	749 410 008 *	7.00
40 - 1 ¼	748 410 009	5.00	749 410 009	15.00
50 - 1 ½	748 410 010 *	5.00	749 410 010 *	16.00
63 - 2	748 410 011 *	7.00	749 410 011 *	17.00



Spare Parts Diaphragm Valves

Type 514 Valve Body

A

Size [inch]	PVC	USD	CPVC	USD		
½	161 492 062	36.00	163 482 052			
¾	161 492 063	42.00	163 482 053			
1	161 492 064	44.00	163 482 054			
1 ¼	161 492 065	52.00	163 482 055			
1 ½	161 492 066	63.00	163 482 056			
2	161 492 067	80.00	163 482 057			
d [mm]	PP	USD	PVDF	USD	PVDF-HP	USD
20	167 483 522	50.00	175 483 682	190.00	180 001 002	381.00
25	167 483 523	60.00	175 483 683	215.00	180 001 003	431.00
32	167 483 524	63.00	175 483 684	233.00	180 001 004	467.00
40	167 483 525	74.00	175 483 685	290.00	180 001 005	581.00
50	167 483 526	91.00	175 483 686	361.00	180 001 006	722.00
63	167 483 527	114.00	175 483 687	475.00	180 001 007	951.00

Type 514 Valve Body is a union style diaphragm valve - Above part number does not include valve ends, valve nuts or face seals

Type 515 Valve Body

A

d	Socket Fusion Spigot							
[mm]	PP	USD	PVDF	USD				
20	167 483 342	44.00	175 483 692	160.00				
25	167 483 343	48.00	175 483 693	180.00				
32	167 483 344	52.00	175 483 694	196.00				
40	167 483 345	63.00	175 483 695	244.00				
50	167 483 346	77.00	175 483 696	303.00				
63	167 483 347	98.00	175 483 697	397.00				
d	IR/Butt Fusion							
[mm]	PP	USD	PPn	USD	PVDF	USD	PVDF-HP	USD
20	167 483 882	44.00	168 480 462	64.00	175 483 742	160.00	180 001 012	318.00
25	167 483 883	48.00	168 480 463	71.00	175 483 743	180.00	180 001 013	358.00
32	167 483 884	52.00	168 480 464	78.00	175 483 744	196.00	180 001 014	390.00
40	167 483 885	63.00	168 480 465	92.00	175 483 745	244.00	180 001 015	488.00
50	167 483 886	77.00	168 480 466	111.00	175 483 746	303.00	180 001 016	606.00
63	167 483 887	98.00	168 480 467	143.00	175 483 747	397.00	180 001 017	794.00

Spare Parts Diaphragm Valves



Type 519 Zero Static Valve Body

A

d [mm]	IR/Butt Fusion					
	PP	USD	PPn	USD	PVDF-HP	USD
20 - 20	167 485 911	338.00	168 480 601	493.00	180 001 101	727.00
25 - 20	167 485 912	346.00	168 480 602	507.00	180 001 102	745.00
25 - 25	167 485 913	354.00	168 480 603	516.00	180 001 103	759.00
32 - 20	167 485 914	361.00	168 480 604	527.00	180 001 104	777.00
32 - 25	167 485 915	369.00	168 480 605	539.00	180 001 105	796.00
32 - 32	167 485 916	378.00	168 480 606	551.00	180 001 106	811.00
40 - 20	167 485 917	411.00	168 480 607	602.00	180 001 107	887.00
40 - 25	-	-	-	-	180 001 108	930.00
40 - 32	-	-	-	-	180 001 109	953.00
40 - 40	-	-	-	-	180 001 110	979.00
50 - 20	167 485 922	501.00	168 480 611	732.00	180 001 111	1,076.00
50 - 25	167 485 923	563.00	168 480 612	823.00	180 001 112	1,210.00
50 - 32	167 485 924	581.00	168 480 613	848.00	180 001 113	1,249.00
50 - 40	-	-	-	-	180 001 114	1,312.00
50 - 50	-	-	-	-	180 001 115	1,373.00
63 - 20	167 485 927	547.00	168 480 616	800.00	180 001 116	1,177.00
63 - 25	167 485 928	563.00	168 480 617	823.00	180 001 117	1,210.00
63 - 32	167 485 929	581.00	168 480 618	848.00	180 001 118	1,249.00
63 - 40	-	-	-	-	180 001 119	1,349.00
63 - 50	-	-	-	-	180 001 120	1,411.00
63 - 63	-	-	-	-	180 001 121	1,433.00
90 - 25	-	-	-	-	180 001 126	1,960.00
90 - 32	-	-	-	-	180 001 127	2,023.00
90 - 50	-	-	-	-	180 001 128	2,414.00
90 - 63	-	-	-	-	180 001 129	2,925.00
110 - 20	-	-	-	-	180 001 130	2,412.00
110 - 25	-	-	-	-	180 001 131	2,414.00
110 - 32	-	-	-	-	180 001 132	2,531.00
110 - 50	-	-	-	-	180 001 133	2,965.00
110 - 63	-	-	-	-	180 001 134	3,522.00

Spare Parts Type 317 Diaphragm Valve

Bonnet CompleteA

d - Size [mm]-[inch]	EPDM/FPM	USD	PTFE	USD
75 - 2 ½	161 484 631	212.00	161 484 638	275.00
90 - 3	161 482 514	468.00	161 482 516	548.00
110 - 4	161 482 515	627.00	161 482 517	787.00
160 - 6	161 482 901	1,656.00	161 482 906	2,553.00

Does not include diaphragm

DiaphragmA

d - Size [mm]-[Inch]	NBR	USD	EPDM	USD	FPM	USD
75 - 2 ½	161 480 231	91.00	161 481 028	64.00	161 481 098	392.00
90 - 3	161 480 232	98.00	161 481 029	76.00	161 481 099	427.00
110 - 4	161 480 233	110.00	161 481 030	128.00	161 481 100	517.00
160 - 6	161 482 751	587.00	161 482 754	520.00	161 481 102	2,296.00
d - Size [mm]-[Inch]	PTFE/EPDM	USD	PTFE/FPM	USD	PTFE/EPDM HP	USD
75 - 2 ½	161 480 240	399.00	161 481 932	494.00	161 484 458	476.00
90 - 3	161 480 241	431.00	161 481 933	690.00	161 484 459	584.00
110 - 4	161 480 242	523.00	161 481 934	809.00	161 484 460	761.00
160 - 6	161 482 760	2,940.00	-	-	161 482 760	2,940.00

Pressure SpindleA

d - Size [mm]-[inch]	Elastomer	USD	PTFE	USD
75 - 2 ½	161 484 694	76.00	161 484 702	87.00
90 - 3	161 483 008	115.00	161 483 020	119.00
110 - 4	161 483 009	163.00	161 483 021	158.00
160 - 6	161 483 011	183.00	161 483 023	183.00

Fastening SetA

d - Size [mm]-[inch]	for PVC, CPVC, ABS	USD	for PP, PVDF	USD
75 - 2 ½	161 483 032	50.00	161 483 032	50.00
90 - 3	161 483 033	76.00	161 483 033	76.00
110 - 4	161 483 034	108.00	161 483 034	108.00
160 - 6	161 483 037	370.00	161 483 037	370.00

Indicator CapA

d - Size [mm]-[inch]	Part No.	USD
90 - 3	161 481 759	3.00
110 - 4	161 481 760	3.00
160 - 6	161 482 744	26.00

Type 561 Cone Check Valve

For vertical installation - No spring included



PVC and CPVC

PVC Socket/Threaded NPT

CPVC Socket/Threaded NPT

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 561 101	48.00	161 561 111	58.00	163 561 101	97.00	163 561 111	107.00
1/2	161 561 102	48.00	161 561 112	58.00	163 561 102	97.00	163 561 112	107.00
3/4	161 561 103	57.00	161 561 113	61.00	163 561 103	115.00	163 561 113	131.00
1	161 561 104	60.00	161 561 114	73.00	163 561 104	138.00	163 561 114	164.00
1 1/4	161 561 105	74.00	161 561 115	88.00	163 561 105	202.00	163 561 115	237.00
1 1/2	161 561 106	91.00	161 561 116	116.00	163 561 106	211.00	163 561 116	253.00
2	161 561 107	131.00	161 561 117	171.00	163 561 107	269.00	163 561 117	336.00
2 1/2	161 561 108	307.00	161 561 118	369.00	163 561 108	685.00	163 561 118	823.00
3	161 561 109	363.00	161 561 119	459.00	163 561 109	857.00	163 561 119	1,028.00
4	161 561 110	854.00	161 561 120	947.00	163 561 110	1,539.00	163 561 120	2,535.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 561 001	67.00	167 561 011	74.00	-	-	-	-
20	167 561 002	74.00	167 561 012	81.00	167 561 082	78.00	167 561 092	82.00
25	167 561 003	81.00	167 561 013	92.00	167 561 083	81.00	167 561 093	93.00
32	167 561 004	99.00	167 561 014	110.00	167 561 084	99.00	167 561 094	110.00
40	167 561 005	117.00	167 561 015	128.00	167 561 085	117.00	167 561 095	128.00
50	167 561 006	140.00	167 561 016	164.00	167 561 086	145.00	167 561 096	164.00
63	167 561 007	207.00	167 561 017	253.00	167 561 087	227.00	167 561 097	253.00
75	167 561 008	439.00	167 561 018	527.00	167 561 088	495.00	167 561 098	595.00
90	167 561 009	549.00	167 561 019	659.00	167 561 089	620.00	167 561 099	744.00
110	167 561 010	1,031.00	167 561 020	1,065.00	167 561 090	1,031.00	167 561 100	1,065.00

Size [inch]	Threaded NPT					
	EPDM	USD	FPM	USD		
3/8	167 561 101	78.00	167561111	81.00		
1/2	167 561 102	78.00	167561112	81.00		
3/4	167 561 103	92.00	167561113	99.00		
1	167 561 104	110.00	167561114	117.00		
1 1/4	167 561 105	117.00	167561115	128.00		
1 1/2	167 561 106	161.00	167561116	182.00		
2	167 561 107	239.00	167561117	280.00		

Socket Fusion/Threaded NPT

IR/Butt Fusion

Type 561 Cone Check Valve

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion			
	FPM	USD	FPM	USD		
16	175 561 011	377.00	-	-		
20	175 561 012	381.00	175 561 092	432.00		
25	175 561 013	470.00	175 561 093	521.00		
32	175 561 014	550.00	175 561 094	600.00		
40	175 561 015	908.00	175 561 095	1,002.00		
50	175 561 016	982.00	175 561 096	1,069.00		
63	175 561 017	1,646.00	175 561 097	1,770.00		
75	175 561 018	3,812.00	175 561 098	4,276.00		
90	175 561 019	4,765.00	175 561 099	5,344.00		
110	175 561 020	5,719.00	175 561 100	6,412.00		
					Socket Fusion	IR/Butt Fusion

Type 561 Cone Check Valve Silicone Free

PROGEF® Standard PP Silicone Free

A

d [inch]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 561 201	83.00	167 561 211	93.00	-	-	-	-
20	167 561 202	83.00	167 561 212	93.00	167 561 242	97.00	167 561 252	103.00
25	167 561 203	110.00	167 561 213	117.00	167 561 243	110.00	167 561 253	119.00
32	167 561 204	128.00	167 561 214	145.00	167 561 244	127.00	167 561 254	145.00
40	167 561 205	145.00	167 561 215	164.00	167 561 245	145.00	167 561 255	164.00
50	167 561 206	172.00	167 561 216	192.00	167 561 246	182.00	167 561 256	200.00
63	167 561 207	280.00	167 561 217	309.00	167 561 247	227.00	167 561 257	254.00
75	167 561 208	527.00	167 561 218	705.00	167 561 248	595.00	167 561 258	714.00
90	167 561 209	659.00	167 561 219	882.00	167 561 249	744.00	167 561 259	892.00
110	167 561 210	1,187.00	167 561 220	1,225.00	167 561 250	1,194.00	167 561 260	1,230.00

PROGEF® Plus is PROGEF® Standard cleaned and bagged

SYGEF® Standard PVDF Silicone Free

A

d [inch]	Socket Fusion		IR/Butt Fusion			
	FPM	USD	FPM	USD		
16	175 561 211	443.00	-	-		
20	175 561 212	452.00	175 561 272	509.00		
25	175 561 213	561.00	175 561 273	606.00		
32	175 561 214	650.00	175 561 274	710.00		
40	175 561 215	1,063.00	175 561 275	1,181.00		
50	175 561 216	1,160.00	175 561 276	1,257.00		
63	175 561 217	1,951.00	175 561 277	2,066.00		
75	175 561 218	4,432.00	175 561 278	4,085.00		
90	175 561 219	5,541.00	175 561 279	5,106.00		
110	175 561 220	6,649.00	175 561 280	6,126.00		
					Socket Fusion	IR/Butt Fusion

Type 562 Cone Check Valve

For vertical or horizontal installation - Includes SS spring
Alternative spring materials available



PVC and CPVC

PVC Socket/Threaded NPT

CPVC Socket/Threaded NPT

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 562 101	70.00	161 562 111	82.00	163 562 101	141.00	163 562 111	166.00
1/2	161 562 102	70.00	161 562 112	82.00	163 562 102	141.00	163 562 112	166.00
3/4	161 562 103	80.00	161 562 113	93.00	163 562 103	165.00	163 562 113	195.00
1	161 562 104	87.00	161 562 114	102.00	163 562 104	199.00	163 562 114	235.00
1 1/4	161 562 105	105.00	161 562 115	122.00	163 562 105	283.00	163 562 115	334.00
1 1/2	161 562 106	130.00	161 562 116	151.00	163 562 106	301.00	163 562 116	355.00
2	161 562 107	184.00	161 562 117	215.00	163 562 107	385.00	163 562 117	454.00
2 1/2	161 562 108	368.00	161 562 118	430.00	163 562 108	773.00	163 562 118	909.00
3	161 562 109	459.00	161 562 119	537.00	163 562 109	966.00	163 562 119	1,137.00
4	161 562 110	1,195.00	161 562 120	1,327.00	163 562 110	2,157.00	163 562 120	3,209.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 562 001	109.00	167 562 011	129.00	-	-	-	-
20	167 562 002	109.00	167 562 012	129.00	167 562 082	121.00	167 562 092	142.00
25	167 562 003	116.00	167 562 013	137.00	167 562 083	129.00	167 562 093	150.00
32	167 562 004	130.00	167 562 014	151.00	167 562 084	141.00	167 562 094	168.00
40	167 562 005	153.00	167 562 015	179.00	167 562 085	168.00	167 562 095	198.00
50	167 562 006	176.00	167 562 016	206.00	167 562 086	191.00	167 562 096	224.00
63	167 562 007	258.00	167 562 017	302.00	167 562 087	274.00	167 562 097	324.00
75	167 562 008	515.00	167 562 018	602.00	167 562 088	534.00	167 562 098	632.00
90	167 562 009	643.00	167 562 019	752.00	167 562 089	695.00	167 562 099	819.00
110	167 562 010	1,444.00	167 562 020	1,490.00	167 562 090	1,444.00	167 562 100	1,490.00

Size [inch]	Threaded NPT					
	EPDM	USD	FPM	USD		
3/8	167 562 101	123.00	167 562 111	145.00		
1/2	167 562 102	123.00	167 562 112	145.00		
3/4	167 562 103	132.00	167 562 113	155.00		
1	167 562 104	146.00	167 562 114	171.00		
1 1/4	167 562 105	174.00	167 562 115	204.00		
1 1/2	167 562 106	199.00	167 562 116	233.00		
2	167 562 107	289.00	167 562 117	341.00		

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion			
	FPM	USD	FPM	USD		
16	175 562 011	437.00	-	-		
20	175 562 012	441.00	175 562 092	496.00		
25	175 562 013	542.00	175 562 093	608.00		
32	175 562 014	636.00	175 562 094	713.00		
40	175 562 015	1,038.00	175 562 095	1,166.00		
50	175 562 016	1,123.00	175 562 096	1,262.00		
63	175 562 017	1,888.00	175 562 097	2,118.00		

Type 562 Cone Check Valve

For vertical or horizontal installation - Includes SS spring
Alternative spring materials available



Socket Fusion/Threaded NPT



IR/Butt Fusion

PROGEF® Plus PP Silicone Free

A

d [inch]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 562 201	129.00	167 562 211	140.00	-	-	-	-
20	167 562 202	129.00	167 562 212	140.00	167 562 242	142.00	167 562 252	169.00
25	167 562 203	137.00	167 562 213	162.00	167 562 243	152.00	167 562 253	179.00
32	167 562 204	151.00	167 562 214	174.00	167 562 244	169.00	167 562 254	199.00
40	167 562 205	179.00	167 562 215	213.00	167 562 245	201.00	167 562 255	237.00
50	167 562 206	206.00	167 562 216	259.00	167 562 246	229.00	167 562 256	270.00
63	167 562 207	302.00	167 562 217	390.00	167 562 247	335.00	167 562 257	394.00
75	167 562 208	602.00	167 562 218	780.00	167 562 248	671.00	167 562 258	789.00
90	167 562 209	752.00	167 562 219	975.00	167 562 249	838.00	167 562 259	987.00
110	167 562 210	1,661.00	167 562 220	1,714.00	167 562 250	1,673.00	167 562 260	1,729.00

PROGEF® Plus is PROGEF® Standard cleaned and bagged



Socket Fusion



IR/Butt Fusion

SYGEF® Standard PVDF Silicone Free

A

d [inch]	Socket Fusion		IR/Butt Fusion	
	FPM	USD	FPM	USD
16	175 562 211	521.00	-	-
20	175 562 212	561.00	175 562 272	593.00
25	175 562 213	647.00	175 562 273	729.00
32	175 562 214	757.00	175 562 274	854.00
40	175 562 215	1,241.00	175 562 275	1,401.00
50	175 562 216	1,342.00	175 562 276	1,514.00
63	175 562 217	2,258.00	175 562 277	2,546.00
75	175 562 218	4,560.00	175 562 278	5,142.00
90	175 562 219	5,699.00	175 562 279	6,428.00
110	175 562 220	6,838.00	175 562 280	7,712.00

Type 591 Ventilating and Bleed Valve



PVC Socket/Threaded NPT



PVC Socket/Threaded NPT



PP Socket Fusion



PP Socket Fusion Spigot

PVC and CPVC

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 591 101	73.00	161 591 111	88.00	163 591 101	155.00	163 591 111	185.00
1/2	161 591 102	73.00	161 591 112	88.00	163 591 102	155.00	163 591 112	185.00
3/4	161 591 103	97.00	161 591 113	115.00	163 591 103	211.00	163 591 113	253.00
1	161 591 104	118.00	161 591 114	142.00	163 591 104	296.00	163 591 114	354.00
1 1/4	161 591 105	143.00	161 591 115	173.00	163 591 105	426.00	163 591 115	512.00
1 1/2	161 591 106	222.00	161 591 116	268.00	163 591 106	559.00	163 591 116	672.00
2	161 591 107	317.00	161 591 117	381.00	163 591 107	709.00	163 591 117	851.00
2 1/2	161 591 108	509.00	161 591 118	610.00	163 591 108	1,133.00	163 591 118	1,362.00
3	161 591 109	636.00	161 591 119	761.00	163 591 109	1,417.00	163 591 119	1,702.00
4	161 591 110	761.00	161 591 120	915.00	163 591 110	1,702.00	163 591 120	2,041.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				Socket Fusion Spigot			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 591 001	143.00	167 591 011	173.00	167 591 041	143.00	167 591 051	173.00
20	167 591 002	143.00	167 591 012	173.00	167 591 042	143.00	167 591 052	173.00
25	167 591 003	178.00	167 591 013	213.00	167 591 043	178.00	167 591 053	213.00
32	167 591 004	225.00	167 591 014	270.00	167 591 044	225.00	167 591 054	270.00
40	167 591 005	268.00	167 591 015	320.00	167 591 045	268.00	167 591 055	320.00
50	167 591 006	379.00	167 591 016	454.00	167 591 046	379.00	167 591 056	454.00
63	167 591 007	556.00	167 591 017	667.00	167 591 047	556.00	167 591 057	667.00
75	167 591 008	890.00	167 591 018	1,068.00	167 591 048	890.00	167 591 058	1,068.00
90	167 591 009	1,112.00	167 591 019	1,335.00	167 591 049	1,112.00	167 591 059	1,335.00
110	167 591 010	1,335.00	167 591 020	1,602.00	167 591 050	1,335.00	167 591 060	1,602.00

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		Socket Fusion Spigot			
	FPM	USD	FPM	USD		
16	175 591 011	528.00	175 591 031	528.00		
20	175 591 012	533.00	175 591 032	533.00		
25	175 591 013	656.00	175 591 033	656.00		
32	175 591 014	771.00	175 591 034	771.00		
40	175 591 015	1,271.00	175 591 035	1,271.00		
50	175 591 016	1,371.00	175 591 036	1,371.00		
63	175 591 017	2,312.00	175 591 037	2,312.00		
75	175 591 018	4,626.00	-	-	PVDF Socket Fusion	PVDF Socket Fusion Spigot
90	175 591 019	5,782.00	-	-		
110	175 591 020	6,937.00	-	-		

Type 595 Bleed Valve



PVC Socket/Threaded NPT



PVC Socket/Threaded NPT



PP Socket Fusion



PP Socket Fusion Spigot

PVC and CPVC

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	161 595 101	88.00	161 595 111	102.00	163 595 101	176.00	163 595 111	206.00
1/2	161 595 102	88.00	161 595 112	102.00	163 595 102	176.00	163 595 112	206.00
3/4	161 595 103	115.00	161 595 113	136.00	163 595 103	240.00	163 595 113	283.00
1	161 595 104	142.00	161 595 114	166.00	163 595 104	330.00	163 595 114	389.00
1 1/4	161 595 105	173.00	161 595 115	202.00	163 595 105	468.00	163 595 115	554.00
1 1/2	161 595 106	268.00	161 595 116	313.00	163 595 106	623.00	163 595 116	734.00
2	161 595 107	381.00	161 595 117	445.00	163 595 107	799.00	163 595 117	940.00
2 1/2	161 595 108	610.00	161 595 118	712.00	163 595 108	1,279.00	163 595 118	1,505.00
3	161 595 109	761.00	161 595 119	889.00	163 595 109	1,599.00	163 595 119	1,882.00
4	161 595 110	914.00	161 595 120	1,066.00	163 595 110	1,918.00	163 595 120	2,258.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				Socket Fusion Spigot			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	167 595 001	166.00	167 595 011	194.00	167 595 041	166.00	167 595 051	194.00
20	167 595 002	166.00	167 595 012	194.00	167 595 042	166.00	167 595 052	194.00
25	167 595 003	207.00	167 595 013	243.00	167 595 043	207.00	167 595 053	243.00
32	167 595 004	261.00	167 595 014	307.00	167 595 044	261.00	167 595 054	307.00
40	167 595 005	311.00	167 595 015	364.00	167 595 045	311.00	167 595 055	364.00
50	167 595 006	447.00	167 595 016	522.00	167 595 046	447.00	167 595 056	522.00
63	167 595 007	651.00	167 595 017	763.00	167 595 047	651.00	167 595 057	763.00
75	167 595 008	1,042.00	167 595 018	1,222.00	167 595 048	1,042.00	167 595 058	1,222.00
90	167 595 009	1,304.00	167 595 019	1,526.00	167 595 049	1,304.00	167 595 059	1,526.00
110	167 595 010	1,564.00	167 595 020	1,831.00	167 595 050	1,564.00	167 595 060	1,831.00

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		Socket Fusion Spigot			
	FPM	USD	FPM	USD		
16	175 595 011	546.00	175 595 031	546.00		
20	175 595 012	552.00	175 595 032	552.00		
25	175 595 013	677.00	175 595 033	677.00		
32	175 595 014	793.00	175 595 034	793.00		
40	175 595 015	1,298.00	175 595 035	1,298.00		
50	175 595 016	1,404.00	175 595 036	1,404.00	PVDF Socket Fusion	PVDF Socket Fusion Spigot
63	175 595 017	2,361.00	175 595 037	2,361.00		
75	175 595 018	4,719.00	-	-		
90	175 595 019	5,900.00	-	-		
110	175 595 020	7,080.00	-	-		

Accessories Cone Check Valve

Spring

A

d - Size [mm]-[inch]	Stainless Steel		NIMONIC 90		NIMONIC 90 Halar coated	
	Part No.	USD	Part No.	USD	Part No.	USD
16 - ⅜	161 485 132	11.00	161 485 152	46.00	161 485 142	93.00
20 - ½	161 485 132	11.00	161 485 152	46.00	161 485 142	93.00
25 - ¾	161 485 132	11.00	161 485 152	46.00	161 485 142	93.00
32 - 1	161 485 133	12.00	161 485 153	49.00	161 485 143	100.00
40 - 1 ¼	161 485 134	15.00	161 485 154	61.00	161 485 144	119.00
50 - 1 ½	161 485 135	20.00	161 485 155	75.00	161 485 145	150.00
63 - 2	161 485 136	27.00	161 485 156	106.00	161 485 146	212.00
75 - 2 ½	161 485 137	53.00	161 485 157	212.00	161 485 147	261.00
90 - 3	161 485 138	66.00	161 485 158	266.00	161 485 148	338.00
110 - 4	161 485 139	80.00	161 485 159	318.00	161 485 149	389.00



Type 050 PVC Screen Assembly

A

Size [inch]	Socket / Barrel Nipple		Size [inch]	Socket Only	
	Part No.	USD		Part No.	USD
½	161 050 186	44.00	3	161 050 053	137.00
¾	161 050 187	46.00			
1	161 050 188	58.00			
1 ¼	161 050 189	68.00			
1 ½	161 050 190	102.00			
2	161 050 191	118.00			



Handle for Dismantling

A

d - Size [mm]-[inch]	Red	USD	Black	USD
16 - ⅜	167 484 088	3.00	167 484 076	4.00
20 - ½	167 484 088	3.00	167 484 076	4.00
25 - ¾	167 484 089	3.00	167 484 077	4.00
32 - 1	167 484 090	4.00	167 484 078	5.00
40 - 1 ¼	167 484 091	4.00	167 484 079	5.00
50 - 1 ½	167 484 092	5.00	167 484 080	6.00
63 - 2	167 484 093	6.00	167 484 081	7.00
75 - 2 ½	167 484 094	19.00	167 484 082	19.00
90 - 3	167 484 095	19.00	167 484 083	19.00
110 - 4	167 484 096	26.00	167 484 084	26.00



Red



Black

Spare Parts Cone Check Valve

For Type 561/562 and Type 591/595 Valve Ends, Valve Nuts and Face Seals: Please see Type 546 Spare Parts

Type 369 Wafer Check Valve



PVC

A

Size [inch]	Without Spring				With SS-316 Spring			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
1 ½	161 369 003	144.00	161 369 023	234.00	161 369 043	234.00	161 369 063	323.00
2	161 369 004	152.00	161 369 024	248.00	161 369 044	248.00	161 369 064	346.00
2 ½	161 369 005	185.00	161 369 025	304.00	161 369 045	290.00	161 369 065	407.00
3	161 369 006	200.00	161 369 026	338.00	161 369 046	310.00	161 369 066	449.00
4	161 369 007	234.00	161 369 027	401.00	161 369 047	346.00	161 369 067	512.00
6	161 369 010	338.00	161 369 030	553.00	161 369 050	470.00	161 369 070	690.00
8	161 369 011	428.00	161 369 031	655.00	161 369 051	580.00	161 369 071	815.00
10	161 369 012	649.00	161 369 032	966.00	161 369 052	827.00	161 369 072	1,130.00
12	161 369 013	917.00	161 369 033	1,282.00	161 369 053	1,161.00	161 369 073	1,498.00

Size [inch]	With Hastelloy-C Spring				Spacer	PVC	USD
	EPDM	USD	FPM	USD			
1 ½	161 369 083	275.00	161 369 103	365.00		A	
2	161 369 084	298.00	161 369 104	392.00			
2 ½	161 369 085	332.00	161 369 105	449.00			
3	161 369 086	352.00	161 369 106	496.00			
4	161 369 087	401.00	161 369 107	565.00			
6	161 369 090	531.00	161 369 110	745.00			
8	161 369 091	634.00	161 369 111	869.00			
10	161 369 092	925.00	161 369 112	1,234.00			
12	161 369 093	1,259.00	161 369 113	1,601.00			

PP and PVDF Type 369 Wafer Check Valves available upon request - Please call Inside Sales for pricing and part numbers

Spacer used to ensure valve opens when used with certain kinds of flanges - Please consult data sheet for further information

Type 522 Needle Valve



Angle Body



Globe Body

PP and PVDF

Size [inch]	Threaded NPT							
	PP				PVDF			
	Globe Body		Angle Body		Globe Body		Angle Body	
	PTFE	USD	PTFE	USD	PTFE	USD	PTFE	USD
¼	-	-	-	-	155 522 554	127.00	155 522 579	114.00
⅜	-	-	-	-	155 522 555	127.00	-	-
½	157 522 556	111.00	155 522 581	114.00	155 522 556	127.00	155 522 581	114.00

PVDF-HP

Size [inch]	Threaded NPT			
	PVDF-HP			
	Globe Body		Angle Body	
	PTFE	USD	PTFE	USD
¼	150 900 117	215.00	150 900 113	166.00
⅜	150 900 116	215.00	-	-
½	155 522 122	215.00	155 522 120	166.00

Angle Seat Valves

Type 301 Y-Globe Valve Translucent PVC

A

Size [inch]	ASTM Spigot			
	PE	USD	PTFE	USD
½	192 301 300	87.00	192 301 349	106.00
¾	192 301 350	95.00	192 301 399	115.00
1	192 301 400	112.00	192 301 449	136.00
1 ¼	192 301 450	136.00	192 301 499	214.00
1 ½	192 301 500	178.00	192 301 549	253.00
2	192 301 550	215.00	192 301 599	328.00
3	192 301 650	548.00	192 301 699	1,076.00



ASTM union connection available upon request

Type 304 Y-Check Valve Translucent PVC

A

Size [inch]	ASTM Spigot			
	EPDM	USD	FPM	USD
½	192 304 006	47.00	192 304 031	57.00
¾	192 304 007	55.00	192 304 032	68.00
1	192 304 008	64.00	192 304 033	79.00
1 ¼	192 304 009	82.00	192 304 034	106.00
1 ½	192 304 010	116.00	192 304 035	166.00
2	192 304 011	169.00	192 304 036	231.00
3	192 304 013	379.00	192 304 038	439.00



ASTM union connection available upon request

Type 306 Line Strainer Translucent PVC

A

Size [inch]	ASTM Spigot			
	EPDM	USD	FPM	USD
½	192 306 300	55.00	192 306 349	68.00
¾	192 306 350	65.00	192 306 399	75.00
1	192 306 400	72.00	192 306 449	80.00
1 ¼	192 306 450	125.00	192 306 499	136.00
1 ½	192 306 500	131.00	192 306 549	149.00
2	192 306 550	163.00	192 306 599	183.00
3	192 306 650	309.00	192 306 699	363.00



Standard valve includes 20 Mesh Screen

ASTM union connection available upon request

Type 306 Line Strainer Translucent PVC Silicone Free

A

Size [inch]	ASTM Spigot			
	EPDM	USD	FPM	USD
½	192 306 951 ^	70.00	192 306 961 ^	85.00
¾	192 306 952 ^	80.00	192 306 962 ^	95.00
1	192 306 953 ^	88.00	192 306 963 ^	102.00
1 ¼	192 306 954 ^	155.00	192 306 964 ^	171.00
1 ½	192 306 955 ^	153.00	192 306 965 ^	184.00
2	192 306 956 ^	188.00	192 306 966 ^	230.00
3	192 306 958 ^	330.00	192 306 968 ^	452.00



Standard valve includes 20 Mesh Screen

ASTM union connection available upon request

Accessories Type 306 Line Strainer

ScreenA

Size [inch]	PVC							
	8 Mesh, 3/32" Hole		12 Mesh, 1/16" Hole		20 Mesh, 1/32" Hole		30 Mesh, 1/64" Hole	
	Part No.	USD	Part No.	USD	Part No.	USD	Part No.	USD
½	161 305 336	5.00	161 305 337	5.00	161 305 338	5.00	161 305 339	5.00
¾	161 305 386	5.00	161 305 387	5.00	161 305 388	6.00	161 305 389	6.00
1	161 305 436	6.00	161 305 437	6.00	161 305 438	6.00	161 305 439	7.00
1 ¼	161 305 486	7.00	161 305 487	7.00	161 305 488	8.00	161 305 489	8.00
1 ½	161 305 536	9.00	161 305 537	8.00	161 305 538	9.00	161 305 539	9.00
2	161 305 586	12.00	161 305 587	11.00	161 305 588	16.00	161 305 589	16.00
3	161 305 686	20.00	161 305 687	20.00	161 305 688	21.00	161 305 689	21.00
Size [inch]	Stainless Steel							
	30 Mesh, 1/64" Hole							
	Part No.	USD						
½	161 486 100	11.00						
¾	161 486 101	15.00						
1	161 486 102	15.00						
1 ¼	161 486 103	17.00						
1 ½	161 486 104	20.00						
2	161 486 105	23.00						
3	161 486 107	44.00						



Screen SetA

Size [inch]	PVC	USD
½	161 483 126	18.00
¾	161 483 127	21.00
1	161 483 128	36.00
1 ¼	161 483 129	45.00
1 ½	161 483 130	54.00
2	161 483 131	62.00
3	161 483 133	93.00

Screen set (½ - 2") consists of: screen, screen support ring, and circlip

Screen set (3") consists of: screen and screen support ring.

20 Mesh screen standard

CirclipA

PlugA

Size [inch]	PP	USD
½	161 482 017	2.00
¾	161 482 018	2.00
1	161 482 019	2.00
1 ¼	161 482 020	3.00
1 ½	161 482 021	3.00
2	161 482 022	3.00

Size [inch]	PVC	USD
3	161 305 654	35.00

Type 133 Electrically Actuated Ball Valve



Socket/Threaded

Flanged

C

PVC

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 133 002	930.00	199 133 012	939.00	199 133 022	930.00	199 133 032	939.00
1/2	199 133 003	931.00	199 133 013	940.00	199 133 023	931.00	199 133 033	940.00
3/4	199 133 004	942.00	199 133 014	953.00	199 133 024	942.00	199 133 034	953.00
1	199 133 005	959.00	199 133 015	972.00	199 133 025	959.00	199 133 035	972.00
1 1/4	199 133 006	976.00	199 133 016	993.00	199 133 026	976.00	199 133 036	993.00
1 1/2	199 133 007	1,003.00	199 133 017	1,022.00	199 133 027	1,003.00	199 133 037	1,022.00
2	199 133 008	1,034.00	199 133 018	1,066.00	199 133 028	1,033.00	199 133 038	1,066.00
2 1/2	199 133 009	1,671.00	199 133 019	1,689.00	199 133 029	1,639.00	199 133 039	1,689.00
3	199 133 010	1,729.00	199 133 020	1,759.00	199 133 030	1,698.00	199 133 040	1,773.00
4	199 133 011	1,801.00	199 133 021	1,839.00	199 133 031	1,759.00	199 133 041	1,839.00

Size [inch]	Flanged							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
1/2	199 133 083	^ 1,005.00	199 133 093	^ 1,011.00	199 133 103	^ 1,005.00	199 133 113	^ 1,011.00
3/4	199 133 084	^ 1,011.00	199 133 094	^ 1,024.00	199 133 104	^ 1,011.00	199 133 114	^ 1,024.00
1	199 133 085	^ 1,033.00	199 133 095	^ 1,050.00	199 133 105	^ 1,033.00	199 133 115	^ 1,050.00
1 1/4	199 133 086	^ 1,073.00	199 133 096	^ 1,096.00	199 133 106	^ 1,073.00	199 133 116	^ 1,096.00
1 1/2	199 133 087	^ 1,088.00	199 133 097	^ 1,108.00	199 133 107	^ 1,088.00	199 133 117	^ 1,108.00
2	199 133 088	^ 1,097.00	199 133 098	^ 1,124.00	199 133 108	^ 1,097.00	199 133 118	^ 1,124.00
2 1/2	199 133 089	^ 1,639.00	199 133 099	^ 1,681.00	199 133 109	^ 1,639.00	199 133 119	^ 1,683.00
3	199 133 090	^ 1,689.00	199 133 100	^ 1,748.00	199 133 110	^ 1,689.00	199 133 120	^ 1,748.00
4	199 133 091	^ 1,773.00	199 133 101	^ 1,830.00	199 133 111	^ 1,773.00	199 133 121	^ 1,830.00

CPVC

C

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 133 402	953.00	199 133 412	962.00	199 133 422	953.00	199 133 432	962.00
1/2	199 133 403	966.00	199 133 413	972.00	199 133 423	966.00	199 133 433	972.00
3/4	199 133 404	982.00	199 133 414	996.00	199 133 424	982.00	199 133 434	996.00
1	199 133 405	1,001.00	199 133 415	1,028.00	199 133 425	1,001.00	199 133 435	1,028.00
1 1/4	199 133 406	1,056.00	199 133 416	1,070.00	199 133 426	1,056.00	199 133 436	1,070.00
1 1/2	199 133 407	1,093.00	199 133 417	1,132.00	199 133 427	1,093.00	199 133 437	1,132.00
2	199 133 408	1,143.00	199 133 418	1,191.00	199 133 428	1,143.00	199 133 438	1,191.00
2 1/2	199 133 409	1,839.00	199 133 419	1,918.00	199 133 429	1,876.00	199 133 439	1,918.00
3	199 133 410	1,918.00	199 133 420	2,016.00	199 133 430	1,978.00	199 133 440	2,067.00
4	199 133 411	2,045.00	199 133 421	2,141.00	199 133 431	2,067.00	199 133 441	2,215.00

Type 133 Electrically Actuated Ball Valve



Flanged



Socket Fusion



IR/Butt Fusion

CPVC

C

Size [inch]	Flanged							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	199 133 483 ^	1,024.00	199 133 493 ^	1,038.00	199 133 503 ^	1,024.00	199 133 513 ^	1,038.00
¾	199 133 484 ^	1,035.00	199 133 494 ^	1,050.00	199 133 504 ^	1,035.00	199 133 514 ^	1,050.00
1	199 133 485 ^	1,070.00	199 133 495 ^	1,088.00	199 133 505 ^	1,070.00	199 133 515 ^	1,088.00
1 ¼	199 133 486 ^	1,124.00	199 133 496 ^	1,141.00	199 133 506 ^	1,124.00	199 133 516 ^	1,141.00
1 ½	199 133 487 ^	1,141.00	199 133 497 ^	1,152.00	199 133 507 ^	1,141.00	199 133 517 ^	1,152.00
2	199 133 488 ^	1,231.00	199 133 498 ^	1,264.00	199 133 508 ^	1,231.00	199 133 518 ^	1,264.00
2 ½	199 133 489 ^	1,964.00	199 133 499 ^	2,016.00	199 133 509 ^	1,964.00	199 133 519 ^	2,016.00
3	199 133 490 ^	2,067.00	199 133 500 ^	2,141.00	199 133 510 ^	2,067.00	199 133 520 ^	2,133.00
4	199 133 491 ^	2,176.00	199 133 501 ^	2,258.00	199 133 511 ^	2,215.00	199 133 521 ^	2,258.00

Type 131 Electrically Actuated Ball Valve

PROGEF® Standard PP

C

d [mm]	Socket Fusion							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 131 002	948.00	199 131 012	962.00	199 131 042	948.00	199 131 052	962.00
20	199 131 003	950.00	199 131 013	963.00	199 131 043	950.00	199 131 053	963.00
25	199 131 004	965.00	199 131 014	980.00	199 131 044	965.00	199 131 054	980.00
32	199 131 005	985.00	199 131 015	999.00	199 131 045	985.00	199 131 055	999.00
40	199 131 006	1,011.00	199 131 016	1,035.00	199 131 046	1,011.00	199 131 056	1,035.00
50	199 131 007	1,046.00	199 131 017	1,066.00	199 131 047	1,046.00	199 131 057	1,066.00
63	199 131 008	1,084.00	199 131 018	1,133.00	199 131 048	1,084.00	199 131 058	1,133.00
75	199 131 009	1,918.00	199 131 019	2,016.00	199 131 049	1,595.00	199 131 059	2,016.00
90	199 131 010	2,023.00	199 131 020	2,141.00	199 131 050	1,683.00	199 131 060	2,141.00
110	199 131 011	2,141.00	199 131 021	2,289.00	199 131 051	1,787.00	199 131 061	2,289.00

d [mm]	IR/Butt Fusion							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	199 131 323	1,044.00	199 131 333	1,060.00	199 131 363	1,044.00	199 131 373	1,060.00
25	199 131 324	1,062.00	199 131 334	1,077.00	199 131 364	1,062.00	199 131 374	1,077.00
32	199 131 325	1,084.00	199 131 335	1,099.00	199 131 365	1,084.00	199 131 375	1,099.00
40	199 131 326	1,112.00	199 131 336	1,139.00	199 131 366	1,112.00	199 131 376	1,139.00
50	199 131 327	1,152.00	199 131 337	1,173.00	199 131 367	1,152.00	199 131 377	1,173.00
63	199 131 328	1,192.00	199 131 338	1,246.00	199 131 368	1,192.00	199 131 378	1,246.00
75	199 131 329	2,109.00	199 131 339	2,218.00	199 131 369	1,755.00	199 131 379	2,218.00
90	199 131 330	2,225.00	199 131 340	2,356.00	199 131 370	1,851.00	199 131 380	2,356.00
110	199 131 331	2,356.00	199 131 341	2,517.00	199 131 371	1,966.00	199 131 381	2,517.00

Type 131 Electrically Actuated Ball Valve



Socket Fusion



Flanged



IR/Butt Fusion

PROGEF® Standard PP

C

Size [inch]	Flanged							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	199 131 203 ^	1,014.00	199 131 213 ^	1,024.00	199 131 223 ^	1,014.00	199 131 233 ^	1,024.00
¾	199 131 204 ^	1,035.00	199 131 214 ^	1,057.00	199 131 224 ^	1,035.00	199 131 234 ^	1,057.00
1	199 131 205 ^	1,082.00	199 131 215 ^	1,097.00	199 131 225 ^	1,082.00	199 131 235 ^	1,097.00
1 ¼	199 131 206 ^	1,249.00	199 131 216 ^	1,262.00	199 131 226 ^	1,249.00	199 131 236 ^	1,262.00
1 ½	199 131 207 ^	1,263.00	199 131 217 ^	1,266.00	199 131 227 ^	1,263.00	199 131 237 ^	1,266.00
2	199 131 208 ^	1,377.00	199 131 218 ^	1,421.00	199 131 228 ^	1,377.00	199 131 238 ^	1,421.00
2 ½	199 131 209 ^	1,986.00	199 131 219 ^	2,086.00	199 131 229 ^	1,986.00	199 131 239 ^	2,086.00
3	199 131 210 ^	2,119.00	199 131 220 ^	2,225.00	199 131 230 ^	2,112.00	199 131 240 ^	2,225.00
4	199 131 211 ^	2,258.00	199 131 221 ^	2,371.00	199 131 231 ^	2,258.00	199 131 241 ^	2,371.00

Size [inch]	Threaded NPT							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 131 402	962.00	199 131 412	973.00	199 131 422	962.00	199 131 432	973.00
½	199 131 403	963.00	199 131 413	984.00	199 131 423	963.00	199 131 433	984.00
¾	199 131 404	976.00	199 131 414	993.00	199 131 424	976.00	199 131 434	993.00
1	199 131 405	999.00	199 131 415	1,022.00	199 131 425	999.00	199 131 435	1,022.00
1 ¼	199 131 406	1,029.00	199 131 416	1,056.00	199 131 426	1,029.00	199 131 436	1,056.00
1 ½	199 131 407	1,066.00	199 131 417	1,095.00	199 131 427	1,066.00	199 131 437	1,095.00
2	199 131 408	1,112.00	199 131 418	1,169.00	199 131 428	1,112.00	199 131 438	1,169.00

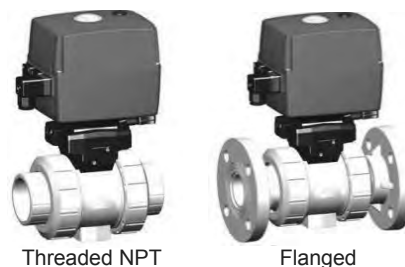
Type 132 Electrically Actuated Ball Valve

SYGEF® Standard PVDF

C

d [mm]	Socket Fusion				IR/Butt Fusion			
	100-230 V AC		24 V AC/DC		100-230 V AC		24 V AC/DC	
	FPM	USD	FPM	USD	FPM	USD	FPM	USD
16	199 132 012	1,109.00	199 132 052	1,109.00	-	-	-	-
20	199 132 013	1,120.00	199 132 053	1,120.00	199 132 113	1,120.00	199 132 153	1,120.00
25	199 132 014	1,167.00	199 132 054	1,167.00	199 132 114	1,167.00	199 132 154	1,167.00
32	199 132 015	1,237.00	199 132 055	1,237.00	199 132 115	1,237.00	199 132 155	1,237.00
40	199 132 016	1,329.00	199 132 056	1,329.00	199 132 116	1,329.00	199 132 156	1,329.00
50	199 132 017	1,509.00	199 132 057	1,509.00	199 132 117	1,509.00	199 132 157	1,509.00
63	199 132 018	1,729.00	199 132 058	1,729.00	199 132 118	1,729.00	199 132 158	1,729.00
75	199 132 019	3,492.00	199 132 059	3,492.00	199 132 119	3,492.00	199 132 159	3,492.00
90	199 132 020	4,190.00	199 132 060	4,190.00	199 132 120	4,190.00	199 132 160	4,190.00
110	199 132 021	4,819.00	199 132 061	4,819.00	199 132 121	4,819.00	199 132 161	4,819.00

Type 132 Electrically Actuated Ball Valve



SYGEF® Standard PVDF

Size [inch]	Threaded NPT				Flanged			
	100-230 V AC		24 V AC/DC		100-230 V AC		24 V AC/DC	
	FPM	USD	FPM	USD	FPM	USD	FPM	USD
3/8	199 132 412	1,146.00	199 132 432	1,146.00	-	-	-	-
1/2	199 132 413	1,160.00	199 132 433	1,160.00	199 132 213 ^	1,276.00	199 132 233 ^	1,276.00
3/4	199 132 414	1,199.00	199 132 434	1,199.00	199 132 214 ^	1,327.00	199 132 234 ^	1,327.00
1	199 132 415	1,278.00	199 132 435	1,278.00	199 132 215 ^	1,360.00	199 132 235 ^	1,360.00
1 1/4	199 132 416	1,485.00	199 132 436	1,485.00	199 132 216 ^	1,508.00	199 132 236 ^	1,508.00
1 1/2	199 132 417	1,515.00	199 132 437	1,515.00	199 132 217 ^	1,582.00	199 132 237 ^	1,582.00
2	199 132 418	1,744.00	199 132 438	1,744.00	199 132 218 ^	1,800.00	199 132 238 ^	1,800.00

Type 107 Electrically Actuated Ball Valve



PVC

Size [inch]	Socket/Threaded NPT				Flanged			
	100-230 V AC				100-230 V AC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 107 202	459.00	199 107 212	468.00	-	-	-	-
1/2	199 107 203	462.00	199 107 213	468.00	199 107 283 ^	516.00	199 107 293 ^	523.00
3/4	199 107 204	468.00	199 107 214	473.00	199 107 284 ^	523.00	199 107 294 ^	531.00
1	199 107 205	473.00	199 107 215	484.00	199 107 285 ^	531.00	199 107 295 ^	538.00
1 1/4	199 107 206	489.00	199 107 216	499.00	199 107 286 ^	562.00	199 107 296 ^	571.00
1 1/2	199 107 207	496.00	199 107 217	514.00	199 107 287 ^	565.00	199 107 297 ^	579.00
2	199 107 208	520.00	199 107 218	540.00	199 107 288 ^	588.00	199 107 298 ^	610.00

CPVC

Size [inch]	Socket/Threaded NPT				
	100-230 V AC				
	EPDM	USD	FPM	USD	
3/8	199 107 302	476.00	199 107 312	481.00	
1/2	199 107 303	477.00	199 107 313	484.00	
3/4	199 107 304	488.00	199 107 314	496.00	
1	199 107 305	500.00	199 107 315	510.00	
1 1/4	199 107 306	520.00	199 107 316	534.00	
1 1/2	199 107 307	536.00	199 107 317	556.00	
2	199 107 308	561.00	199 107 318	593.00	

Flanged CPVC Type 107 valves available upon request

Type 104 Electrically Actuated Ball Valve



PVC

C

Size [inch]	Socket/Threaded NPT							
	110 V AC				220 V AC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	150 104 403	267.00	150 104 413	270.00	150 104 203	267.00	150 104 213	270.00
¾	150 104 404	270.00	150 104 414	273.00	150 104 204	270.00	150 104 214	273.00
1	150 104 405	273.00	150 104 415	278.00	150 104 205	273.00	150 104 215	278.00
1 ¼	150 104 406	283.00	150 104 416	287.00	150 104 206	283.00	150 104 216	287.00
1 ½	150 104 407	286.00	150 104 417	297.00	150 104 207	286.00	150 104 217	297.00
2	150 104 408	300.00	150 104 418	313.00	150 104 208	300.00	150 104 218	313.00
Size [inch]	24 V DC							
	EPDM	USD	FPM	USD				
½	150 104 223	267.00	150 104 233	270.00				
¾	150 104 224	270.00	150 104 234	273.00				
1	150 104 225	273.00	150 104 235	278.00				
1 ¼	150 104 226	283.00	150 104 236	287.00				
1 ½	150 104 227	286.00	150 104 237	297.00				
2	150 104 228	300.00	150 104 238	313.00				

CPVC

C

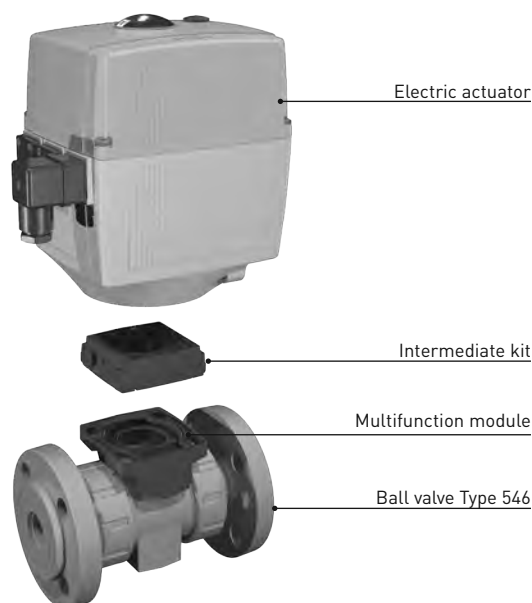
Size [inch]	Socket/Threaded NPT							
	110 V AC				220 V AC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	150 104 503	275.00	150 104 513	278.00	150 104 303	275.00	150 104 313	278.00
¾	150 104 504	279.00	150 104 514	286.00	150 104 304	279.00	150 104 314	286.00
1	150 104 505	288.00	150 104 515	294.00	150 104 305	288.00	150 104 315	294.00
1 ¼	150 104 506	300.00	150 104 516	307.00	150 104 306	300.00	150 104 316	307.00
1 ½	150 104 507	309.00	150 104 517	319.00	150 104 307	309.00	150 104 317	319.00
2	150 104 508	322.00	150 104 518	343.00	150 104 308	322.00	150 104 318	343.00
Size [inch]	24 V DC							
	EPDM	USD	FPM	USD				
½	150 104 323	275.00	150 104 333	278.00				
¾	150 104 324	279.00	150 104 334	286.00				
1	150 104 325	288.00	150 104 335	294.00				
1 ¼	150 104 326	300.00	150 104 336	307.00				
1 ½	150 104 327	309.00	150 104 337	319.00				
2	150 104 328	322.00	150 104 338	343.00				

Actuated Ball Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an "S" in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1" Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1" Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1" Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1" Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 130-133

- Limit switch reading off actuator
- Limit switch reading off valve (within MFM)
- Positioner
- Heating element
- Fail-safe return
- Spare battery kit
- Monitor print
- Cycle time extension
- Current monitor
- Cycle time monitoring
- Cycle counter

Type 107

- Limit switch reading off actuator
- Limit switch reading off valve (within MFM)
- Heating element
- Fail-safe return
- Spare battery kit

Electric Actuators

Part number	Description
198150180	EA11 Electric Actuator 100-230VAC
198150181	EA11 Electric Actuator 24VAC/DC
198150182	EA21 Electric Actuator 100-230VAC
198150183	EA21 Electric Actuator 24VAC/DC
198150184	EA31 Electric Actuator 100-230VAC
198150185	EA31 Electric Actuator 24VAC/DC

Components by Valve Type

Size d [inch - mm]	Type 130-133			Type 107		
	Multifunction Module	Intermediate Kit	Actuator	Multifunction Module	Intermediate Kit	Actuator
3/8 - 16	167482680	198150556	EA21	167482680	198150556	EA11
1/2 - 20	167482680	198150556	EA21	167482680	198150556	EA11
3/4 - 25	167482681	198150557	EA21	167482681	198150557	EA11
1 - 32	167482681	198150557	EA21	167482681	198150557	EA11
1 1/4 - 40	167482682	198150558	EA21	167482682	198150558	EA11
1 1/2 - 50	167482682	198150558	EA21	167482682	198150558	EA11
2 - 63	167482683	198150559	EA21	167482683	198150559	EA11
2 1/2 - 75	167482684	NR	EA31	NA	NA	NA
3 - 90	167482684	NR	EA31	NA	NA	NA
4 - 110	167482685	NR	EA31	NA	NA	NA

NR = Not Required

NA = Not Applicable

Accessories Actuated Ball Valves

Multifunction Modules

C

d - d [mm]	Size [inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	58.00	167 482 635	58.00
25 - 32	3/4 - 1	167 482 627	61.00	167 482 636	61.00
40 - 50	1 1/4 - 1 1/2	167 482 628	74.00	167 482 637	74.00
63	2	167 482 629	79.00	167 482 638	79.00
75 - 90	2 1/2 - 3	167 482 630	107.00	167 482 639	107.00
110	4	167 482 631	123.00	167 482 640	123.00

d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	200.00	167 482 653	200.00
25 - 32	3/4 - 1	167 482 663	206.00	167 482 654	206.00
40 - 50	1 1/4 - 1 1/2	167 482 664	219.00	167 482 655	219.00
63	2	167 482 665	222.00	167 482 656	222.00
75 - 90	2 1/2 - 3	167 482 666	255.00	167 482 657	255.00
110	4	167 482 667	271.00	167 482 658	271.00



Actuator Accessories

C

Type 131-133 and 107		
Description	Part No.	USD
Heating Element	199 190 086	109.00
Fail Safe Return	199 190 085	437.00
Heating Element and Fail Safe	199 190 087	446.00
Spare Battery Kit	198 151 317	372.00
Mechanical Limit Switch Ag Ni	199 190 092	100.00
Mechanical Limit Switch Au	199 190 093	140.00
Inductive Limit Switch PNP	199 190 095	355.00
Inductive Limit Switch NPN	199 190 096	355.00

Type 131-133		
Description	Part No.	USD
Monitor Print	199 190 099	265.00
Cycle Time Extension	199 190 080	58.00
Current Monitor	199 190 081	58.00
Cycle Time Monitoring	199 190 082	58.00
Cycle Counter	199 190 083	58.00
Position Sensor 4-20 mA	199 190 084	219.00
Positioner PE25	199 190 100	591.00
Middle Positioning Switch	199 190 094	146.00

Position Sensor required for Positioner PE25

Accessories Actuated Ball Valves

Local Control Box

C

Size	Voltage	Lights	Type	Part No.	USD
All	24V AC/DC, 100-220V AC	No	LCB 101	150 300 102	416.00
All	24 V AC/DC	Yes	LCB 201	150 300 103	517.00
All	110 V AC	Yes	LCB 202	150 300 104	485.00

Local Control Box Accessories

C

Description	Part No.	USD
5 ft. Lead - 4 conduit connection w/ shield	150 300 050	28.00

Spare Parts Actuated Ball Valves

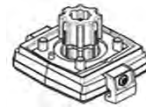


Electric Actuator

C

Voltage	EA 11		EA 21		EA 31	
	Part No.	USD	Part No.	USD	Part No.	USD
100-230 V	198 150 180	369.00	198 150 182	757.00	198 150 184	1,181.00
24 V	198 150 181	369.00	198 150 183	757.00	198 150 185	1,181.00

Standard actuators IP65 rated



Intermediate Kit

C

d - d [mm]	Size [inch]	Part No.	USD
16 - 20	3/8 - 1/2	198 150 556	25.00
25 - 30	3/4 - 1	198 150 557	25.00
40 - 50	1 1/4 - 1 1/2	198 150 558	25.00
63	2	198 150 559	25.00

Intermediate kit not required for 2-1/2" to 4"

Multifunction Modules

C

d - d [mm]	Size [inch]	Without Limit Switches	
		Part No.	USD
16 - 20	3/8 - 1/2	167 482 680	4.00
25 - 32	3/4 - 1	167 482 681	4.00
40 - 50	1 1/4 - 1 1/2	167 482 682	6.00
63	2	167 482 683	8.00
75 - 90	2 1/2 - 3	167 482 684	30.00
110	4	167 482 685	41.00



Actuator Spare Parts

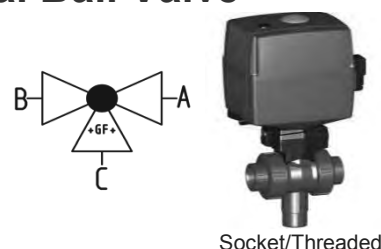
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Type	Description	Part No.	USD
EA 11 - 42	Female Plug only	150 101 020	12.00
EA 11 - 42	Plug Kit Male/Female Side	198 000 502	59.00
EA 11 - 42	Plug with 1/4 Conduit Connection	150 101 062	12.00



EA 11-42 Actuators are IP67 rated when used with Conduit Connection

Type 188 Electrically Actuated 3-Way Vertical Ball Valve



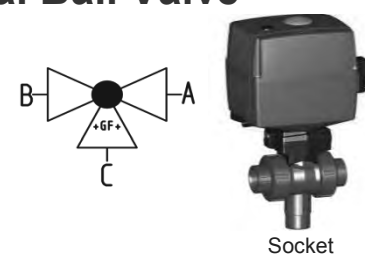
PVC

C

Size [inch]	100-230 V AC							
	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 188 572	1,020.00	199 188 582	1,030.00	199 188 692	1,020.00	199 188 702	1,030.00
1/2	199 188 573	1,022.00	199 188 583	1,032.00	199 188 693	1,022.00	199 188 703	1,032.00
3/4	199 188 574	1,036.00	199 188 584	1,046.00	199 188 694	1,036.00	199 188 704	1,046.00
1	199 188 575	1,060.00	199 188 585	1,072.00	199 188 695	1,060.00	199 188 705	1,072.00
1 1/4	199 188 576	1,078.00	199 188 586	1,095.00	199 188 696	1,078.00	199 188 706	1,095.00
1 1/2	199 188 577	1,147.00	199 188 587	1,169.00	199 188 697	1,147.00	199 188 707	1,169.00
2	199 188 578	1,186.00	199 188 588	1,220.00	199 188 698	1,186.00	199 188 708	1,220.00

Size [inch]	Diverter							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 188 000	1,020.00	199 188 007	1,030.00	199 188 014	1,020.00	199 188 021	1,030.00
1/2	199 188 001	1,022.00	199 188 008	1,032.00	199 188 015	1,022.00	199 188 022	1,032.00
3/4	199 188 002	1,036.00	199 188 009	1,046.00	199 188 016	1,036.00	199 188 023	1,046.00
1	199 188 003	1,060.00	199 188 010	1,072.00	199 188 017	1,060.00	199 188 024	1,072.00
1 1/4	199 188 004	1,078.00	199 188 011	1,095.00	199 188 018	1,078.00	199 188 025	1,095.00
1 1/2	199 188 005	1,147.00	199 188 012	1,169.00	199 188 019	1,147.00	199 188 026	1,169.00
2	199 188 006	1,186.00	199 188 013	1,220.00	199 188 020	1,186.00	199 188 027	1,220.00

Type 128 Electrically Actuated 3-Way Vertical Ball Valve



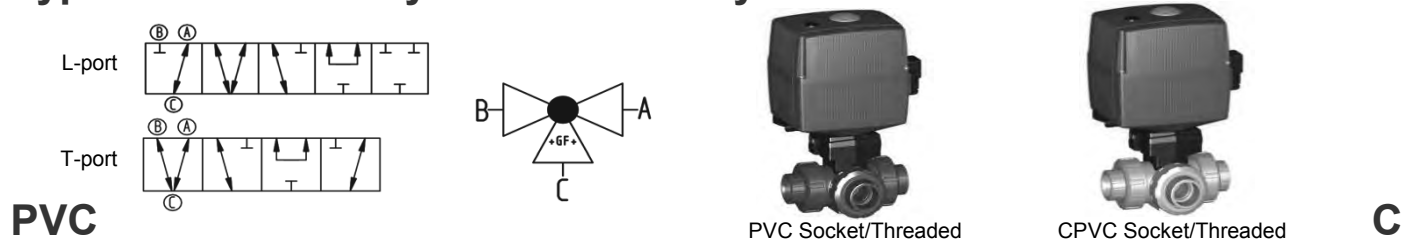
PVC

C

Size [inch]	100-230 V AC							
	Socket							
	L-port				Diverter			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	150 128 572	607.00	150 128 582	614.00	150 128 000	662.00	150 128 007	671.00
1/2	150 128 573	607.00	150 128 583	614.00	150 128 001	662.00	150 128 008	671.00
3/4	150 128 574	619.00	150 128 584	632.00	150 128 002	676.00	150 128 009	690.00
1	150 128 575	633.00	150 128 585	649.00	150 128 003	691.00	150 128 010	708.00
1 1/4	150 128 576	639.00	150 128 586	736.00	150 128 004	696.00	150 128 011	799.00
1 1/2	150 128 577	709.00	150 128 587	759.00	150 128 005	769.00	150 128 012	823.00
2	150 128 578	780.00	150 128 588	828.00	150 128 006	845.00	150 128 013	895.00

Type 188 assembled with EA 21 - Type 128 assembled with EA 11

Type 185 Electrically Actuated 3-Way Horizontal Ball Valve



Size [inch]	100-230 V AC							
	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 185 382	1,020.00	199 185 392	1,030.00	199 185 362	1,020.00	199 185 372	1,030.00
1/2	199 185 383	1,022.00	199 185 393	1,032.00	199 185 363	1,022.00	199 185 373	1,032.00
3/4	199 185 384	1,036.00	199 185 394	1,046.00	199 185 364	1,036.00	199 185 374	1,046.00
1	199 185 385	1,060.00	199 185 395	1,072.00	199 185 365	1,060.00	199 185 375	1,072.00
1 1/4	199 185 386	1,078.00	199 185 396	1,095.00	199 185 366	1,078.00	199 185 376	1,095.00
1 1/2	199 185 387	1,147.00	199 185 397	1,169.00	199 185 367	1,147.00	199 185 377	1,169.00
2	199 185 388	1,186.00	199 185 398	1,220.00	199 185 368	1,186.00	199 185 378	1,220.00

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 185 422	1,020.00	199 185 432	1,030.00	199 185 402	1,020.00	199 185 412	1,030.00
1/2	199 185 423	1,022.00	199 185 433	1,032.00	199 185 403	1,022.00	199 185 413	1,032.00
3/4	199 185 424	1,036.00	199 185 434	1,046.00	199 185 404	1,036.00	199 185 414	1,046.00
1	199 185 425	1,060.00	199 185 435	1,072.00	199 185 405	1,060.00	199 185 415	1,072.00
1 1/4	199 185 426	1,078.00	199 185 436	1,095.00	199 185 406	1,078.00	199 185 416	1,095.00
1 1/2	199 185 427	1,147.00	199 185 437	1,169.00	199 185 407	1,147.00	199 185 417	1,169.00
2	199 185 428	1,186.00	199 185 438	1,220.00	199 185 408	1,186.00	199 185 418	1,220.00

CPVC

Size [inch]	100-230 V AC							
	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 185 462	1,026.00	199 185 472	1,057.00	199 185 442	1,026.00	199 185 452	1,057.00
1/2	199 185 463	1,026.00	199 185 473	1,057.00	199 185 443	1,026.00	199 185 453	1,057.00
3/4	199 185 464	1,043.00	199 185 474	1,075.00	199 185 444	1,043.00	199 185 454	1,075.00
1	199 185 465	1,088.00	199 185 475	1,121.00	199 185 445	1,088.00	199 185 455	1,121.00
1 1/4	199 185 466	1,103.00	199 185 476	1,152.00	199 185 446	1,103.00	199 185 456	1,152.00
1 1/2	199 185 467	1,246.00	199 185 477	1,278.00	199 185 447	1,246.00	199 185 457	1,278.00
2	199 185 468	1,367.00	199 185 478	1,398.00	199 185 448	1,367.00	199 185 458	1,398.00

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 185 502	1,026.00	199 185 512	1,057.00	199 185 482	1,026.00	199 185 492	1,057.00
1/2	199 185 503	1,026.00	199 185 513	1,057.00	199 185 483	1,026.00	199 185 493	1,057.00
3/4	199 185 504	1,043.00	199 185 514	1,075.00	199 185 484	1,043.00	199 185 494	1,075.00
1	199 185 505	1,088.00	199 185 515	1,121.00	199 185 485	1,088.00	199 185 495	1,121.00
1 1/4	199 185 506	1,103.00	199 185 516	1,152.00	199 185 486	1,103.00	199 185 496	1,152.00
1 1/2	199 185 507	1,246.00	199 185 517	1,278.00	199 185 487	1,246.00	199 185 497	1,278.00
2	199 185 508	1,367.00	199 185 518	1,398.00	199 185 488	1,367.00	199 185 498	1,398.00

Type 186 Electrically Actuated 3-Way Horizontal Ball Valve

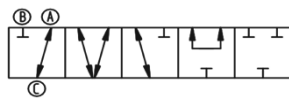
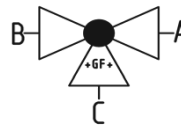
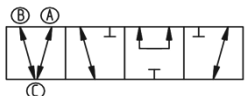
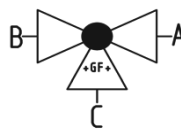


Socket Fusion/Threaded

IR/Butt Fusion

PROGEF® Standard PP

C

d [mm]	100-230 V AC							
	L-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 186 022	1,075.00	199 186 032	1,102.00	-	-	-	-
20	199 186 023	1,075.00	199 186 033	1,102.00	199 186 083	1,075.00	199 186 093	1,102.00
25	199 186 024	1,094.00	199 186 034	1,140.00	199 186 084	1,094.00	199 186 094	1,140.00
32	199 186 025	1,142.00	199 186 035	1,204.00	199 186 085	1,142.00	199 186 095	1,204.00
40	199 186 026	1,205.00	199 186 036	1,331.00	199 186 086	1,205.00	199 186 096	1,331.00
50	199 186 027	1,304.00	199 186 037	1,455.00	199 186 087	1,304.00	199 186 097	1,455.00
63	199 186 028	1,358.00	199 186 038	1,622.00	199 186 088	1,358.00	199 186 098	1,622.00
Size [inch]	Threaded NPT							
	EPDM	USD	FPM	USD	 			
3/8	199 186 322	1,075.00	199 186 332	1,102.00				
1/2	199 186 323	1,075.00	199 186 333	1,102.00				
3/4	199 186 324	1,094.00	199 186 334	1,140.00				
1	199 186 325	1,142.00	199 186 335	1,204.00				
1 1/4	199 186 326	1,205.00	199 186 336	1,331.00				
1 1/2	199 186 327	1,304.00	199 186 337	1,455.00				
2	199 186 328	1,358.00	199 186 338	1,622.00				
d [mm]	100-230 V AC							
	T-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 186 062	1,075.00	199 186 072	1,102.00	-	-	-	-
20	199 186 063	1,075.00	199 186 073	1,102.00	199 186 103	1,075.00	199 186 113	1,102.00
25	199 186 064	1,094.00	199 186 074	1,140.00	199 186 104	1,094.00	199 186 114	1,140.00
32	199 186 065	1,142.00	199 186 075	1,204.00	199 186 105	1,142.00	199 186 115	1,204.00
40	199 186 066	1,205.00	199 186 076	1,331.00	199 186 106	1,205.00	199 186 116	1,331.00
50	199 186 067	1,304.00	199 186 077	1,455.00	199 186 107	1,304.00	199 186 117	1,455.00
63	199 186 068	1,358.00	199 186 078	1,622.00	199 186 108	1,358.00	199 186 118	1,622.00
Size [inch]	Threaded NPT							
	EPDM	USD	FPM	USD	 			
3/8	199 186 342	1,075.00	199 186 352	1,102.00				
1/2	199 186 343	1,075.00	199 186 353	1,102.00				
3/4	199 186 344	1,094.00	199 186 354	1,140.00				
1	199 186 345	1,142.00	199 186 355	1,204.00				
1 1/4	199 186 346	1,205.00	199 186 356	1,331.00				
1 1/2	199 186 347	1,304.00	199 186 357	1,455.00				
2	199 186 348	1,358.00	199 186 358	1,622.00				

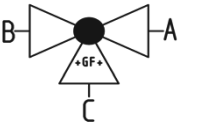
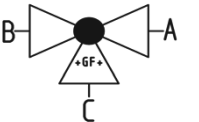
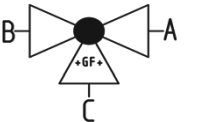
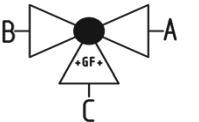
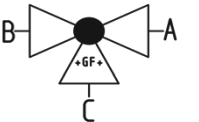
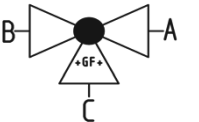
Type 187 Electrically Actuated 3-Way Horizontal Ball Valve



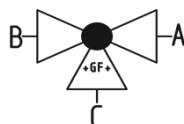
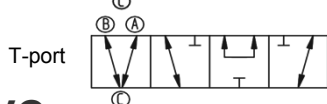
Socket Fusion/Threaded NPT IR/Butt Fusion

SYGEF® Standard PVDF

C

d - Size [mm]-[Inch]	100-230 V AC						
	L-port						
	Socket Fusion		IR/Butt Fusion		Threaded NPT		
	FPM	USD	FPM	USD	FPM	USD	
16 - ¾	199 187 092	1,323.00	-	-	199 187 242	1,323.00	
20 - ½	199 187 093	1,323.00	199 187 053	1,408.00	199 187 243	1,323.00	
25 - ¾	199 187 094	1,418.00	199 187 054	1,506.00	199 187 244	1,418.00	
32 - 1	199 187 095	1,557.00	199 187 055	1,645.00	199 187 245	1,557.00	
40 - 1 ¼	199 187 096	1,745.00	199 187 056	1,848.00	199 187 246	1,745.00	
50 - 1 ½	199 187 097	1,957.00	199 187 057	2,067.00	199 187 247	1,957.00	
63 - 2	199 187 098	2,351.00	199 187 058	2,438.00	199 187 248	2,351.00	
d [mm]	100-230 V AC						
	T-port						
	Socket Fusion		IR/Butt Fusion		Threaded NPT		
	FPM	USD	FPM	USD	FPM	USD	
16	199 187 112	1,323.00	-	-	199 187 252	1,323.00	
20	199 187 113	1,323.00	199 187 073	1,408.00	199 187 253	1,323.00	
25	199 187 114	1,418.00	199 187 074	1,506.00	199 187 254	1,418.00	
32	199 187 115	1,557.00	199 187 075	1,645.00	199 187 255	1,557.00	
40	199 187 116	1,745.00	199 187 076	1,848.00	199 187 256	1,745.00	
50	199 187 117	1,957.00	199 187 077	2,067.00	199 187 257	1,957.00	
63	199 187 118	2,351.00	199 187 078	2,438.00	199 187 258	2,351.00	

Type 125 Electrically Actuated 3-Way Horizontal Ball Valve



Socket

PVC

C

Size [inch]	100-230 V AC							
	Socket							
	L-port				T-port			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	150 125 382	607.00	150 125 392	614.00	150 125 422	607.00	150 125 432	614.00
1/2	150 125 383	607.00	150 125 393	614.00	150 125 423	607.00	150 125 433	614.00
3/4	150 125 384	619.00	150 125 394	632.00	150 125 424	619.00	150 125 434	632.00
1	150 125 385	633.00	150 125 395	649.00	150 125 425	633.00	150 125 435	649.00
1 1/4	150 125 386	639.00	150 125 396	736.00	150 125 426	639.00	150 125 436	736.00
1 1/2	150 125 387	709.00	150 125 397	759.00	150 125 427	709.00	150 125 437	759.00
2	150 125 388	780.00	150 125 398	828.00	150 125 428	780.00	150 125 438	828.00

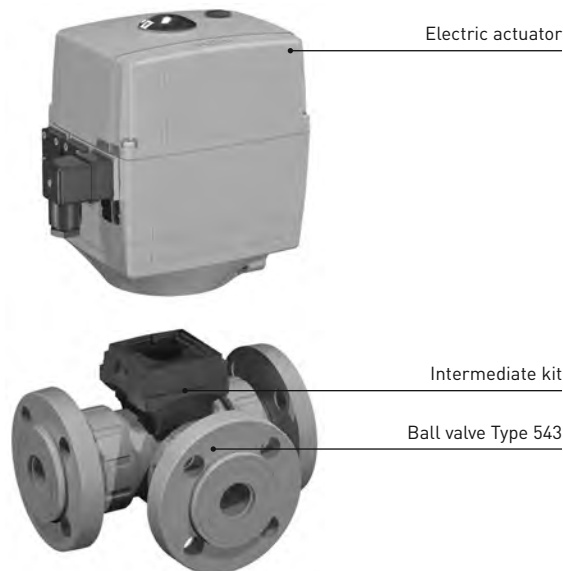
Type 185 assembled with EA 21 - Type 125 assembled with EA 11

Actuated Ball Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an "S" in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1" Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1" Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1" Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1" Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 185-188

- Limit Switch Reading off Actuator
- Limit Switch Reading off Valve (within MFM)
- Positioner
- Actuator Control Box
- Heating Element
- Fail-Safe Return
- Spare Battery Kit
- Monitor Print
- Cycle Time Extension
- Current Monitor
- Cycle Time Monitoring
- Cycle Counter

Type 125-128

- Limit Switch Reading off Actuator
- Limit Switch Reading off Valve (within MFM)
- Actuator Control Box
- Heating Element
- Fail-Safe Return
- Spare Battery Kit

Electric Actuators

Part number	Description
198150180	EA11 Electric Actuator 100-230VAC
198150181	EA11 Electric Actuator 24VAC/DC
198150182	EA21 Electric Actuator 100-230VAC
198150183	EA21 Electric Actuator 24VAC/DC
198150184	EA31 Electric Actuator 100-230VAC
198150185	EA31 Electric Actuator 24VAC/DC

Components by Valve Type

Size d [inch - mm]	Type 188		Type 185-187		Type 125		Type 128	
	Intermediate Kit	Actuator	Intermediate Kit	Actuator	Intermediate Kit	Actuator	Intermediate Kit	Actuator
3/8 - 16	167484941	EA21	167484941	EA21	167484941	EA11	167484941	EA11
1/2 - 20	167484941	EA21	167484941	EA21	167484941	EA11	167484941	EA11
3/4 - 25	167484942	EA21	167484942	EA21	167484942	EA11	167484942	EA11
1 - 32	167484942	EA21	167484942	EA21	167484942	EA11	167484942	EA11
1 1/4 - 40	167484943	EA21	167484943	EA21	167484943	EA11	167484943	EA11
1 1/2 - 50	167484943	EA21	167484943	EA21	167484943	EA11	167484943	EA11
2 - 63	167484944	EA21	167484944	EA21	167484944	EA11	167484944	EA11

Accessories 3-Way Electrically Actuated Ball Valve

Multifunction Module with Limit Switches

C

d - d [mm]	Size [inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3⁄8 - 1⁄2	167 482 626	58.00	167 482 635	58.00
25 - 32	3⁄4 - 1	167 482 627	61.00	167 482 636	61.00
40 - 50	1 1⁄4 - 1 1⁄2	167 482 628	74.00	167 482 637	74.00
63	2	167 482 629	79.00	167 482 638	79.00
d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3⁄8 - 1⁄2	167 482 662	200.00	167 482 653	200.00
25 - 32	3⁄4 - 1	167 482 663	206.00	167 482 654	206.00
40 - 50	1 1⁄4 - 1 1⁄2	167 482 664	219.00	167 482 655	219.00
63	2	167 482 665	222.00	167 482 656	222.00



Actuator Accessories

C

Type 185-188 and 125-128		
Description	Part No.	USD
Heating Element	199 190 086	109.00
Fail Safe Return	199 190 085	437.00
Heating Element and Fail Safe	199 190 087	446.00
Spare Battery Kit	198 151 317	372.00
Mechanical Limit Switch Ag Ni	199 190 092	100.00
Mechanical Limit Switch Au	199 190 093	140.00
Inductive Limit Switch PNP	199 190 095	355.00
Inductive Limit Switch NPN	199 190 096	355.00
Type 185-188		
Description	Part No.	USD
Monitor Print	199 190 099	265.00
Cycle Time Extension	199 190 080	58.00
Current Monitor	199 190 081	58.00
Cycle Time Monitoring	199 190 082	58.00
Cycle Counter	199 190 083	58.00
Position Sensor 4-20 mA	199 190 084	219.00
Positioner PE25	199 190 100	591.00
Middle Positioning Switch	199 190 094	146.00

Position Sensor required for Positioner PE25

Local Control Box

C

Size	Voltage	Lights	Type	Part No.	USD
All	24V AC/DC, 100-220V AC	No	LCB 101	150 300 102	416.00
All	24 V AC/DC	Yes	LCB 201	150 300 103	517.00
All	110 V AC	Yes	LCB 202	150 300 104	485.00

Local Control Box Accessories

C

Description	Part No.	USD
5 ft. Lead - 4 conduit connection w/ shield	150 300 050	28.00

Spare Parts 3-Way Electrically Actuated Ball Valve



Electric Actuator

C

Voltage	EA 11		EA 21	
	Part No.	USD	Part No.	USD
100-230 V	198 150 180	369.00	198 150 182	757.00
24 V	198 150 181	369.00	198 150 183	757.00

Standard actuators IP65 rated

Intermediate Kit

C

d [mm]	Size [inch]	Vertical		Horizontal	
		EPDM	USD	FPM	USD
16 - 20	3⁄8 - 1⁄2	167 484 945	115.00	167 484 941	115.00
25 - 32	3⁄4 - 1	167 484 946	128.00	167 484 942	128.00
40 - 50	1 1⁄4 - 1 1⁄2	167 484 947	138.00	167 484 943	138.00
63	2	167 484 948	153.00	167 484 944	153.00

Actuator Spare Parts

C

Type	Description	Part No.	USD
EA 11 - 42	Female Plug only	150 101 020	12.00
EA 11 - 42	Plug Kit Male/Female Side	198 000 502	59.00
EA 11 - 42	Plug with 1/4 Conduit Connection	150 101 062	12.00



EA 11-42 Actuators are IP67 rated when used with Conduit Connection

Type 140 Electrically Actuated Wafer Butterfly Valve



PVC

C

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 042	1,238.00	199 140 062	1,320.00	199 140 002	1,826.00	199 140 022	1,910.00
75 - 2 ½	199 140 043	1,243.00	199 140 063	1,325.00	199 140 003	1,833.00	199 140 023	1,913.00
90 - 3	199 140 044	1,251.00	199 140 064	1,333.00	199 140 004	1,843.00	199 140 024	1,924.00
110 - 4	199 140 045	1,268.00	199 140 065	1,354.00	199 140 005	1,857.00	199 140 025	1,945.00
140 - 5	199 140 046	1,308.00	199 140 066	1,423.00	199 140 006	1,936.00	199 140 026	2,051.00
160 - 6	199 140 047	1,308.00	199 140 067	1,423.00	199 140 007	1,936.00	199 140 027	2,051.00
225 - 8	199 140 048	1,789.00	199 140 068	1,852.00	199 140 008	2,411.00	199 140 028	2,475.00
280 - 10	199 140 049	3,487.00	199 140 069	3,937.00	-	-	-	-
315 - 12	199 140 050	3,754.00	199 140 070	4,571.00	-	-	-	-
355 - 14	199 140 051	Call	199 140 071	Call	-	-	-	-
400 - 16	199 140 052	Call	199 140 072	Call	-	-	-	-

24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 122	1,238.00	199 140 142	1,320.00	199 140 082	1,826.00	199 140 102	1,910.00
75 - 2 ½	199 140 123	1,243.00	199 140 143	1,325.00	199 140 083	1,833.00	199 140 103	1,913.00
90 - 3	199 140 124	1,251.00	199 140 144	1,333.00	199 140 084	1,843.00	199 140 104	1,924.00
110 - 4	199 140 125	1,268.00	199 140 145	1,354.00	199 140 085	1,857.00	199 140 105	1,945.00
140 - 5	199 140 126	1,308.00	199 140 146	1,423.00	199 140 086	1,936.00	199 140 106	2,051.00
160 - 6	199 140 127	1,308.00	199 140 147	1,423.00	199 140 087	1,936.00	199 140 107	2,051.00
225 - 8	199 140 128	1,789.00	199 140 148	1,852.00	199 140 088	2,411.00	199 140 108	2,475.00
280 - 10	199 140 129	3,487.00	199 140 149	3,937.00	-	-	-	-
315 - 12	199 140 130	3,754.00	199 140 150	4,571.00	-	-	-	-

Type 140 Electrically Actuated Wafer Butterfly Valve



CPVC

C

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 202	1,375.00	199 140 222	1,420.00	199 140 162	1,964.00	199 140 182	2,009.00
75 - 2 ½	199 140 203	1,412.00	199 140 223	1,474.00	199 140 163	2,001.00	199 140 183	2,063.00
90 - 3	199 140 204	1,479.00	199 140 224	1,543.00	199 140 164	2,068.00	199 140 184	2,131.00
110 - 4	199 140 205	1,545.00	199 140 225	1,612.00	199 140 165	2,133.00	199 140 185	2,202.00
140 - 5	199 140 206	1,705.00	199 140 226	1,787.00	199 140 166	2,333.00	199 140 186	2,414.00
160 - 6	199 140 207	1,705.00	199 140 227	1,787.00	199 140 167	2,333.00	199 140 187	2,414.00
225 - 8	199 140 208	2,213.00	199 140 228	2,322.00	199 140 168	2,838.00	199 140 188	2,945.00
24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 282	1,375.00	199 140 302	1,420.00	199 140 242	1,964.00	199 140 262	2,009.00
75 - 2 ½	199 140 283	1,412.00	199 140 303	1,474.00	199 140 243	2,001.00	199 140 263	2,063.00
90 - 3	199 140 284	1,479.00	199 140 304	1,543.00	199 140 244	2,068.00	199 140 264	2,131.00
110 - 4	199 140 285	1,545.00	199 140 305	1,612.00	199 140 245	2,133.00	199 140 265	2,202.00
140 - 5	199 140 286	1,705.00	199 140 306	1,787.00	199 140 246	2,333.00	199 140 266	2,414.00
160 - 6	199 140 287	1,705.00	199 140 307	1,787.00	199 140 247	2,333.00	199 140 267	2,414.00
225 - 8	199 140 288	2,213.00	199 140 308	2,322.00	199 140 248	2,838.00	199 140 268	2,945.00

Type 140 Electrically Actuated Wafer Butterfly Valve



PROGEF® Standard PP

C

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 362	1,320.00	199 140 382	1,387.00	199 140 322	1,910.00	199 140 342	1,822.00
75 - 2 ½	199 140 363	1,334.00	199 140 383	1,412.00	199 140 323	1,924.00	199 140 343	2,001.00
90 - 3	199 140 364	1,367.00	199 140 384	1,443.00	199 140 324	1,955.00	199 140 344	2,034.00
110 - 4	199 140 365	1,423.00	199 140 385	1,517.00	199 140 325	2,113.00	199 140 345	2,108.00
140 - 5	199 140 366	1,531.00	199 140 386	1,715.00	199 140 326	2,113.00	199 140 346	2,341.00
160 - 6	199 140 367	1,531.00	199 140 387	1,715.00	199 140 327	2,161.00	199 140 347	2,341.00
225 - 8	199 140 368	1,986.00	199 140 388	2,143.00	199 140 328	2,609.00	199 140 348	2,767.00
280 - 10	199 140 369	3,293.00	199 140 389	3,657.00	-	-	-	-
315 - 12	199 140 370	3,431.00	199 140 390	3,712.00	-	-	-	-
355 - 14	199 140 371	Call	199 140 391	Call	-	-	-	-
400 - 16	199 140 372	Call	199 140 392	Call	-	-	-	-
450 - 18	199 140 373	Call	199 140 393	Call	-	-	-	-
500 - 20	199 140 374	Call	199 140 394	Call	-	-	-	-
630 - 24	199 140 375	Call	199 140 395	Call	-	-	-	-
24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 140 442	1,320.00	199 140 462	1,387.00	199 140 402	1,910.00	199 140 422	1,977.00
75 - 2 ½	199 140 443	1,412.00	199 140 463	1,412.00	199 140 403	1,924.00	199 140 423	2,001.00
90 - 3	199 140 444	1,443.00	199 140 464	1,443.00	199 140 404	1,955.00	199 140 424	2,034.00
110 - 4	199 140 445	1,517.00	199 140 465	1,517.00	199 140 405	2,014.00	199 140 425	2,108.00
140 - 5	199 140 446	1,715.00	199 140 466	1,715.00	199 140 406	2,161.00	199 140 426	2,341.00
160 - 6	199 140 447	1,715.00	199 140 467	1,715.00	199 140 407	2,161.00	199 140 427	2,341.00
225 - 8	199 140 448	2,143.00	199 140 468	2,143.00	199 140 408	2,609.00	199 140 428	2,767.00
280 - 10	199 140 449	3,293.00	199 140 469	3,657.00	-	-	-	-
315 - 12	199 140 450	3,497.00	199 140 470	3,859.00	-	-	-	-

Type 140 Electrically Actuated Wafer Butterfly Valve



SYGEF® Standard PVDF

C

100-230 V AC						
d - Size [mm]-[inch]	Without Manual Override				With Manual Override	
	FPM	USD	PTFE/FPM	USD	FPM	USD
63 - 2	199 140 582	1,745.00	199 140 642	2,509.00	199 140 562	2,363.00
75 - 2 ½	199 140 583	1,886.00	199 140 643	2,631.00	199 140 563	2,503.00
90 - 3	199 140 584	2,046.00	199 140 644	2,754.00	199 140 564	2,664.00
110 - 4	199 140 585	2,215.00	199 140 645	2,966.00	199 140 565	2,835.00
140 - 5	199 140 586	2,779.00	199 140 646	4,011.00	199 140 566	3,439.00
160 - 6	199 140 587	2,779.00	199 140 647	4,011.00	199 140 567	3,439.00
225 - 8	199 140 588	3,634.00	199 140 648	4,904.00	199 140 568	4,289.00
280 - 10	199 140 589	5,484.00	199 140 649	6,855.00	-	-
315 - 12	199 140 590	5,655.00	199 140 650	7,671.00	-	-
24 V AC/DC						
d - Size [mm]-[inch]	Without Manual Override				With Manual Override	
	FPM	USD	PTFE/FPM	USD	FPM	USD
63 - 2	199 140 622	1,745.00	199 140 662	2,509.00	199 140 602	2,363.00
75 - 2 ½	199 140 623	1,886.00	199 140 663	2,631.00	199 140 603	2,503.00
90 - 3	199 140 624	2,046.00	199 140 664	2,754.00	199 140 604	2,664.00
110 - 4	199 140 625	2,215.00	199 140 665	2,966.00	199 140 605	2,835.00
140 - 5	199 140 626	2,779.00	199 140 666	4,011.00	199 140 606	3,439.00
160 - 6	199 140 627	2,779.00	199 140 667	4,011.00	199 140 607	3,439.00
225 - 8	199 140 628	3,634.00	199 140 668	4,904.00	199 140 608	4,289.00
280 - 10	199 140 629	5,484.00	199 140 669	6,855.00	-	-
315 - 12	199 140 630	6,137.00	199 140 670	7,671.00	-	-

Type 144 Electrically Actuated Lug Butterfly Valve



PVC

C

Size [inch]	100-230 V AC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 042	1,528.00	199 144 062	1,601.00	199 144 002	2,116.00	199 144 022	2,191.00
2 ½	199 144 043	1,542.00	199 144 063	1,619.00	199 144 003	2,132.00	199 144 023	2,207.00
3	199 144 044	1,562.00	199 144 064	1,617.00	199 144 004	2,132.00	199 144 024	2,208.00
4	199 144 045	1,860.00	199 144 065	1,969.00	199 144 005	2,449.00	199 144 025	2,560.00
5	199 144 046	2,054.00	199 144 066	2,224.00	199 144 006	2,682.00	199 144 026	2,852.00
6	199 144 047	2,054.00	199 144 067	2,224.00	199 144 007	2,682.00	199 144 027	2,852.00
8	199 144 048	2,760.00	199 144 068	2,956.00	199 144 008	3,382.00	199 144 028	3,579.00
10	199 144 049	4,124.00	199 144 069	4,271.00	-	-	-	-
12	199 144 050	4,365.00	199 144 070	4,952.00	-	-	-	-
Size [inch]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 122	1,528.00	199 144 142	1,601.00	199 144 082	2,116.00	199 144 102	2,191.00
2 ½	199 144 123	1,542.00	199 144 143	1,619.00	199 144 083	2,132.00	199 144 103	2,207.00
3	199 144 124	1,540.00	199 144 144	1,617.00	199 144 084	2,132.00	199 144 104	2,208.00
4	199 144 125	1,860.00	199 144 145	1,969.00	199 144 085	2,449.00	199 144 105	2,560.00
5	199 144 126	2,054.00	199 144 146	2,224.00	199 144 086	2,682.00	199 144 106	2,852.00
6	199 144 127	2,054.00	199 144 147	2,224.00	199 144 087	2,682.00	199 144 107	2,852.00
8	199 144 128	2,760.00	199 144 148	2,956.00	199 144 088	3,382.00	199 144 108	3,579.00
10	199 144 129	4,124.00	199 144 149	4,271.00	-	-	-	-
12	199 144 130	4,365.00	199 144 150	4,952.00	-	-	-	-

All Type 144 valves have ANSI bolt pattern.

Type 144 Electrically Actuated Lug Butterfly Valve



Without MO

With MO

C

CPVC

Size [inch]	100-230 V AC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 202	1,715.00	199 144 222	1,802.00	199 144 162	2,304.00	199 144 182	2,391.00
2 ½	199 144 203	1,743.00	199 144 223	1,849.00	199 144 163	2,332.00	199 144 183	2,438.00
3	199 144 204	1,776.00	199 144 224	1,842.00	199 144 164	2,365.00	199 144 184	2,430.00
4	199 144 205	2,236.00	199 144 225	2,396.00	199 144 165	2,824.00	199 144 185	2,986.00
5	199 144 206	2,579.00	199 144 226	2,801.00	199 144 166	3,207.00	199 144 186	3,428.00
6	199 144 207	2,579.00	199 144 227	2,801.00	199 144 167	3,207.00	199 144 187	3,428.00
8	199 144 208	3,427.00	199 144 228	3,736.00	199 144 168	4,052.00	199 144 188	4,359.00
10	199 144 209	7,419.00	199 144 229	8,091.00	-	-	-	-
12	199 144 210	8,823.00	199 144 230	9,056.00	-	-	-	-
Size [inch]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 282	1,715.00	199 144 302	1,802.00	199 144 242	2,304.00	199 144 262	2,391.00
2 ½	199 144 283	1,743.00	199 144 303	1,849.00	199 144 243	2,332.00	199 144 263	2,438.00
3	199 144 284	1,776.00	199 144 304	1,842.00	199 144 244	2,365.00	199 144 264	2,430.00
4	199 144 285	2,236.00	199 144 305	2,396.00	199 144 245	2,824.00	199 144 265	2,986.00
5	199 144 286	2,579.00	199 144 306	2,801.00	199 144 246	3,207.00	199 144 266	3,428.00
6	199 144 287	2,579.00	199 144 307	2,801.00	199 144 247	3,207.00	199 144 267	3,428.00
8	199 144 288	3,427.00	199 144 308	3,736.00	199 144 248	4,052.00	199 144 268	4,359.00
10	199 144 289	7,419.00	199 144 309	8,091.00	-	-	-	-
12	199 144 290	8,823.00	199 144 310	9,056.00	-	-	-	-

All Type 144 valves have ANSI bolt pattern.

PTFE seals available upon request - Please call Insides Sales for pricing

Type 144 Electrically Actuated Lug Butterfly Valve



PROGEF® Standard PP

C

d [mm]	100-230 V AC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 362	1,766.00	199 144 382	1,824.00	199 144 322	2,356.00	199 144 342	2,259.00
2 ½	199 144 363	1,898.00	199 144 383	2,017.00	199 144 323	2,488.00	199 144 343	2,606.00
3	199 144 364	1,958.00	199 144 384	2,039.00	199 144 324	2,546.00	199 144 344	2,630.00
4	199 144 365	2,197.00	199 144 385	2,271.00	199 144 325	2,887.00	199 144 345	2,862.00
5	199 144 366	2,683.00	199 144 386	3,201.00	199 144 326	3,774.00	199 144 346	3,827.00
6	199 144 367	2,683.00	199 144 387	3,201.00	199 144 327	3,313.00	199 144 347	3,827.00
8	199 144 368	3,474.00	199 144 388	3,722.00	199 144 328	4,097.00	199 144 348	4,346.00
10	199 144 369	4,269.00	199 144 389	5,003.00	-	-	-	-
12	199 144 370	4,737.00	199 144 390	5,580.00	-	-	-	-

d [mm]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 144 442	1,766.00	199 144 462	1,824.00	199 144 402	2,356.00	199 144 422	2,414.00
2 ½	199 144 443	1,976.00	199 144 463	2,017.00	199 144 403	2,488.00	199 144 423	2,606.00
3	199 144 444	2,034.00	199 144 464	2,039.00	199 144 404	2,546.00	199 144 424	2,630.00
4	199 144 445	2,291.00	199 144 465	2,271.00	199 144 405	2,788.00	199 144 425	2,862.00
5	199 144 446	2,867.00	199 144 466	3,201.00	199 144 406	3,313.00	199 144 426	3,827.00
6	199 144 447	2,867.00	199 144 467	3,201.00	199 144 407	3,313.00	199 144 427	3,827.00
8	199 144 448	3,631.00	199 144 468	3,722.00	199 144 408	4,097.00	199 144 428	4,346.00
10	199 144 449	4,269.00	199 144 469	5,003.00	-	-	-	-
12	199 144 450	4,803.00	199 144 470	5,727.00	-	-	-	-

PTFE seals available upon request - Please call Inside Sales for pricing

All Type 144 valves have ANSI bolt pattern.

Type 144 Electrically Actuated Lug Butterfly Valve



SYGEF® Standard PVDF

C

d [mm]	100-230 V AC					
	Without Manual Override				With Manual Override	
	FPM	USD	PTFE/FPM	USD	FPM	USD
2	199 144 582	2,037.00	199 144 642	2,915.00	199 144 562	2,655.00
2 ½	199 144 583	2,297.00	199 144 643	3,125.00	199 144 563	2,914.00
3	199 144 584	2,290.00	199 144 644	3,053.00	199 144 564	2,908.00
4	199 144 585	2,524.00	199 144 645	3,667.00	199 144 565	3,144.00
5	199 144 586	3,477.00	199 144 646	5,412.00	199 144 566	4,137.00
6	199 144 587	3,477.00	199 144 647	5,412.00	199 144 567	4,137.00
8	199 144 588	4,183.00	199 144 648	7,879.00	199 144 568	4,838.00
10	199 144 589	6,028.00	199 144 649	9,899.00	-	-
12	199 144 590	6,588.00	199 144 650	11,567.00	-	-
d [mm]	24 V AC/DC					
	Without Manual Override				With Manual Override	
	FPM	USD	PTFE/FPM	USD	FPM	USD
2	199 144 622	2,037.00	199 144 662	2,915.00	199 144 602	2,769.00
2 ½	199 144 623	2,297.00	199 144 663	3,125.00	199 144 603	2,997.00
3	199 144 624	2,290.00	199 144 664	3,053.00	199 144 604	2,963.00
4	199 144 625	2,524.00	199 144 665	3,667.00	199 144 605	3,536.00
5	199 144 626	3,477.00	199 144 666	5,412.00	199 144 606	4,840.00
6	199 144 627	3,477.00	199 144 667	5,412.00	199 144 607	4,840.00
8	199 144 628	4,183.00	199 144 668	7,879.00	199 144 608	7,264.00
10	199 144 629	6,028.00	199 144 669	9,899.00	-	-
12	199 144 630	7,070.00	199 144 670	11,567.00	-	-

All Type 144 valves have ANSI bolt pattern.

Type 563 Electrically Actuated Aqua Water Valve

PVC/EPDM

C

Size [inch]	75 PSI	USD	150 PSI	USD
2	150 563 070	684.00	150 563 080	998.00
2 ½	150 563 071	713.00	150 563 081	1,005.00
3	150 563 072	720.00	150 563 082	1,014.00
4	-	-	150 563 083	1,019.00
5	-	-	150 563 084	1,079.00
6	-	-	150 563 085	1,079.00
8	-	-	150 563 086	1,536.00
10	-	-	150 563 087	2,138.00
12	150 563 078	2,612.00	-	-



For water use only

2" to 3" - Rated to 75 PSI - Assembled with EA 21 Actuator

12" - Rated to 75 PSI - Assembled with EA 31 Actuator

2" to 10" - Rated to 150 PSI - Assembled with EA 42 Actuator

VFA Electrically Actuated Butterfly Valve

PVC with EPDM/Santoprene

C

Size [inch]	75 PSI	USD	150 PSI	USD
2 ½	150 985 071	655.00	150 985 081	948.00
3	150 985 072	664.00	150 985 082	957.00
4	-	-	150 985 083	963.00
5	-	-	150 985 084	973.00
6	-	-	150 985 085	992.00
8	-	-	150 985 086	1,312.00

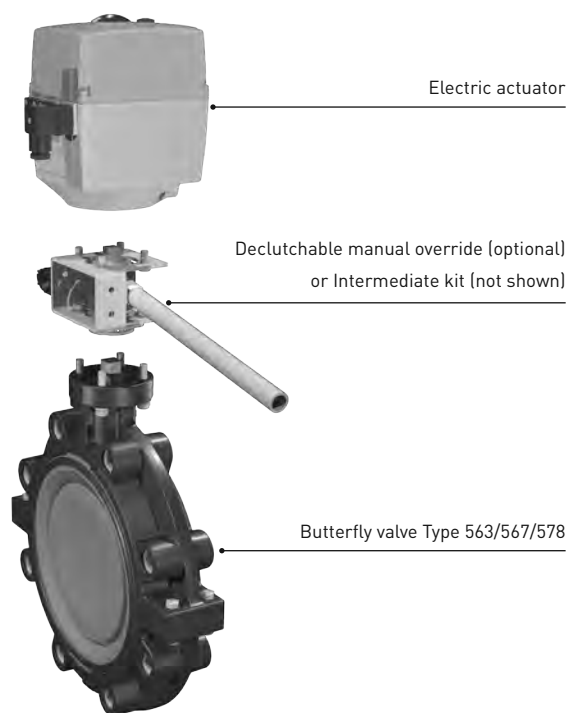
8" VFA valve is rated for 90 PSI actuated.

Actuated Butterfly Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an "S" in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1" Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1" Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1" Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1" Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 140–144

- Limit Switch Reading off Actuator
- Integrated Limit Switch Reading off Valve
- Positioner
- Actuator Control Box
- Stem Extension
- Heating Element
- Fail-Safe Return
- Spare Battery Kit
- Monitor Print
- Cycle Time Extension
- Current Monitor
- Cycle Time Monitoring
- Cycle Counter

Components by Valve Type

Size d [inch - mm]	Type 140–144		
	Intermediate Kit w/ MO	Intermediate Kit w/o MO	Actuator
2 - 63	198000623	198000601	EA31
2½ - 75	198000623	198000601	EA31
3 - 90	198000623	198000601	EA31
4 - 110	198000624	198000602	EA31
5 - 140	198000624	198000602	EA31
6 - 160	198000625	198000599	EA31
8 - 225	198000627	198000603	EA42
10 - 280	NA	198000732	EA42
12 - 315	NA	198000732	EA42

NA = Not Applicable

Electric Actuators

Part number	Description
198150184	EA31 Electric Actuator 100-230VAC
198150185	EA31 Electric Actuator 24VAC/DC
198150186	EA42 Electric Actuator 100-230VAC
198150187	EA42 Electric Actuator 24VAC/DC

Accessories Butterfly Valves

Integrated Position Indicator

C

Size [inch]	Mechanical Limit Switch Kit					
	250 V AC / DC 6 A		4 - 30 V DC 100 mA			
	Ag Ni	USD	Au	USD		
2 - 3	161 486 859	287.00	161 486 858	287.00		
4 - 5	161 486 305	287.00	161 486 304	287.00		
6 - 8	161 486 010	287.00	161 486 009	287.00		
Size [inch]	Inductive Limit Switch Kit					
	1 - 8 V		5 - 30 V DC 100 mA		5 - 30 V DC 100 mA	
	Namur	USD	PNP	USD	NPN	USD
2 - 3	161 486 855	662.00	161 486 856	643.00	161 486 857	662.00
4 - 5	161 486 301	662.00	161 486 302	643.00	161 486 303	662.00
6 - 8	161 486 006	662.00	161 486 007	643.00	161 486 008	662.00

Actuators Accessories

C

Description	Part No.	USD
Heating Element	199 190 086	109.00
Fail Safe Return	199 190 085	437.00
Heating Element and Fail Safe	199 190 087	446.00
Spare Battery Kit	198 151 317	372.00
Mechanical Limit Switch Ag Ni	199 190 092	100.00
Mechanical Limit Switch Au	199 190 093	140.00
Inductive Limit Switch PNP	199 190 095	355.00
Inductive Limit Switch NPN	199 190 096	355.00
Monitor Print	199 190 099	265.00
Cycle Time Extension	199 190 080	58.00
Current Monitor	199 190 081	58.00
Cycle Time Monitoring	199 190 082	58.00
Cycle Counter	199 190 083	58.00
Position Sensor 4-20 mA	199 190 084	219.00
Positioner PE25	199 190 100	591.00
Middle Positioning Switch	199 190 094	146.00

Position Sensor required for Positioner PE25

Local Control Box

C

Size	Voltage	Lights	Type	Part No.	USD
All	24V AC/DC, 100-220V AC	No	LCB 101	150 300 102	416.00
All	24 V AC/DC	Yes	LCB 201	150 300 103	517.00
All	110 V AC	Yes	LCB 202	150 300 104	485.00

Local Control Box Accessories

C

Description	Part No.	USD
5 ft. Lead - 4 conduit connection w/ shield	150 300 050	28.00

Accessories Electrically Actuated Butterfly Valves

Stem Extension C

Size [inch]	Description	SS 316	USD
2 - 3	1st foot SS316	150 567 001	592.00
4 - 5	1st foot SS316	150 567 002	592.00
6	1st foot SS316	150 567 003	592.00
8	1st foot SS316	150 567 004	592.00
10 - 12	1st foot SS316	150 567 005	592.00
All Sizes	Charge per Additional Foot	-	115.00

Minimum length of 6 inches

Spare Parts Electrically Actuated Butterfly Valve



Electric Actuator C

Voltage	EA 21		EA 31		EA 42	
	Part No.	USD	Part No.	USD	Part No.	USD
100-230 V	198 150 182	757.00	198 150 184	1,181.00	198 150 186	1,635.00
24 V	198 150 183	757.00	198 150 185	1,181.00	198 150 187	1,635.00

Standard actuators IP65 rated

Intermediate Kit C

d - Size [mm]-[inch]	Type	Without Manual Override		With Manual Override	
		Part No.	USD	Part No.	USD
63 - 2	EA 31	198 000 601	105.00	198 000 623	824.00
75 - 2 ½	EA 31	198 000 601	105.00	198 000 623	824.00
90 - 3	EA 31	198 000 601	105.00	198 000 623	824.00
110 - 4	EA 31	198 000 602	129.00	198 000 624	824.00
140 - 5	EA 31	198 000 602	129.00	198 000 624	824.00
160 - 6	EA 31	198 000 599	32.00	198 000 625	824.00
225 - 8	EA 42	198 000 603	108.00	198 000 627	824.00
280 - 10	EA 42	198 000 732	84.00	-	-
315 - 12	EA 42	198 000 732	84.00	-	-

Actuator Spare Parts C

Type	Description	Part No.	USD
EA 11 - 42	Female Plug only	150 101 020	12.00
EA 11 - 42	Plug Kit Male/Female Side	198 000 502	59.00
EA 11 - 42	Plug with 1/4 Conduit Connection	150 101 062	12.00



EA 11-42 Actuators are IP67 rated when used with Conduit Connection

Type 233 Pneumatically Actuated Ball Valve

PVC

C

	With Manual Override							
	Socket/Threaded NPT							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 233 002	477.00	199 233 012	488.00	199 233 022	477.00	199 233 032	488.00
1/2	199 233 003	480.00	199 233 013	489.00	199 233 023	480.00	199 233 033	489.00
3/4	199 233 004	488.00	199 233 014	496.00	199 233 024	488.00	199 233 034	496.00
1	199 233 005	497.00	199 233 015	507.00	199 233 025	497.00	199 233 035	507.00
1 1/4	199 233 006	561.00	199 233 016	571.00	199 233 026	561.00	199 233 036	571.00
1 1/2	199 233 007	567.00	199 233 017	593.00	199 233 027	567.00	199 233 037	593.00
2	199 233 008	598.00	199 233 018	624.00	199 233 028	598.00	199 233 038	624.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
3/8	199 233 042	454.00	199 233 052	462.00				
1/2	199 233 043	455.00	199 233 053	462.00				
3/4	199 233 044	462.00	199 233 054	471.00				
1	199 233 045	471.00	199 233 055	481.00				
1 1/4	199 233 046	523.00	199 233 056	535.00				
1 1/2	199 233 047	533.00	199 233 057	557.00				
2	199 233 048	562.00	199 233 058	588.00				
	Without Manual Override							
	Socket/Threaded NPT (3/8" - 2")							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 233 062	366.00	199 233 072	374.00	199 233 082	366.00	199 233 092	374.00
1/2	199 233 063	367.00	199 233 073	374.00	199 233 083	367.00	199 233 093	374.00
3/4	199 233 064	374.00	199 233 074	381.00	199 233 084	374.00	199 233 094	381.00
1	199 233 065	381.00	199 233 075	394.00	199 233 085	381.00	199 233 095	394.00
1 1/4	199 233 066	446.00	199 233 076	458.00	199 233 086	446.00	199 233 096	458.00
1 1/2	199 233 067	454.00	199 233 077	477.00	199 233 087	454.00	199 233 097	477.00
2	199 233 068	488.00	199 233 078	512.00	199 233 088	488.00	199 233 098	512.00
2 1/2	199 233 069	768.00	199 233 079	827.00	199 233 089	783.00	199 233 099	827.00
3	199 233 070	901.00	199 233 080	973.00	199 233 090	920.00	199 233 100	973.00
4	199 233 071	961.00	199 233 081	1,049.00	199 233 091	983.00	199 233 101	1,049.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
3/8	199 233 102	341.00	199 233 112	346.00				
1/2	199 233 103	341.00	199 233 113	347.00				
3/4	199 233 104	346.00	199 233 114	358.00				
1	199 233 105	358.00	199 233 115	369.00				
1 1/4	199 233 106	409.00	199 233 116	423.00				
1 1/2	199 233 107	414.00	199 233 117	443.00				
2	199 233 108	450.00	199 233 118	474.00				
2 1/2	199 233 109	666.00	199 233 119	709.00				
3	199 233 110	739.00	199 233 120	796.00				
4	199 233 111	805.00	199 233 121	872.00				

Type 233 Pneumatically Actuated Ball Valve

PVC

C

	With Manual Override											
	Flanged											
Size [inch]	Fail Safe to Close (FC)					Fail Safe to Open (FO)						
	EPDM	USD	FPM	USD		EPDM	USD	FPM	USD			
½	199 233 123	^	537.00	199 233 133	^	545.00	199 233 143	^	537.00	199 233 153	^	545.00
¾	199 233 124	^	545.00	199 233 134	^	556.00	199 233 144	^	545.00	199 233 154	^	556.00
1	199 233 125	^	556.00	199 233 135	^	564.00	199 233 145	^	556.00	199 233 155	^	564.00
1 ¼	199 233 126	^	643.00	199 233 136	^	653.00	199 233 146	^	643.00	199 233 156	^	653.00
1 ½	199 233 127	^	659.00	199 233 137	^	673.00	199 233 147	^	659.00	199 233 157	^	673.00
2	199 233 128	^	679.00	199 233 138	^	692.00	199 233 148	^	679.00	199 233 158	^	692.00
Size [inch]	Double Acting (DA)											
	EPDM	USD	FPM	USD								
½	199 233 163	^	513.00	199 233 173	^	520.00						
¾	199 233 164	^	521.00	199 233 174	^	530.00						
1	199 233 165	^	530.00	199 233 175	^	540.00						
1 ¼	199 233 166	^	607.00	199 233 176	^	617.00						
1 ½	199 233 167	^	623.00	199 233 177	^	638.00						
2	199 233 168	^	643.00	199 233 178	^	653.00						
	Without Manual Override											
	Flanged											
Size [inch]	Fail Safe to Close (FC)					Fail Safe to Open (FO)						
	EPDM	USD	FPM	USD		EPDM	USD	FPM	USD			
½	199 233 723	^	425.00	199 233 733	^	431.00	199 233 743	^	425.00	199 233 753	^	431.00
¾	199 233 724	^	432.00	199 233 734	^	441.00	199 233 744	^	432.00	199 233 754	^	441.00
1	199 233 725	^	441.00	199 233 735	^	453.00	199 233 745	^	441.00	199 233 755	^	453.00
1 ¼	199 233 726	^	530.00	199 233 736	^	538.00	199 233 746	^	530.00	199 233 756	^	538.00
1 ½	199 233 727	^	548.00	199 233 737	^	559.00	199 233 747	^	548.00	199 233 757	^	559.00
2	199 233 728	^	564.00	199 233 738	^	579.00	199 233 748	^	564.00	199 233 758	^	579.00
2 ½	199 233 729	^	967.00	199 233 739	^	1,018.00	199 233 749	^	967.00	199 233 759	^	1,018.00
3	199 233 730	^	1,123.00	199 233 740	^	1,181.00	199 233 750	^	1,123.00	199 233 760	^	1,181.00
4	199 233 731	^	1,204.00	199 233 741	^	1,285.00	199 233 751	^	1,204.00	199 233 761	^	1,285.00
Size [inch]	Double Acting (DA)											
	EPDM	USD	FPM	USD								
½	199 233 763	^	400.00	199 233 773	^	406.00						
¾	199 233 764	^	406.00	199 233 774	^	413.00						
1	199 233 765	^	413.00	199 233 775	^	426.00						
1 ¼	199 233 766	^	490.00	199 233 776	^	502.00						
1 ½	199 233 767	^	508.00	199 233 777	^	521.00						
2	199 233 768	^	529.00	199 233 778	^	538.00						
2 ½	199 233 769	^	834.00	199 233 779	^	885.00						
3	199 233 770	^	920.00	199 233 780	^	983.00						
4	199 233 771	^	1,005.00	199 233 781	^	1,077.00						



Type 233 Pneumatically Actuated Ball Valve

CPVC

C

	With Manual Override							
	Socket/Threaded NPT							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 233 302	501.00	199 233 312	505.00	199 233 322	501.00	199 233 332	505.00
½	199 233 303	502.00	199 233 313	508.00	199 233 323	502.00	199 233 333	508.00
¾	199 233 304	512.00	199 233 314	521.00	199 233 324	512.00	199 233 334	521.00
1	199 233 305	529.00	199 233 315	540.00	199 233 325	529.00	199 233 335	540.00
1 ¼	199 233 306	598.00	199 233 316	617.00	199 233 326	598.00	199 233 336	617.00
1 ½	199 233 307	621.00	199 233 317	643.00	199 233 327	621.00	199 233 337	643.00
2	199 233 308	650.00	199 233 318	690.00	199 233 328	650.00	199 233 338	690.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 233 342	475.00	199 233 352	480.00				
½	199 233 343	476.00	199 233 353	481.00				
¾	199 233 344	488.00	199 233 354	497.00				
1	199 233 345	501.00	199 233 355	516.00				
1 ¼	199 233 346	562.00	199 233 356	581.00				
1 ½	199 233 347	582.00	199 233 357	607.00				
2	199 233 348	614.00	199 233 358	651.00				
	Without Manual Override							
	Socket/Threaded NPT (⅜" - 2")							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 233 362	389.00	199 233 372	392.00	199 233 382	389.00	199 233 392	392.00
½	199 233 363	390.00	199 233 373	394.00	199 233 383	390.00	199 233 393	394.00
¾	199 233 364	400.00	199 233 374	408.00	199 233 384	400.00	199 233 394	408.00
1	199 233 365	412.00	199 233 375	428.00	199 233 385	412.00	199 233 395	428.00
1 ¼	199 233 366	488.00	199 233 376	503.00	199 233 386	488.00	199 233 396	503.00
1 ½	199 233 367	505.00	199 233 377	530.00	199 233 387	505.00	199 233 397	530.00
2	199 233 368	536.00	199 233 378	579.00	199 233 388	536.00	199 233 398	579.00
2 ½	199 233 369	1,049.00	199 233 379	990.00	199 233 389	938.00	199 233 399	945.00
3	199 233 370	1,240.00	199 233 380	1,181.00	199 233 390	1,107.00	199 233 400	1,123.00
4	199 233 371	1,350.00	199 233 381	1,301.00	199 233 391	1,210.00	199 233 401	1,228.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 233 402	363.00	199 233 412	367.00				
½	199 233 403	364.00	199 233 413	369.00				
¾	199 233 404	374.00	199 233 414	382.00				
1	199 233 405	389.00	199 233 415	404.00				
1 ¼	199 233 406	447.00	199 233 416	468.00				
1 ½	199 233 407	470.00	199 233 417	490.00				
2	199 233 408	500.00	199 233 418	538.00				
2 ½	199 233 409	813.00	199 233 419	872.00				
3	199 233 410	930.00	199 233 420	1,005.00				
4	199 233 411	1,034.00	199 233 421	1,107.00				

Type 233 Pneumatically Actuated Ball Valve

CPVC

C

Size [inch]	With Manual Override									
	Flanged									
	Fail Safe to Close (FC)					Fail Safe to Open (FO)				
	EPDM	USD	FPM	USD		EPDM	USD	FPM	USD	
½	199 233 443	^ 581.00	199 233 453	^ 587.00		199 233 463	^ 581.00	199 233 473	^ 587.00	
¾	199 233 444	^ 592.00	199 233 454	^ 600.00		199 233 464	^ 592.00	199 233 474	^ 600.00	
1	199 233 445	^ 593.00	199 233 455	^ 609.00		199 233 465	^ 593.00	199 233 475	^ 609.00	
1 ¼	199 233 446	^ 735.00	199 233 456	^ 755.00		199 233 466	^ 735.00	199 233 476	^ 755.00	
1 ½	199 233 447	^ 756.00	199 233 457	^ 771.00		199 233 467	^ 756.00	199 233 477	^ 771.00	
2	199 233 448	^ 774.00	199 233 458	^ 792.00		199 233 468	^ 774.00	199 233 478	^ 792.00	
Size [inch]	Double Acting (DA)									
	EPDM	USD	FPM	USD						
½	199 233 483	^ 557.00	199 233 493	^ 561.00						
¾	199 233 484	^ 565.00	199 233 494	^ 578.00						
1	199 233 485	^ 567.00	199 233 495	^ 583.00						
1 ¼	199 233 486	^ 700.00	199 233 496	^ 715.00						
1 ½	199 233 487	^ 717.00	199 233 497	^ 734.00						
2	199 233 488	^ 735.00	199 233 498	^ 755.00						
Size [inch]	Without Manual Override									
	Flanged									
	Fail Safe to Close (FC)					Fail Safe to Open (FO)				
	EPDM	USD	FPM	USD		EPDM	USD	FPM	USD	
½	199 233 803	^ 468.00	199 233 813	^ 473.00		199 233 823	^ 468.00	199 233 833	^ 473.00	
¾	199 233 804	^ 477.00	199 233 814	^ 489.00		199 233 824	^ 477.00	199 233 834	^ 489.00	
1	199 233 805	^ 480.00	199 233 815	^ 496.00		199 233 825	^ 480.00	199 233 835	^ 496.00	
1 ¼	199 233 806	^ 623.00	199 233 816	^ 642.00		199 233 826	^ 623.00	199 233 836	^ 642.00	
1 ½	199 233 807	^ 643.00	199 233 817	^ 658.00		199 233 827	^ 643.00	199 233 837	^ 658.00	
2	199 233 808	^ 659.00	199 233 818	^ 678.00		199 233 828	^ 659.00	199 233 838	^ 678.00	
2 ½	199 233 809	^ 1,137.00	199 233 819	^ 1,137.00		199 233 829	^ 1,137.00	199 233 839	^ 1,181.00	
3	199 233 810	^ 1,330.00	199 233 820	^ 1,345.00		199 233 830	^ 1,330.00	199 233 840	^ 1,402.00	
4	199 233 811	^ 1,445.00	199 233 821	^ 1,477.00		199 233 831	^ 1,445.00	199 233 841	^ 1,521.00	
Size [inch]	Double Acting (DA)									
	EPDM	USD	FPM	USD						
½	199 233 843	^ 443.00	199 233 853	^ 446.00						
¾	199 233 844	^ 453.00	199 233 854	^ 462.00						
1	199 233 845	^ 454.00	199 233 855	^ 471.00						
1 ¼	199 233 846	^ 587.00	199 233 856	^ 602.00						
1 ½	199 233 847	^ 607.00	199 233 857	^ 622.00						
2	199 233 848	^ 623.00	199 233 858	^ 642.00						
2 ½	199 233 849	^ 1,005.00	199 233 859	^ 1,049.00						
3	199 233 850	^ 1,123.00	199 233 860	^ 1,181.00						
4	199 233 851	^ 1,246.00	199 233 861	^ 1,330.00						



Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C

d [mm]	With Manual Override							
	Socket Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 231 002	423.00	199 231 012	453.00	199 231 042	457.00	199 231 052	471.00
20	199 231 003	443.00	199 231 013	454.00	199 231 043	458.00	199 231 053	472.00
25	199 231 004	455.00	199 231 014	471.00	199 231 044	473.00	199 231 054	488.00
32	199 231 005	475.00	199 231 015	490.00	199 231 045	494.00	199 231 055	507.00
40	199 231 006	523.00	199 231 016	536.00	199 231 046	562.00	199 231 056	588.00
50	199 231 007	580.00	199 231 017	597.00	199 231 047	597.00	199 231 057	619.00
63	199 231 008	616.00	199 231 018	666.00	199 231 048	638.00	199 231 058	684.00
d [mm]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
16	199 231 082	443.00	199 231 092	454.00				
20	199 231 083	444.00	199 231 093	455.00				
25	199 231 084	457.00	199 231 094	472.00				
32	199 231 085	476.00	199 231 095	492.00				
40	199 231 086	542.00	199 231 096	565.00				
50	199 231 087	580.00	199 231 097	597.00				
63	199 231 088	616.00	199 231 098	666.00				
d [mm]	Without Manual Override							
	Socket Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 231 122	365.00	199 231 132	374.00	199 231 162	382.00	199 231 172	392.00
20	199 231 123	366.00	199 231 133	375.00	199 231 163	383.00	199 231 173	394.00
25	199 231 124	375.00	199 231 134	390.00	199 231 164	394.00	199 231 174	406.00
32	199 231 125	396.00	199 231 135	409.00	199 231 165	411.00	199 231 175	426.00
40	199 231 126	462.00	199 231 136	488.00	199 231 166	481.00	199 231 176	507.00
50	199 231 127	499.00	199 231 137	517.00	199 231 167	517.00	199 231 177	537.00
63	199 231 128	535.00	199 231 138	584.00	199 231 168	557.00	199 231 178	607.00
75	199 231 129	1,087.00	199 231 139	1,181.00	199 231 169	1,005.00	199 231 179	1,181.00
90	199 231 130	1,285.00	199 231 140	1,402.00	199 231 170	1,181.00	199 231 180	1,402.00
110	199 231 131	1,402.00	199 231 141	1,550.00	199 231 171	1,301.00	199 231 181	1,550.00
d [mm]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
16	199 231 202	367.00	199 231 212	377.00				
20	199 231 203	369.00	199 231 213	378.00				
25	199 231 204	378.00	199 231 214	391.00				
32	199 231 205	397.00	199 231 215	410.00				
40	199 231 206	462.00	199 231 216	488.00				
50	199 231 207	499.00	199 231 217	517.00				
63	199 231 208	535.00	199 231 218	584.00				
75	199 231 209	952.00	199 231 219	1,049.00				
90	199 231 210	1,077.00	199 231 220	1,210.00				
110	199 231 211	1,210.00	199 231 221	1,358.00				

Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C

d [mm]	With Manual Override							
	IR/Butt Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	199 231 623	487.00	199 231 633	500.00	199 231 643	505.00	199 231 653	519.00
25	199 231 624	501.00	199 231 634	518.00	199 231 644	520.00	199 231 654	537.00
32	199 231 625	522.00	199 231 635	540.00	199 231 645	544.00	199 231 655	557.00
40	199 231 626	576.00	199 231 636	589.00	199 231 646	619.00	199 231 656	647.00
50	199 231 627	638.00	199 231 637	657.00	199 231 647	657.00	199 231 657	681.00
63	199 231 628	678.00	199 231 638	733.00	199 231 648	701.00	199 231 658	752.00
d [mm]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
20	199 231 663	488.00	199 231 673	501.00				
25	199 231 664	503.00	199 231 674	519.00				
32	199 231 665	523.00	199 231 675	542.00				
40	199 231 666	596.00	199 231 676	622.00				
50	199 231 667	638.00	199 231 677	657.00				
63	199 231 668	678.00	199 231 678	733.00				
d [mm]	Without Manual Override							
	IR/Butt Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	199 231 833	403.00	199 231 843	412.00	199 231 853	421.00	199 231 863	434.00
25	199 231 834	412.00	199 231 844	430.00	199 231 854	434.00	199 231 864	446.00
32	199 231 835	435.00	199 231 845	450.00	199 231 855	452.00	199 231 865	469.00
40	199 231 836	509.00	199 231 846	537.00	199 231 856	529.00	199 231 866	557.00
50	199 231 837	548.00	199 231 847	569.00	199 231 857	569.00	199 231 867	590.00
63	199 231 838	588.00	199 231 848	643.00	199 231 858	613.00	199 231 868	667.00
75	199 231 839	1,196.00	199 231 849	1,300.00	199 231 859	1,106.00	199 231 869	1,300.00
90	199 231 840	1,414.00	199 231 850	1,542.00	199 231 860	1,300.00	199 231 870	1,542.00
110	199 231 841	1,542.00	199 231 851	1,706.00	199 231 861	1,431.00	199 231 871	1,706.00
d [mm]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
20	199 231 873	406.00	199 231 883	416.00				
25	199 231 874	416.00	199 231 884	431.00				
32	199 231 875	437.00	199 231 885	451.00				
40	199 231 876	509.00	199 231 886	537.00				
50	199 231 877	548.00	199 231 887	569.00				
63	199 231 878	588.00	199 231 888	643.00				
75	199 231 879	1,046.00	199 231 889	1,154.00				
90	199 231 880	1,186.00	199 231 890	1,332.00				
110	199 231 881	1,332.00	199 231 891	1,494.00				

Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C

	With Manual Override							
	Threaded NPT							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 231 502	457.00	199 231 512	470.00	199 231 522	475.00	199 231 532	488.00
½	199 231 503	458.00	199 231 513	474.00	199 231 523	476.00	199 231 533	494.00
¾	199 231 504	470.00	199 231 514	485.00	199 231 524	488.00	199 231 534	502.00
1	199 231 505	490.00	199 231 515	513.00	199 231 525	507.00	199 231 535	531.00
1 ¼	199 231 506	554.00	199 231 516	571.00	199 231 526	581.00	199 231 536	608.00
1 ½	199 231 507	597.00	199 231 517	625.00	199 231 527	619.00	199 231 537	647.00
2	199 231 508	644.00	199 231 518	700.00	199 231 528	664.00	199 231 538	718.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 231 542	459.00	199 231 552	473.00				
½	199 231 543	462.00	199 231 553	476.00				
¾	199 231 544	472.00	199 231 554	488.00				
1	199 231 545	492.00	199 231 555	514.00				
1 ¼	199 231 546	560.00	199 231 556	587.00				
1 ½	199 231 547	597.00	199 231 557	625.00				
2	199 231 548	644.00	199 231 558	700.00				
	Without Manual Override							
	Threaded NPT							
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 231 562	374.00	199 231 572	385.00	199 231 582	392.00	199 231 592	404.00
½	199 231 563	375.00	199 231 573	394.00	199 231 583	394.00	199 231 593	410.00
¾	199 231 564	389.00	199 231 574	405.00	199 231 584	405.00	199 231 594	423.00
1	199 231 565	409.00	199 231 575	432.00	199 231 585	426.00	199 231 595	450.00
1 ¼	199 231 566	477.00	199 231 576	505.00	199 231 586	500.00	199 231 596	527.00
1 ½	199 231 567	517.00	199 231 577	545.00	199 231 587	537.00	199 231 597	564.00
2	199 231 568	562.00	199 231 578	619.00	199 231 588	583.00	199 231 598	640.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 231 602	377.00	199 231 612	389.00				
½	199 231 603	378.00	199 231 613	396.00				
¾	199 231 604	390.00	199 231 614	406.00				
1	199 231 605	410.00	199 231 615	434.00				
1 ¼	199 231 606	477.00	199 231 616	505.00				
1 ½	199 231 607	517.00	199 231 617	545.00				
2	199 231 608	562.00	199 231 618	619.00				

Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C

	With Manual Override							
	Flanged							
Size	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
[inch]	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	199 231 303	505.00	199 231 313	514.00	199 231 323	523.00	199 231 333	533.00
¾	199 231 304	574.00	199 231 314	548.00	199 231 324	543.00	199 231 334	563.00
1	199 231 305	580.00	199 231 315	589.00	199 231 325	591.00	199 231 335	608.00
1 ¼	199 231 306	743.00	199 231 316	750.00	199 231 326	803.00	199 231 336	813.00
1 ½	199 231 307	794.00	199 231 317	799.00	199 231 327	814.00	199 231 337	818.00
2	199 231 308	908.00	199 231 318	953.00	199 231 328	930.00	199 231 338	972.00
Size	Double Acting (DA)							
[inch]	EPDM	USD	FPM	USD				
½	199 231 343	507.00	199 231 353	516.00				
¾	199 231 344	530.00	199 231 354	550.00				
1	199 231 345	578.00	199 231 355	591.00				
1 ¼	199 231 346	783.00	199 231 356	793.00				
1 ½	199 231 347	794.00	199 231 357	799.00				
2	199 231 348	908.00	199 231 358	953.00				
	Without Manual Override							
	Flanged							
Size	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
[inch]	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	199 231 363 ^	467.00	199 231 373 ^	480.00	199 231 383 ^	480.00	199 231 393 ^	497.00
¾	199 231 364 ^	503.00	199 231 374 ^	521.00	199 231 384 ^	520.00	199 231 394 ^	535.00
1	199 231 365 ^	542.00	199 231 375 ^	559.00	199 231 385 ^	552.00	199 231 395 ^	574.00
1 ¼	199 231 366 ^	690.00	199 231 376 ^	699.00	199 231 386 ^	690.00	199 231 396 ^	775.00
1 ½	199 231 367 ^	744.00	199 231 377 ^	775.00	199 231 387 ^	729.00	199 231 397 ^	799.00
2	199 231 368 ^	853.00	199 231 378 ^	923.00	199 231 388 ^	836.00	199 231 398 ^	953.00
2 ½	199 231 369 ^	1,159.00	199 231 379 ^	1,210.00	199 231 389 ^	1,159.00	199 231 399 ^	1,258.00
3	199 231 370 ^	1,380.00	199 231 380 ^	1,445.00	199 231 390 ^	1,380.00	199 231 400 ^	1,506.00
4	199 231 371 ^	1,529.00	199 231 381 ^	1,625.00	199 231 391 ^	1,529.00	199 231 401 ^	1,677.00
Size	Double Acting (DA)							
[inch]	EPDM	USD	FPM	USD				
½	199 231 403 ^	457.00	199 231 413 ^	480.00				
¾	199 231 404 ^	497.00	199 231 414 ^	512.00				
1	199 231 405 ^	529.00	199 231 415 ^	559.00				
1 ¼	199 231 406 ^	783.00	199 231 416 ^	793.00				
1 ½	199 231 407 ^	794.00	199 231 417 ^	799.00				
2	199 231 408 ^	908.00	199 231 418 ^	953.00				
2 ½	199 231 409 ^	1,034.00	199 231 419 ^	1,123.00				
3	199 231 410 ^	1,181.00	199 231 420 ^	1,301.00				
4	199 231 411 ^	1,330.00	199 231 421 ^	1,477.00				

Type 232 Pneumatically Actuated Ball Valve

SYGEF® Standard PVDF

C

d [mm]	With Manual Override						
	Socket Fusion						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
16	199 232 012	577.00	199 232 052	591.00	199 232 092	578.00	
20	199 232 013	587.00	199 232 053	607.00	199 232 093	588.00	
25	199 232 014	631.00	199 232 054	650.00	199 232 094	632.00	
32	199 232 015	703.00	199 232 055	719.00	199 232 095	705.00	
40	199 232 016	835.00	199 232 056	857.00	199 232 096	835.00	
50	199 232 017	1,017.00	199 232 057	1,039.00	199 232 097	1,017.00	
63	199 232 018	1,237.00	199 232 058	1,260.00	199 232 098	1,237.00	
d [mm]	Without Manual Override						
	Socket Fusion						
	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
16	199 232 132	491.00	199 232 172	509.00	199 232 212	492.00	
20	199 232 133	500.00	199 232 173	520.00	199 232 213	501.00	
25	199 232 134	547.00	199 232 174	563.00	199 232 214	548.00	
32	199 232 135	619.00	199 232 175	638.00	199 232 215	621.00	
40	199 232 136	750.00	199 232 176	773.00	199 232 216	750.00	
50	199 232 137	935.00	199 232 177	953.00	199 232 217	935.00	
63	199 232 138	1,152.00	199 232 178	1,174.00	199 232 218	1,152.00	
75	199 232 139	2,945.00	199 232 179	2,945.00	199 232 219	2,650.00	
90	199 232 140	3,534.00	199 232 180	3,534.00	199 232 220	3,181.00	
110	199 232 141	4,241.00	199 232 181	4,241.00	199 232 221	3,817.00	
d [mm]	With Manual Override						
	IR/Butt Fusion						
	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
20	199 232 713	587.00	199 232 753	607.00	199 232 793	588.00	
25	199 232 714	631.00	199 232 754	650.00	199 232 794	632.00	
32	199 232 715	703.00	199 232 755	719.00	199 232 795	705.00	
40	199 232 716	835.00	199 232 756	857.00	199 232 796	835.00	
50	199 232 717	1,017.00	199 232 757	1,039.00	199 232 797	1,017.00	
63	199 232 718	1,237.00	199 232 758	1,260.00	199 232 798	1,237.00	
d [mm]	Without Manual Override						
	IR/Butt Fusion						
	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
20	199 232 833	500.00	199 232 873	520.00	199 232 913	500.00	
25	199 232 834	547.00	199 232 874	563.00	199 232 914	547.00	
32	199 232 835	619.00	199 232 875	638.00	199 232 915	619.00	
40	199 232 836	750.00	199 232 876	773.00	199 232 916	750.00	
50	199 232 837	935.00	199 232 877	953.00	199 232 917	935.00	
63	199 232 838	1,152.00	199 232 878	1,174.00	199 232 918	1,152.00	
75	199 232 839	2,945.00	199 232 879	2,945.00	199 232 919	2,650.00	
90	199 232 840	3,534.00	199 232 880	3,534.00	199 232 920	3,181.00	
110	199 232 841	4,241.00	199 232 881	4,241.00	199 232 921	3,817.00	

Type 232 Pneumatically Actuated Ball Valve

SYGEF® Standard PVDF

C

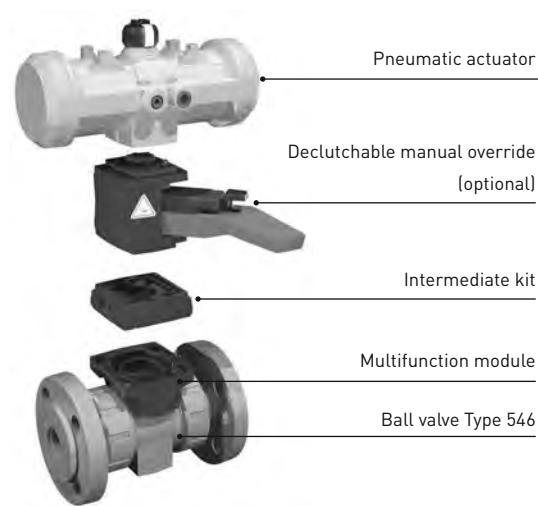
Size [inch]	With Manual Override						
	Threaded NPT						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
3/8	199 232 512	611.00	199 232 532	627.00	199 232 552	612.00	
1/2	199 232 513	626.00	199 232 533	645.00	199 232 553	627.00	
3/4	199 232 514	662.00	199 232 534	681.00	199 232 554	666.00	
1	199 232 515	746.00	199 232 535	764.00	199 232 555	747.00	
1 1/4	199 232 516	994.00	199 232 536	1,016.00	199 232 556	994.00	
1 1/2	199 232 517	1,022.00	199 232 537	1,044.00	199 232 557	1,022.00	
2	199 232 518	1,251.00	199 232 538	1,273.00	199 232 558	1,251.00	
Size [inch]	Without Manual Override						
	Threaded NPT						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
3/8	199 232 572	525.00	199 232 592	543.00	199 232 612	526.00	
1/2	199 232 573	542.00	199 232 593	560.00	199 232 613	543.00	
3/4	199 232 574	582.00	199 232 594	594.00	199 232 614	584.00	
1	199 232 575	659.00	199 232 595	679.00	199 232 615	660.00	
1 1/4	199 232 576	909.00	199 232 596	931.00	199 232 616	909.00	
1 1/2	199 232 577	940.00	199 232 597	962.00	199 232 617	940.00	
2	199 232 578	1,168.00	199 232 598	1,189.00	199 232 618	1,168.00	
Size [inch]	With Manual Override						
	Flanged						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
1/2	199 232 313 ^	743.00	199 232 333 ^	761.00	199 232 353 ^	745.00	
3/4	199 232 314 ^	793.00	199 232 334 ^	809.00	199 232 354 ^	794.00	
1	199 232 315 ^	826.00	199 232 335 ^	845.00	199 232 355 ^	828.00	
1 1/4	199 232 316 ^	1,016.00	199 232 336 ^	1,036.00	199 232 356 ^	1,016.00	
1 1/2	199 232 317 ^	1,090.00	199 232 337 ^	1,112.00	199 232 357 ^	1,090.00	
2	199 232 318 ^	1,308.00	199 232 338 ^	1,332.00	199 232 358 ^	1,308.00	
Size [inch]	Without Manual Override						
	Flanged						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
FPM	USD	FPM	USD	FPM	USD		
1/2	199 232 373 ^	692.00	199 232 393 ^	713.00	199 232 413 ^	695.00	
3/4	199 232 374 ^	743.00	199 232 394 ^	761.00	199 232 414 ^	745.00	
1	199 232 375 ^	954.00	199 232 395 ^	779.00	199 232 415 ^	779.00	
1 1/4	199 232 376 ^	968.00	199 232 396 ^	988.00	199 232 416 ^	968.00	
1 1/2	199 232 377 ^	1,041.00	199 232 397 ^	1,063.00	199 232 417 ^	1,041.00	
2	199 232 378 ^	1,262.00	199 232 398 ^	1,266.00	199 232 418 ^	1,262.00	

Actuated Ball Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an “S” in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1” Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1” Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1” Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1” Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 231–233

- Limit Switch Reading off Actuator
- Limit Switch Reading off Valve (within MFM)
- Positioner
- Actuator Control Box
- Pilot Valve
- Stroke Limiter

Components by Valve Type

Size d [inch - mm]	Type 231-233			
	Action	Intermediate Kit	Manual Override	Actuator
3/8 - 16	FC - FO - DA	167482680	198150556	PA11
1/2 - 20	FC - FO - DA	167482680	198150556	PA11
3/4 - 25	FC - FO - DA	167482681	198150557	PA11
1 - 32	FC - FO - DA	167482681	198150557	PA11
1 1/4 - 40	FC - FO - DA	167482682	198150558	PA21
1 1/2 - 50	FC - FO - DA	167482682	198150558	PA21
2 - 63	FC - FO - DA	167482683	198150559	PA21
2 1/2 - 75	FC - FO	167482684	NR	PA30
2 1/2 - 75	DA	167482684	NR	PA35
3 - 90	FC - FO	167482684	NR	PA40
3 - 90	DA	167482684	NR	PA45
4 - 110	FC - FO	167482685	NR	PA40
4 - 110	DA	167482685	NR	PA45

NR = Not Required

Pneumatic Actuators

Part number	Description
198150127	PA11 FC
198150128	PA11 FO
198150129	PA11 DA
198150130	PA21 FC
198150131	PA21 FO
198150132	PA21 DA
198811025	PA30 FO
198800757	PA30 FO/FC
198800758	PA35 DA
198811027	PA40 FO
198800728	PA40 FO/FC
198800040	PA45 DA

Accessories Pneumatically Actuated Ball Valves

Multifunction Modules

C

d - d [mm]	Size [inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	58.00	167 482 635	58.00
25 - 32	3/4 - 1	167 482 627	61.00	167 482 636	61.00
40 - 50	1 1/4 - 1 1/2	167 482 628	74.00	167 482 637	74.00
63	2	167 482 629	79.00	167 482 638	79.00
75 - 90	2 1/2 - 3	167 482 630	107.00	167 482 639	107.00
110	4	167 482 631	123.00	167 482 640	123.00

d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	200.00	167 482 653	200.00
25 - 32	3/4 - 1	167 482 663	206.00	167 482 654	206.00
40 - 50	1 1/4 - 1 1/2	167 482 664	219.00	167 482 655	219.00
63	2	167 482 665	222.00	167 482 656	222.00
75 - 90	2 1/2 - 3	167 482 666	255.00	167 482 657	255.00
110	4	167 482 667	271.00	167 482 658	271.00



Limit Switch Box with Namur Mounting Flange

C

Voltage	Limit Switch Box with 2 Auxiliary Switches		
	Description	Part No.	USD
250 V, 10 A	Ag Ni	199 190 282	313.00
10 - 30 V, 0.1 A	Inductive NPN	199 190 283	505.00
10 - 30 V, 0.1 A	Inductive PNP	199 190 284	505.00
5 - 15 V	Inductive Namur EExi	199 190 285	512.00
250 V, 5 A	EExd	199 190 286	1,001.00
30 V, 1 - 100 mA	Au	199 190 287	284.00



Pilot Solenoid Valve

C

Voltage	Solenoid PV94		Solenoid PV95 3/2-way	
	FC/FO	USD	FC/FO	USD
24 V DC	199 190 546	106.00	199 190 554	153.00
110 V, 50-60 Hz	199 190 547	106.00	199 190 555	153.00

Voltage	Type 5470 4/2-way	
	DA	USD
230 V, AC/DC	199 190 302	218.00
115 V, AC/DC	199 190 303	218.00
24 V, AC/DC	199 190 304	218.00

Voltage	Type MNL532 3/2-5/2-way	Part No.	USD
110 V, AC	199 190 359	178.00	
230 V, AC	199 190 360	178.00	
48 V, AC	199 190 361	178.00	
24 V, AC	199 190 358	178.00	
24 V, DC	199 190 357	178.00	

Speed control pilot solenoid

NAMUR Connector Plate

C

DIN Plug

C

d [mm]	Size [inch]	Part No.	USD
20 - 63	1/2 - 2	199 190 378	62.00
75 - 110	2 1/2 - 4	199 190 275	55.00

Discription	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	16.00
PV94/95 Female Plug Only	150 101 066	12.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

Accessories Pneumatically Actuated Ball Valves

Digital Electro-Pneumatic Positioner **C**

Size	Without Feedback Signal	
	DSR 500-3	
	Part No	USD
All	199 190 108	3158.00

DSR 500-3 Positioner available with feedback upon request

Mount **C**

Namur Mounting Flange	
Part No.	USD
199 190 281	47.00

Required for DSR 500-3

Spare Parts Pneumatically Actuated Ball Valves

Type PA 11 / PA 21 Pneumatic Actuator



Type	Without Stroke Limiter						
	Size [inch]	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
		Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 127	244.00	198 150 128	244.00	198 150 129	222.00
PA 21	1 1/4 - 2	198 150 130	290.00	198 150 131	290.00	198 150 132	255.00

Type	With Stroke Limiter						
	Size [inch]	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
		Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 144	347.00	198 150 145	347.00	198 150 146	305.00
PA 21	1 1/4 - 2	198 150 147	394.00	198 150 148	394.00	198 150 149	341.00

Type PA 30 / PA 45 Pneumatic Actuator **C**

Type	Fail Safe to Close/Open (FC/FO)		Type	Double Acting (DA)	
	Part No.	USD		Part No.	USD
PA 30 FC/FO	198 800 757	341.00	PA 35 DA	198 800 758	244.00
PA 35 FC/FO	198 800 037	393.00	PA 40 DA	198 800 759	262.00
PA 40 FC/FO	198 800 728	448.00	PA 45 DA	198 800 040	303.00

Multifunction Modules **C** Intermediate Kit **C**

d - d [mm]	Size [inch]	Without Limit Switches		d - d [mm]	Size [inch]	Part No.	USD
		Part No.	USD				
16 - 20	3/8 - 1/2	167 482 680	4.00	16 - 20	3/8 - 1/2	198 150 556	25.00
25 - 32	3/4 - 1	167 482 681	4.00	25 - 30	3/4 - 1	198 150 557	25.00
40 - 50	1 1/4 - 1 1/2	167 482 682	6.00	40 - 50	1 1/4 - 1 1/2	198 150 558	25.00
63	2	167 482 683	8.00	63	2	198 150 559	25.00
75 - 90	2 1/2 - 3	167 482 684	30.00				
110	4	167 482 685	41.00				

Declutchable Manual Override **C**

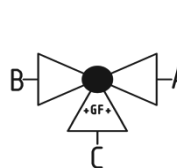
d - d [mm]	Size [inch]	Pneumatic Actuator PA 11 and PA 21	
		Part No	USD
16 - 32	3/8 - 1	198 000 500	127.00
40 - 63	1 1/4 - 2	198 000 501	127.00

BSP to NPT Brass Adapter **C**

Size	Part No.	USD
1/8" male BSP to 1/8" female NPT	150 101 038	5.00
1/4" male BSP to 1/4" female NPT	150 101 037	8.00

Comes standard with pneumatically actuated ball valves

Type 288 Pneumatically Actuated 3-Way Vertical Ball Valve

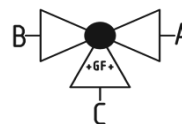


C

PVC

Size [inch]	Socket - With Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 288 492	632.00	199 288 502	643.00	199 288 512	632.00	199 288 522	643.00
½	199 288 493	634.00	199 288 503	644.00	199 288 513	634.00	199 288 523	644.00
¾	199 288 494	652.00	199 288 504	660.00	199 288 514	652.00	199 288 524	660.00
1	199 288 495	672.00	199 288 505	687.00	199 288 515	672.00	199 288 525	687.00
1 ¼	199 288 496	737.00	199 288 506	750.00	199 288 516	737.00	199 288 526	750.00
1 ½	199 288 497	806.00	199 288 507	827.00	199 288 517	806.00	199 288 527	827.00
2	199 288 498	845.00	199 288 508	882.00	199 288 518	845.00	199 288 528	882.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 288 532	632.00	199 288 542	643.00				
½	199 288 533	634.00	199 288 543	644.00				
¾	199 288 534	652.00	199 288 544	660.00				
1	199 288 535	672.00	199 288 545	687.00				
1 ¼	199 288 536	737.00	199 288 546	750.00				
1 ½	199 288 537	806.00	199 288 547	827.00				
2	199 288 538	845.00	199 288 548	882.00				
Size [inch]	Socket - Without Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 288 552	505.00	199 288 562	516.00	199 288 572	505.00	199 288 582	516.00
½	199 288 553	507.00	199 288 563	517.00	199 288 573	507.00	199 288 583	517.00
¾	199 288 554	525.00	199 288 564	533.00	199 288 574	525.00	199 288 584	533.00
1	199 288 555	545.00	199 288 565	560.00	199 288 575	545.00	199 288 585	560.00
1 ¼	199 288 556	610.00	199 288 566	623.00	199 288 576	610.00	199 288 586	623.00
1 ½	199 288 557	679.00	199 288 567	700.00	199 288 577	679.00	199 288 587	700.00
2	199 288 558	718.00	199 288 568	755.00	199 288 578	718.00	199 288 588	755.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 288 592	505.00	199 288 602	516.00				
½	199 288 593	507.00	199 288 603	517.00				
¾	199 288 594	525.00	199 288 604	533.00				
1	199 288 595	545.00	199 288 605	560.00				
1 ¼	199 288 596	610.00	199 288 606	623.00				
1 ½	199 288 597	679.00	199 288 607	700.00				
2	199 288 598	718.00	199 288 608	755.00				

Type 288 Pneumatically Actuated 3-Way Vertical Ball Valve

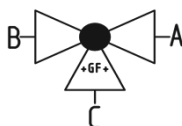
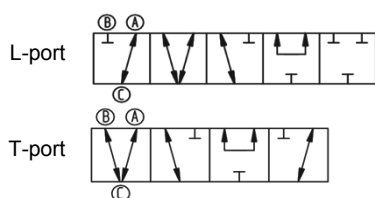


C

PVC

Size [inch]	Threaded NPT - With Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 288 612	632.00	199 288 622	643.00	199 288 632	632.00	199 288 642	643.00
½	199 288 613	634.00	199 288 623	644.00	199 288 633	634.00	199 288 643	644.00
¾	199 288 614	652.00	199 288 624	660.00	199 288 634	652.00	199 288 644	660.00
1	199 288 615	672.00	199 288 625	687.00	199 288 635	672.00	199 288 645	687.00
1 ¼	199 288 616	737.00	199 288 626	750.00	199 288 636	737.00	199 288 646	750.00
1 ½	199 288 617	806.00	199 288 627	827.00	199 288 637	806.00	199 288 647	827.00
2	199 288 618	845.00	199 288 628	882.00	199 288 638	845.00	199 288 648	882.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 288 652	632.00	199 288 662	643.00				
½	199 288 653	634.00	199 288 663	644.00				
¾	199 288 654	652.00	199 288 664	660.00				
1	199 288 655	672.00	199 288 665	687.00				
1 ¼	199 288 656	737.00	199 288 666	750.00				
1 ½	199 288 657	806.00	199 288 667	827.00				
2	199 288 658	845.00	199 288 668	882.00				
Size [inch]	Threaded NPT - Without Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
⅜	199 288 672	505.00	199 288 682	516.00	199 288 692	505.00	199 288 702	516.00
½	199 288 673	507.00	199 288 683	517.00	199 288 693	507.00	199 288 703	517.00
¾	199 288 674	525.00	199 288 684	533.00	199 288 694	525.00	199 288 704	533.00
1	199 288 675	545.00	199 288 685	560.00	199 288 695	545.00	199 288 705	560.00
1 ¼	199 288 676	610.00	199 288 686	623.00	199 288 696	610.00	199 288 706	623.00
1 ½	199 288 677	679.00	199 288 687	700.00	199 288 697	679.00	199 288 707	700.00
2	199 288 678	718.00	199 288 688	755.00	199 288 698	718.00	199 288 708	755.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
⅜	199 288 712	505.00	199 288 722	516.00				
½	199 288 713	507.00	199 288 723	517.00				
¾	199 288 714	525.00	199 288 724	533.00				
1	199 288 715	545.00	199 288 725	560.00				
1 ¼	199 288 716	610.00	199 288 726	623.00				
1 ½	199 288 717	679.00	199 288 727	700.00				
2	199 288 718	718.00	199 288 728	755.00				

Type 285 Pneumatically Actuated 3-Way Horizontal Ball Valve

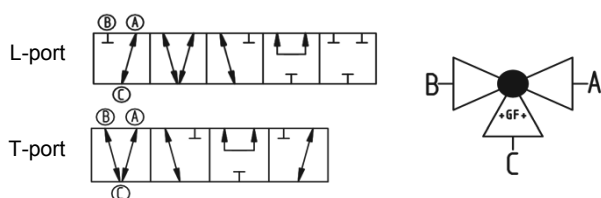


PVC

C

Size [inch]	L-port							
	Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 382	505.00	199 285 392	516.00	199 285 542	505.00	199 285 552	516.00
1/2	199 285 383	507.00	199 285 393	517.00	199 285 543	507.00	199 285 553	517.00
3/4	199 285 384	525.00	199 285 394	533.00	199 285 544	525.00	199 285 554	533.00
1	199 285 385	545.00	199 285 395	560.00	199 285 545	545.00	199 285 555	560.00
1 1/4	199 285 386	610.00	199 285 396	623.00	199 285 546	610.00	199 285 556	623.00
1 1/2	199 285 387	679.00	199 285 397	700.00	199 285 547	679.00	199 285 557	700.00
2	199 285 388	718.00	199 285 398	755.00	199 285 548	718.00	199 285 558	755.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 362	505.00	199 285 372	516.00	199 285 522	505.00	199 285 532	516.00
1/2	199 285 363	507.00	199 285 373	517.00	199 285 523	507.00	199 285 533	517.00
3/4	199 285 364	525.00	199 285 374	533.00	199 285 524	525.00	199 285 534	533.00
1	199 285 365	545.00	199 285 375	560.00	199 285 525	545.00	199 285 535	560.00
1 1/4	199 285 366	610.00	199 285 376	623.00	199 285 526	610.00	199 285 536	623.00
1 1/2	199 285 367	679.00	199 285 377	700.00	199 285 527	679.00	199 285 537	700.00
2	199 285 368	718.00	199 285 378	755.00	199 285 528	718.00	199 285 538	755.00
Size [inch]	T-port							
	Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 422	505.00	199 285 432	516.00	199 285 582	505.00	199 285 592	516.00
1/2	199 285 423	507.00	199 285 433	517.00	199 285 583	507.00	199 285 593	517.00
3/4	199 285 424	525.00	199 285 434	533.00	199 285 584	525.00	199 285 594	533.00
1	199 285 425	545.00	199 285 435	560.00	199 285 585	545.00	199 285 595	560.00
1 1/4	199 285 426	610.00	199 285 436	623.00	199 285 586	610.00	199 285 596	623.00
1 1/2	199 285 427	679.00	199 285 437	700.00	199 285 587	679.00	199 285 597	700.00
2	199 285 428	718.00	199 285 438	755.00	199 285 588	718.00	199 285 598	755.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 402	505.00	199 285 412	516.00	199 285 562	505.00	199 285 572	516.00
1/2	199 285 403	507.00	199 285 413	517.00	199 285 563	507.00	199 285 573	517.00
3/4	199 285 404	525.00	199 285 414	533.00	199 285 564	525.00	199 285 574	533.00
1	199 285 405	545.00	199 285 415	560.00	199 285 565	545.00	199 285 575	560.00
1 1/4	199 285 406	610.00	199 285 416	623.00	199 285 566	610.00	199 285 576	623.00
1 1/2	199 285 407	679.00	199 285 417	700.00	199 285 567	679.00	199 285 577	700.00
2	199 285 408	718.00	199 285 418	755.00	199 285 568	718.00	199 285 578	755.00

Type 285 Pneumatically Actuated 3-Way Horizontal Ball Valve

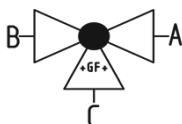


CPVC

C

Size [inch]	L-port							
	Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 462	536.00	199 285 472	552.00	199 285 942	536.00	199 285 952	552.00
1/2	199 285 463	536.00	199 285 473	552.00	199 285 943	536.00	199 285 953	552.00
3/4	199 285 464	564.00	199 285 474	578.00	199 285 944	564.00	199 285 954	578.00
1	199 285 465	627.00	199 285 475	627.00	199 285 945	627.00	199 285 955	627.00
1 1/4	199 285 466	695.00	199 285 476	714.00	199 285 946	695.00	199 285 956	714.00
1 1/2	199 285 467	774.00	199 285 477	813.00	199 285 947	774.00	199 285 957	813.00
2	199 285 468	869.00	199 285 478	936.00	199 285 948	869.00	199 285 958	936.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 442	536.00	199 285 452	552.00	199 285 922	536.00	199 285 932	552.00
1/2	199 285 443	536.00	199 285 453	552.00	199 285 923	536.00	199 285 933	552.00
3/4	199 285 444	564.00	199 285 454	578.00	199 285 924	564.00	199 285 934	578.00
1	199 285 445	627.00	199 285 455	627.00	199 285 925	627.00	199 285 935	627.00
1 1/4	199 285 446	695.00	199 285 456	714.00	199 285 926	695.00	199 285 936	714.00
1 1/2	199 285 447	774.00	199 285 457	813.00	199 285 927	774.00	199 285 937	813.00
2	199 285 448	869.00	199 285 458	936.00	199 285 928	869.00	199 285 938	936.00
Size [inch]	Horizontal / T-port							
	Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 502	536.00	199 285 512	552.00	199 285 982	536.00	199 285 992	552.00
1/2	199 285 503	536.00	199 285 513	552.00	199 285 983	536.00	199 285 993	552.00
3/4	199 285 504	564.00	199 285 514	578.00	199 285 984	564.00	199 285 994	578.00
1	199 285 505	627.00	199 285 515	627.00	199 285 985	627.00	199 285 995	627.00
1 1/4	199 285 506	695.00	199 285 516	714.00	199 285 986	695.00	199 285 996	714.00
1 1/2	199 285 507	774.00	199 285 517	813.00	199 285 987	774.00	199 285 997	813.00
2	199 285 508	869.00	199 285 518	936.00	199 285 988	869.00	199 285 998	936.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 285 482	536.00	199 285 492	552.00	199 285 962	536.00	199 285 972	552.00
1/2	199 285 483	536.00	199 285 493	552.00	199 285 963	536.00	199 285 973	552.00
3/4	199 285 484	564.00	199 285 494	578.00	199 285 964	564.00	199 285 974	578.00
1	199 285 485	627.00	199 285 495	627.00	199 285 965	627.00	199 285 975	627.00
1 1/4	199 285 486	695.00	199 285 496	714.00	199 285 966	695.00	199 285 976	714.00
1 1/2	199 285 487	774.00	199 285 497	813.00	199 285 967	774.00	199 285 977	813.00
2	199 285 488	869.00	199 285 498	936.00	199 285 968	869.00	199 285 978	936.00

Type 286 Pneumatically Actuated 3-Way Horizontal Ball Valve

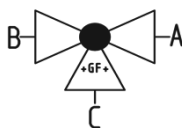
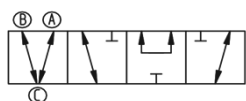


PROGEF® Standard PP

C

d [mm]	Horizontal / L-port							
	Socket Fusion							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 286 022	543.00	199 286 032	574.00	199 286 182	543.00	199 286 192	574.00
20	199 286 023	543.00	199 286 033	574.00	199 286 183	543.00	199 286 193	574.00
25	199 286 024	578.00	199 286 034	593.00	199 286 184	578.00	199 286 194	593.00
32	199 286 025	621.00	199 286 035	657.00	199 286 185	621.00	199 286 195	643.00
40	199 286 026	726.00	199 286 036	756.00	199 286 186	726.00	199 286 196	756.00
50	199 286 027	816.00	199 286 037	859.00	199 286 187	816.00	199 286 197	859.00
63	199 286 028	918.00	199 286 038	987.00	199 286 188	918.00	199 286 198	987.00
d [mm]	IR/Butt Fusion							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	199 286 083	550.00	199 286 093	580.00	199 286 243	543.00	199 286 253	574.00
25	199 286 084	578.00	199 286 094	608.00	199 286 244	578.00	199 286 254	593.00
32	199 286 085	623.00	199 286 095	670.00	199 286 245	621.00	199 286 255	651.00
40	199 286 086	726.00	199 286 096	756.00	199 286 246	726.00	199 286 256	756.00
50	199 286 087	816.00	199 286 097	859.00	199 286 247	816.00	199 286 257	859.00
63	199 286 088	918.00	199 286 098	987.00	199 286 248	918.00	199 286 258	987.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 286 322	543.00	199 286 332	574.00	199 286 362	543.00	199 286 372	574.00
1/2	199 286 323	543.00	199 286 333	574.00	199 286 363	543.00	199 286 373	574.00
3/4	199 286 324	578.00	199 286 334	593.00	199 286 364	578.00	199 286 374	593.00
1	199 286 325	621.00	199 286 335	643.00	199 286 365	621.00	199 286 375	643.00
1 1/4	199 286 326	726.00	199 286 336	779.00	199 286 366	726.00	199 286 376	756.00
1 1/2	199 286 327	816.00	199 286 337	890.00	199 286 367	816.00	199 286 377	863.00
2	199 286 328	918.00	199 286 338	1,001.00	199 286 368	918.00	199 286 378	987.00

Type 286 Pneumatically Actuated 3-Way Horizontal Ball Valve

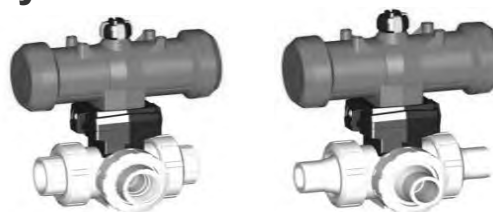
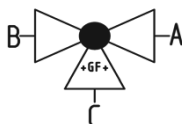
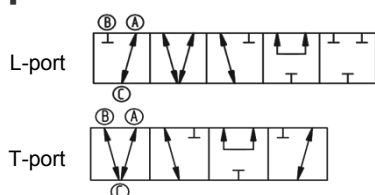


PROGEF® Standard PP

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d [mm]	Horizontal / T-port							
	Socket Fusion							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
16	199 286 062	543.00	199 286 072	574.00	199 286 222	543.00	199 286 232	574.00
20	199 286 063	543.00	199 286 073	574.00	199 286 223	543.00	199 286 233	574.00
25	199 286 064	578.00	199 286 074	593.00	199 286 224	578.00	199 286 234	593.00
32	199 286 065	621.00	199 286 075	643.00	199 286 225	621.00	199 286 235	643.00
40	199 286 066	726.00	199 286 076	756.00	199 286 226	726.00	199 286 236	756.00
50	199 286 067	816.00	199 286 077	859.00	199 286 227	816.00	199 286 237	859.00
63	199 286 068	918.00	199 286 078	987.00	199 286 228	918.00	199 286 238	987.00
d [mm]	IR/Butt Fusion							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	199 286 103	543.00	199 286 113	574.00	199 286 263	543.00	199 286 273	574.00
25	199 286 104	578.00	199 286 114	593.00	199 286 264	578.00	199 286 274	593.00
32	199 286 105	621.00	199 286 115	643.00	199 286 265	621.00	199 286 275	643.00
40	199 286 106	726.00	199 286 116	756.00	199 286 266	750.00	199 286 276	756.00
50	199 286 107	816.00	199 286 117	859.00	199 286 267	816.00	199 286 277	859.00
63	199 286 108	918.00	199 286 118	987.00	199 286 268	918.00	199 286 278	987.00
Size [inch]	Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8	199 286 342	543.00	199 286 352	574.00	199 286 382	543.00	199 286 392	574.00
1/2	199 286 343	543.00	199 286 353	574.00	199 286 383	543.00	199 286 393	574.00
3/4	199 286 344	578.00	199 286 354	593.00	199 286 384	578.00	199 286 394	593.00
1	199 286 345	621.00	199 286 355	643.00	199 286 385	621.00	199 286 395	643.00
1 1/4	199 286 346	726.00	199 286 356	779.00	199 286 386	726.00	199 286 396	756.00
1 1/2	199 286 347	816.00	199 286 357	890.00	199 286 387	816.00	199 286 397	863.00
2	199 286 348	918.00	199 286 358	1,001.00	199 286 388	918.00	199 286 398	987.00

Type 287 Pneumatically Actuated 3-Way Ball Valve



SYGEF® Standard PVDF

C

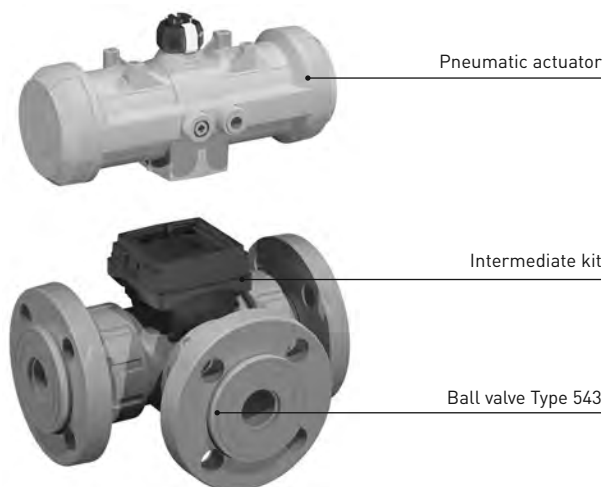
d - Size [mm]-[inch]	Horizontal / L-port					
	Socket Fusion - FC		IR/Butt Fusion - FC		Threaded NPT - FC	
	FPM	USD	FPM	USD	FPM	USD
16 - 3/8	199 287 092	748.00	-	-	199 287 242	748.00
20 - 1/2	199 287 093	748.00	199 287 053	748.00	199 287 243	748.00
25 - 3/4	199 287 094	845.00	199 287 054	845.00	199 287 244	845.00
32 - 1	199 287 095	982.00	199 287 055	982.00	199 287 245	982.00
40 - 1 1/4	199 287 096	1,198.00	199 287 056	1,198.00	199 287 246	1,198.00
50 - 1 1/2	199 287 097	1,410.00	199 287 057	1,410.00	199 287 247	1,410.00
63 - 2	199 287 098	1,795.00	199 287 058	1,795.00	199 287 248	1,795.00
d [mm]	Socket Fusion - DA		IR/Butt Fusion - DA		Threaded NPT - DA	
	FPM	USD	FPM	USD	FPM	USD
	FPM	USD	FPM	USD	FPM	USD
16 - 3/8	199 287 212	785.00	-	-	199 287 262	785.00
20 - 1/2	199 287 213	785.00	199 287 173	785.00	199 287 263	785.00
25 - 3/4	199 287 214	886.00	199 287 174	886.00	199 287 264	886.00
32 - 1	199 287 215	1,030.00	199 287 175	1,030.00	199 287 265	1,030.00
40 - 1 1/4	199 287 216	1,258.00	199 287 176	1,258.00	199 287 266	1,258.00
50 - 1 1/2	199 287 217	1,480.00	199 287 177	1,480.00	199 287 267	1,480.00
63 - 2	199 287 218	1,885.00	199 287 178	1,885.00	199 287 268	1,885.00
d - Size [mm]-[Inch]	Horizontal / T-port					
	Socket Fusion - FC		IR/Butt Fusion - FC		Threaded NPT - FC	
	FPM	USD	FPM	USD	FPM	USD
16 - 3/8	199 287 112	785.00	-	-	199 287 252	785.00
20 - 1/2	199 287 113	785.00	199 287 073	785.00	199 287 253	785.00
25 - 3/4	199 287 114	886.00	199 287 074	886.00	199 287 254	886.00
32 - 1	199 287 115	1,030.00	199 287 075	1,030.00	199 287 255	1,030.00
40 - 1 1/4	199 287 116	1,258.00	199 287 076	1,258.00	199 287 256	1,258.00
50 - 1 1/2	199 287 117	1,480.00	199 287 077	1,480.00	199 287 257	1,480.00
63 - 2	199 287 118	1,885.00	199 287 078	1,885.00	199 287 258	1,885.00
d [mm]	Socket Fusion - DA		IR/Butt Fusion - DA		Threaded NPT - DA	
	FPM	USD	FPM	USD	FPM	USD
	FPM	USD	FPM	USD	FPM	USD
16 - 3/8	199 287 232	785.00	-	-	199 287 272	785.00
20 - 1/2	199 287 233	785.00	199 287 193	785.00	199 287 273	785.00
25 - 3/4	199 287 234	886.00	199 287 194	886.00	199 287 274	886.00
32 - 1	199 287 235	1,030.00	199 287 195	1,030.00	199 287 275	1,030.00
40 - 1 1/4	199 287 236	1,258.00	199 287 196	1,258.00	199 287 276	1,258.00
50 - 1 1/2	199 287 237	1,480.00	199 287 197	1,480.00	199 287 277	1,480.00
63 - 2	199 287 238	1,885.00	199 287 198	1,885.00	199 287 278	1,885.00

Actuated Ball Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an "S" in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1" Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1" Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1" Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1" Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 285-288

- Limit Switch Reading off Actuator
- Limit Switch Reading off Valve (within MFM)
- Positioner
- Actuator Control Box
- Pilot Valve
- Stroke Limiter

Components by Valve Type

Size d [inch - mm]	Type 285-288		
	Action	Intermediate Kit	Actuator
3/8 - 16	FC - FO - DA	167484945	PA11
1/2 - 20	FC - FO - DA	167484945	PA11
3/4 - 25	FC - FO - DA	167484946	PA11
1 - 32	FC - FO - DA	167484946	PA11
1 1/4 - 40	FC - FO - DA	167484947	PA21
1 1/2 - 50	FC - FO - DA	167484947	PA21
2 - 63	FC - FO - DA	167484948	PA21

Pneumatic Actuators

Part number	Description
198150127	PA11 FC
198150128	PA11 FO
198150129	PA11 DA
198150130	PA21 FC
198150131	PA21 FO
198150132	PA21 DA

Accessories Pneumatically Actuated 3-Way Ball Valves

Multifunctional Modules

C

d - d [mm]	Size [inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	58.00	167 482 635	58.00
25 - 32	3/4 - 1	167 482 627	61.00	167 482 636	61.00
40 - 50	1 1/4 - 1 1/2	167 482 628	74.00	167 482 637	74.00
63	2	167 482 629	79.00	167 482 638	79.00
d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	200.00	167 482 653	200.00
25 - 32	3/4 - 1	167 482 663	206.00	167 482 654	206.00
40 - 50	1 1/4 - 1 1/2	167 482 664	219.00	167 482 655	219.00
63	2	167 482 665	222.00	167 482 656	222.00



Limit Switches with Namur Mounting Flange

C

Voltage	Limit Switch Box with 2 Auxiliary Switches		
	Description	Part No.	USD
250 V, 10 A	Ag Ni	199 190 282	313.00
10 - 30 V, 0.1 A	Inductive NPN	199 190 283	505.00
10 - 30 V, 0.1 A	Inductive PNP	199 190 284	505.00
5 - 15 V	Inductive Namur EExi	199 190 285	512.00
250 V, 5 A	EExd	199 190 286	1,001.00
30 V, 1 - 100 mA	Au	199 190 287	284.00



DSR 500-3 Digital Electro-Pneumatic Positioner

C

Size	Without Feedback Signal	
	Part No	USD
All	199 190 108	3,158.00

Positioner Mounting

C

Size	Namur Mounting Flange	
	Part No.	USD
All	199 190 281	47.00

Accessories Pneumatically Actuated 3-Way Ball Valves

Pilot Solenoid Valve

C

Voltage	Solenoid PV94		Solenoid PV95 3/2-way		Voltage	Type MNL532 3/2-5/2-way	
	FC/FO	USD	FC/FO	USD		Part No.	USD
24 V DC	199 190 546	106.00	199 190 554	153.00	110 V, AC	199 190 359	178.00
110 V, 50-60 Hz	199 190 547	106.00	199 190 555	153.00	230 V, AC	199 190 360	178.00
Voltage	Type 5470 4/2-way						
	DA	USD					
230 V, AC/DC	199 190 302	218.00					
115 V, AC/DC	199 190 303	218.00					
24 V, AC/DC	199 190 304	218.00					
					Speed control pilot solenoid		

NAMUR Connector Plate

C

DIN Plug

C

d [mm]	Size [inch]	Part No.	USD	Discription	Part No.	USD
16 - 63	3/8 - 2	199 190 378	62.00	5470 Cable Plug w/ Conduit	150 101 065	16.00
Required for Type 5470 and MLN532 Pilot Solenoid Valve				PV94/95 Female Plug Only	150 101 066	12.00

Spare Parts Pneumatically Actuated 3-Way Ball Valves

Pneumatic Actuator Type PA 11 / PA 21



C

Type	Without Stroke Limiter						
	Size [inch]	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
		Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 127	244.00	198 150 128	244.00	198 150 129	222.00
PA 21	1 1/4 - 2	198 150 130	290.00	198 150 131	290.00	198 150 132	255.00
Type	With Stroke Limiter						
	Size [inch]	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
		Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 144	347.00	198 150 145	347.00	198 150 146	305.00
PA 21	1 1/4 - 2	198 150 147	394.00	198 150 148	394.00	198 150 149	341.00

Actuator Intermediate Kit

C

d [mm]	Size [inch]	Vertical		Horizontal	
		EPDM	USD	FPM	USD
16 - 20	3/8 - 1/2	167 484 945	115.00	167 484 941	115.00
25 - 32	3/4 - 1	167 484 946	128.00	167 484 942	128.00
40 - 50	1 1/4 - 1 1/2	167 484 947	138.00	167 484 943	138.00
63	2	167 484 948	153.00	167 484 944	153.00

BSP to NPT Brass Adapter

C

Size	Part No.	USD
1/8" male BSP to 1/8" female NPT	150 101 038	5.00
1/4" male BSP to 1/4" female NPT	150 101 037	8.00

Comes standard with pneumatically actuated ball valves

Type 240 Pneumatically Actuated Wafer Butterfly Valve

PVC

C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 240 002	612.00	199 240 022	693.00	199 240 042	612.00	199 240 062	693.00
75 - 2 ½	199 240 003	619.00	199 240 023	699.00	199 240 043	619.00	199 240 063	699.00
90 - 3	199 240 004	700.00	199 240 024	779.00	199 240 044	700.00	199 240 064	779.00
110 - 4	199 240 005	714.00	199 240 025	802.00	199 240 045	714.00	199 240 065	802.00
140 - 5	199 240 006	935.00	199 240 026	1,052.00	199 240 046	935.00	199 240 066	1,052.00
160 - 6	199 240 007	1,095.00	199 240 027	1,209.00	199 240 047	1,095.00	199 240 067	1,209.00
225 - 8	199 240 008	1,367.00	199 240 028	1,431.00	199 240 048	1,367.00	199 240 068	1,431.00
280 - 10	199 240 009	3,698.00	199 240 029	4,148.00	199 240 049	4,098.00	199 240 069	4,543.00
315 - 12	199 240 010	4,499.00	199 240 030	5,286.00	199 240 050	4,359.00	199 240 070	5,180.00
d - Size [mm]-[inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
63 - 2	199 240 082	510.00	199 240 102	592.00				
75 - 2 ½	199 240 083	517.00	199 240 103	596.00				
90 - 3	199 240 084	543.00	199 240 104	624.00				
110 - 4	199 240 085	563.00	199 240 105	650.00				
140 - 5	199 240 086	624.00	199 240 106	744.00				
160 - 6	199 240 087	765.00	199 240 107	879.00				
225 - 8	199 240 088	926.00	199 240 108	991.00				
280 - 10	199 240 089	2,721.00	199 240 109	3,171.00				
315 - 12	199 240 090	3,185.00	199 240 110	4,009.00				

CPVC

C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 240 162	748.00	199 240 182	794.00	199 240 202	748.00	199 240 222	794.00
75 - 2 ½	199 240 163	785.00	199 240 183	848.00	199 240 203	785.00	199 240 223	848.00
90 - 3	199 240 164	926.00	199 240 184	991.00	199 240 204	926.00	199 240 224	991.00
110 - 4	199 240 165	991.00	199 240 185	1,061.00	199 240 205	991.00	199 240 225	1,061.00
140 - 5	199 240 166	1,233.00	199 240 186	1,324.00	199 240 206	1,233.00	199 240 226	1,324.00
160 - 6	199 240 167	1,488.00	199 240 187	1,571.00	199 240 207	1,488.00	199 240 227	1,571.00
225 - 8	199 240 168	1,794.00	199 240 188	1,899.00	199 240 208	1,794.00	199 240 228	1,899.00
d - Size [mm]-[inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
63 - 2	199 240 242	648.00	199 240 262	692.00				
75 - 2 ½	199 240 243	682.00	199 240 263	746.00				
90 - 3	199 240 244	770.00	199 240 264	833.00				
110 - 4	199 240 245	838.00	199 240 265	907.00				
140 - 5	199 240 246	923.00	199 240 266	1,012.00				
160 - 6	199 240 247	1,159.00	199 240 267	1,241.00				
225 - 8	199 240 248	1,351.00	199 240 268	1,458.00				

Type 240 Pneumatically Actuated Wafer Butterfly Valve

PROGEF® Standard PP

C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
63 - 2	199 240 282	693.00	199 240 302	735.00	199 240 322	658.00	199 240 342	735.00
75 - 2 ½	199 240 283	709.00	199 240 303	785.00	199 240 323	709.00	199 240 343	785.00
90 - 3	199 240 284	758.00	199 240 304	835.00	199 240 324	758.00	199 240 344	835.00
110 - 4	199 240 285	814.00	199 240 305	907.00	199 240 325	814.00	199 240 345	907.00
140 - 5	199 240 286	1,029.00	199 240 306	1,144.00	199 240 326	1,029.00	199 240 346	1,144.00
160 - 6	199 240 287	1,175.00	199 240 307	1,360.00	199 240 327	1,175.00	199 240 347	1,360.00
225 - 8	199 240 288	1,398.00	199 240 308	1,554.00	199 240 328	1,398.00	199 240 348	1,554.00
280 - 10	199 240 289	3,481.00	199 240 309	3,838.00	199 240 329	3,803.00	199 240 349	4,151.00
315 - 12	199 240 290	4,406.00	199 240 310	4,868.00	199 240 330	4,318.00	199 240 350	4,782.00
d - Size [mm]-[inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
63 - 2	199 240 362	542.00	199 240 382	659.00				
75 - 2 ½	199 240 363	609.00	199 240 383	681.00				
90 - 3	199 240 364	657.00	199 240 384	734.00				
110 - 4	199 240 365	718.00	199 240 385	815.00				
140 - 5	199 240 366	819.00	199 240 386	938.00				
160 - 6	199 240 367	987.00	199 240 387	1,173.00				
225 - 8	199 240 368	1,124.00	199 240 388	1,281.00				
280 - 10	199 240 369	2,705.00	199 240 389	3,067.00				
315 - 12	199 240 370	3,381.00	199 240 390	3,844.00				
355 - 14	199 240 371	Call	199 240 391	Call				
400 - 16	199 240 372	Call	199 240 392	Call				
450 - 18	199 240 373	Call	199 240 393	Call				
500 - 20	199 240 374	Call	199 240 394	Call				
630 - 24	199 240 375	Call	199 240 395	Call				

Type 240 Pneumatically Actuated Wafer Butterfly Valve

SYGEF® Standard PVDF

C

d - Size [mm]-[inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	FPM	USD	PTFE/FPM	USD	FPM	USD	PTFE/FPM	USD
63 - 2	199 240 462	1,087.00	199 240 522	1,627.00	199 240 482	1,087.00	199 240 542	1,627.00
75 - 2 ½	199 240 463	1,230.00	199 240 523	1,809.00	199 240 483	1,230.00	199 240 543	1,809.00
90 - 3	199 240 464	1,466.00	199 240 524	2,073.00	199 240 484	1,466.00	199 240 544	2,073.00
110 - 4	199 240 465	1,633.00	199 240 525	2,644.00	199 240 485	1,633.00	199 240 545	2,644.00
140 - 5	199 240 466	2,083.00	199 240 526	3,214.00	199 240 486	2,083.00	199 240 546	3,214.00
160 - 6	199 240 467	2,551.00	199 240 527	3,783.00	199 240 487	2,551.00	199 240 547	3,783.00
225 - 8	199 240 468	3,191.00	199 240 528	5,813.00	199 240 488	3,191.00	199 240 548	5,813.00
280 - 10	199 240 469	5,660.00	-	-	199 240 489	6,004.00	-	-
315 - 12	199 240 470	7,172.00	-	-	199 240 490	7,088.00	-	-

d - Size [mm]-[inch]	Double Acting (DA)			
	FPM	USD	PTFE/FPM	USD
63 - 2	199 240 502	984.00	199 240 562	1,349.00
75 - 2 ½	199 240 503	1,121.00	199 240 563	1,421.00
90 - 3	199 240 504	1,303.00	199 240 564	1,556.00
110 - 4	199 240 505	1,478.00	199 240 565	1,962.00
140 - 5	199 240 506	1,757.00	199 240 566	2,669.00
160 - 6	199 240 507	2,206.00	199 240 567	2,996.00
225 - 8	199 240 508	2,730.00	199 240 568	4,194.00
280 - 10	199 240 509	4,850.00	-	-
315 - 12	199 240 510	6,110.00	-	-



Type 244 Pneumatically Actuated Lug Butterfly Valve

PVC

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 244 002	1,018.00	199 244 022	1,087.00	199 244 042	1,018.00	199 244 062	1,087.00
2 ½	199 244 003	1,069.00	199 244 023	1,128.00	199 244 043	1,082.00	199 244 063	1,110.00
3	199 244 004	1,104.00	199 244 024	1,177.00	199 244 044	1,104.00	199 244 064	1,177.00
4	199 244 005	1,543.00	199 244 025	1,663.00	199 244 045	1,543.00	199 244 065	1,663.00
5	199 244 006	1,980.00	199 244 026	2,173.00	199 244 046	1,980.00	199 244 066	2,173.00
6	199 244 007	2,140.00	199 244 027	2,330.00	199 244 047	2,140.00	199 244 067	2,330.00
8	199 244 008	2,727.00	199 244 028	2,976.00	199 244 048	2,727.00	199 244 068	2,976.00
10	199 244 009	4,590.00	199 244 029	4,616.00	199 244 049	4,990.00	199 244 069	5,011.00
12	199 244 010	5,355.00	199 244 030	5,819.00	199 244 050	5,215.00	199 244 070	5,713.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
2	199 244 082	916.00	199 244 102	986.00				
2 ½	199 244 083	935.00	199 244 103	1,007.00				
3	199 244 084	947.00	199 244 104	1,022.00				
4	199 244 085	1,392.00	199 244 105	1,511.00				
5	199 244 086	1,669.00	199 244 106	1,865.00				
6	199 244 087	1,810.00	199 244 107	2,000.00				
8	199 244 088	2,286.00	199 244 108	2,536.00				
10	199 244 089	3,613.00	199 244 109	3,639.00				
12	199 244 090	4,041.00	199 244 110	4,542.00				

CPVC

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 244 162	1,224.00	199 244 182	1,329.00	199 244 202	1,124.00	199 244 222	1,227.00
2 ½	199 244 163	1,294.00	199 244 183	1,385.00	199 244 203	1,149.00	199 244 223	1,251.00
3	199 244 164	1,342.00	199 244 184	1,409.00	199 244 204	1,186.00	199 244 224	1,273.00
4	199 244 165	1,958.00	199 244 185	2,158.00	199 244 205	1,805.00	199 244 225	2,004.00
5	199 244 166	2,456.00	199 244 186	2,744.00	199 244 206	2,146.00	199 244 226	2,432.00
6	199 244 167	2,711.00	199 244 187	2,991.00	199 244 207	2,382.00	199 244 227	2,661.00
8	199 244 168	3,493.00	199 244 188	3,879.00	199 244 208	3,050.00	199 244 228	3,438.00
10	199 244 169	7,563.24	199 244 189	8,399.93	199 244 209	6,604.03	199 244 229	7,444.95
12	199 244 170	8,994.12	199 244 190	9,401.66	199 244 210	7,853.44	199 244 230	8,332.80
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
2	199 244 242	1,224.00	199 244 262	1,329.00				
2 ½	199 244 243	1,299.00	199 244 263	1,385.00				
3	199 244 244	1,342.00	199 244 264	1,409.00				
4	199 244 245	1,958.00	199 244 265	2,158.00				
5	199 244 246	2,456.00	199 244 266	2,744.00				
6	199 244 247	2,711.00	199 244 267	2,991.00				
8	199 244 248	3,493.00	199 244 268	3,879.00				
10	199 244 249	7,563.24	199 244 269	8,399.93				
12	199 244 250	8,994.12	199 244 270	9,401.66				

PTFE seals available upon request - Please call Insides Sales for pricing

Type 244 Pneumatically Actuated Lug Butterfly Valve

PROGEF® Standard PP

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
2	199 244 282	1,318.00	199 244 302	1,347.00	199 244 322	1,283.00	199 244 342	1,347.00
2 ½	199 244 283	1,498.00	199 244 303	1,653.00	199 244 323	1,498.00	199 244 343	1,632.00
3	199 244 284	1,585.00	199 244 304	1,669.00	199 244 324	1,585.00	199 244 344	1,669.00
4	199 244 285	1,898.00	199 244 305	1,962.00	199 244 325	1,898.00	199 244 345	1,962.00
5	199 244 286	2,642.00	199 244 306	3,225.00	199 244 326	2,642.00	199 244 346	3,225.00
6	199 244 287	2,788.00	199 244 307	3,441.00	199 244 327	2,788.00	199 244 347	3,441.00
8	199 244 288	3,481.00	199 244 308	3,764.00	199 244 328	3,481.00	199 244 348	3,764.00
10	199 244 289	4,848.00	199 244 309	5,723.00	199 244 329	5,170.00	199 244 349	6,036.00
12	199 244 290	6,234.00	199 244 310	7,483.00	199 244 330	6,146.00	199 244 350	7,397.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FPM	USD				
2	199 244 362	1,167.00	199 244 382	1,271.00				
2 ½	199 244 363	1,398.00	199 244 383	1,528.00				
3	199 244 364	1,484.00	199 244 384	1,568.00				
4	199 244 365	1,802.00	199 244 385	1,870.00				
5	199 244 366	2,432.00	199 244 386	3,019.00				
6	199 244 367	2,600.00	199 244 387	3,254.00				
8	199 244 368	3,207.00	199 244 388	3,491.00				
10	199 244 369	4,072.00	199 244 389	4,952.00				
12	199 244 370	5,209.00	199 244 390	6,459.00				

PTFE seals available upon request - Please call Inside Sales for pricing

SYGEF® Standard PVDF

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	FPM	USD	PTFE/FPM	USD	FPM	USD	PTFE/FPM	USD
2	199 244 462	1,496.00	199 244 522	2,196.00	199 244 482	1,496.00	199 244 542	2,196.00
2 ½	199 244 463	1,756.00	199 244 523	2,449.00	199 244 483	1,781.00	199 244 543	2,449.00
3	199 244 464	1,808.00	199 244 524	2,492.00	199 244 484	1,808.00	199 244 544	2,492.00
4	199 244 465	2,065.00	199 244 525	3,625.00	199 244 485	2,065.00	199 244 545	3,625.00
5	199 244 466	3,060.00	199 244 526	5,176.00	199 244 486	3,060.00	199 244 546	5,176.00
6	199 244 467	3,528.00	199 244 527	5,745.00	199 244 487	3,528.00	199 244 547	5,745.00
8	199 244 468	3,960.00	199 244 528	9,978.00	199 244 488	3,960.00	199 244 548	9,978.00
10	199 244 469	6,421.00	199 244 529	10,210.38	199 244 489	6,765.00	199 244 549	10,210.38
12	199 244 470	8,478.00	199 244 530	13,066.03	199 244 490	8,394.00	199 244 550	13,066.03
Size [inch]	Double Acting (DA)							
	FPM	USD	PTFE/FPM	USD				
2	199 244 502	1,393.00	199 244 562	1,918.00				
2 ½	199 244 503	1,697.00	199 244 563	2,112.00				
3	199 244 504	1,754.00	199 244 564	2,211.00				
4	199 244 505	1,910.00	199 244 565	2,943.00				
5	199 244 506	2,734.00	199 244 566	4,631.00				
6	199 244 507	3,183.00	199 244 567	4,958.00				
8	199 244 508	3,499.00	199 244 568	8,359.00				
10	199 244 509	5,611.00	199 244 569	8,553.68				
12	199 244 510	7,416.00	199 244 570	10,945.98				

Type 563 Pneumatically Actuated Wafer Aqua Butterfly Valve

PVC

C

d - Size [mm]-[inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	75 PSI	USD	150 PSI	USD	75 PSI	USD	150 PSI	USD
63 - 2	150 563 002	411.00	150 563 032	467.00	150 563 012	411.00	150 563 042	467.00
75 - 2 ½	150 563 003	419.00	150 563 033	474.00	150 563 013	419.00	150 563 043	474.00
90 - 3	150 563 004	426.00	150 563 034	579.00	150 563 014	426.00	150 563 044	527.00
110 - 4	150 563 005	530.00	150 563 035	583.00	150 563 015	530.00	150 563 045	583.00
140 - 5	150 563 006	694.00	150 563 036	792.00	150 563 016	702.00	150 563 046	792.00
160 - 6	150 563 007	731.00	150 563 037	854.00	150 563 017	731.00	150 563 047	854.00
225 - 8	150 563 008	1,016.00	150 563 038	1,183.00	150 563 018	1,016.00	150 563 048	1,183.00
280 - 10	-	-	150 563 039	2,303.00	-	-	150 563 049	2,609.00
315 - 12	-	-	150 563 040	3,247.00	-	-	150 563 050	3,168.00

d - Size [mm]-[inch]	Double Acting (DA)			
	75 PSI	USD	150 PSI	USD
63 - 2	150 563 022	382.00	150 563 052	380.00
75 - 2 ½	150 563 023	389.00	150 563 053	386.00
90 - 3	150 563 024	398.00	150 563 054	410.00
110 - 4	-	-	150 563 055	454.00
140 - 5	-	-	150 563 056	574.00
160 - 6	-	-	150 563 057	619.00
225 - 8	-	-	150 563 058	805.00
280 - 10	-	-	150 563 059	1,603.00
315 - 12	-	-	150 563 060	2,314.00



For water use only

VFA Actuated Wafer Butterfly Valve

PVC with EPDM/Santoprene

C

d - Size [mm]-[inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	75 PSI	USD	150 PSI	USD	75 PSI	USD	150 PSI	USD
75 - 2 ½	150 985 003	363.00	150 985 033	419.00	150 985 013	363.00	150 985 043	419.00
90 - 3	150 985 004	369.00	150 985 034	520.00	150 985 014	369.00	150 985 044	472.00
110 - 4	150 985 005	479.00	150 985 035	527.00	150 985 015	479.00	150 985 045	527.00
140 - 5	150 985 006	538.00	150 985 036	626.00	150 985 016	538.00	150 985 046	626.00
160 - 6	150 985 007	645.00	150 985 037	766.00	150 985 017	645.00	150 985 047	766.00
225 - 8	150 985 008	818.00	150 985 038	960.00	150 985 018	818.00	150 985 048	960.00

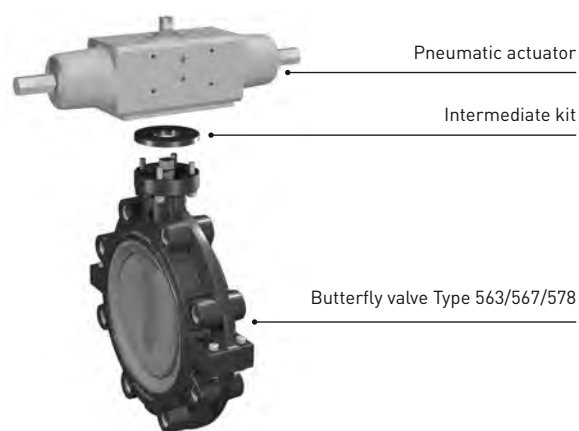
d - Size [mm]-[inch]	Double Acting (DA)			
	75 PSI	USD	150 PSI	USD
75 - 2 ½	150 985 023	333.00	150 985 053	331.00
90 - 3	150 985 024	340.00	150 985 054	353.00
110 - 4	-	-	150 985 055	399.00
140 - 5	-	-	150 985 056	408.00
160 - 6	-	-	150 985 057	531.00
225 - 8	-	-	150 985 058	582.00

Actuated Butterfly Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an "S" in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1" Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1" Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1" Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1" Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

Type 240-244/563

- Limit Switch Reading off Actuator
- Integrated Limit Switch Reading off Valve
- Positioner
- Actuator Control Box
- Stem Extension
- Pilot Valve
- Declutchable Manual Override

Components by Valve Type

Size d [inch - mm]	Type 240-244		
	Action	Intermediate Kit w/o MO	Actuator
2 - 63	FC - FO	198000595	PA30
2 - 63	DA	198000595	PA35
2½ - 75	FC - FO	198000595	PA30
2½ - 75	DA	198000595	PA35
3 - 90	FC - FO	198000596	PA35
3 - 90	DA	198000595	PA40
4 - 110	FC - FO	198000600	PA40
4 - 110	DA	198000600	PA45
5 - 140	FC - FO	198000597	PA45
5 - 140	DA	198000600	PA45
6 - 160	FC - FO	198000599	PA50
6 - 160	DA	198000600	PA55
8 - 225	FC - FO	198000598	PA55
8 - 225	DA	198000600	PA55
10 - 280	FC - FO	198000730	PA65
10 - 280	DA	198000731	PA65
12 - 315	FC - FO	198000730	PA70
12 - 315	DA	198000731	PA70

Pneumatic Actuators

Part number	Description
198811025	PA30 FO Pneumatic Actuator
198800757	PA30 FO/FC Pneumatic Actuator
198811026	PA35 FO Pneumatic Actuator
198800037	PA35 FO/FC Pneumatic Actuator
198800758	PA35 DA Pneumatic Actuator
198811027	PA40 FO Pneumatic Actuators
198800728	PA40 FO/FC Pneumatic Actuator
198800759	PA40 DA Pneumatic Actuator
198811028	PA45 FO Pneumatic Actuator
198800039	PA45 FC/FO Pneumatic Actuator
198800040	PA45 DA Pneumatic Actuator
198811029	PA50 FO Pneumatic Actuator
198800729	PA50 FC/FO Pneumatic Actuator
198811030	PA55 FO Pneumatic Actuator
198800041	PA55 FC/FO Pneumatic Actuator
198800042	PA55 DA Pneumatic Actuator
198800043	PA65 FC Pneumatic Actuator
198800044	PA65 DA Pneumatic Actuator
198811198	PA70 FO Pneumatic Actuator
198800731	PA70 FC Pneumatic Actuator
198800735	PA70 DA Pneumatic Actuator

Accessories Pneumatically Actuated Butterfly Valves

Integrated Limit Switches

C

Size [inch]	Mechanical					
	250 V AC/DC 6A		4 - 30 V DC 100 mA			
	Ag Ni	USD	Au	USD		
2 - 3	161 486 859	287.00	161 486 858	287.00		
4 - 5	161 486 305	287.00	161 486 304	287.00		
6 - 8	161 486 010	287.00	161 486 009	287.00		
Size [inch]	Inductive					
	1 - 8 V		5 - 30 V DC 100 mA		5 - 30 V DC 100 mA	
	Namur	USD	PNP	USD	NPN	USD
2 - 3	161 486 855	662.00	161 486 856	643.00	161 486 857	662.00
4 - 5	161 486 301	662.00	161 486 302	643.00	161 486 303	662.00
6 - 8	161 486 006	662.00	161 486 007	643.00	161 486 008	662.00

Limit Switches with Namur Mounting Flange

C

Voltage	Limit Switch Box with 2 Auxiliary Switches			
	Description	Part No.	USD	
250 V, 10 A	Ag Ni	199 190 282	313.00	
10 - 30 V, 0.1 A	Inductive NPN	199 190 283	505.00	
10 - 30 V, 0.1 A	Inductive PNP	199 190 284	505.00	
5 - 15 V	Inductive Namur EExi	199 190 285	512.00	
250 V, 5 A	EExd	199 190 286	1001.00	
30 V, 1 - 100 mA	Au	199 190 287	284.00	

DSR 500-3 Digital Electro-Pneumatic Positioner

C

Size	Without Feedback Signal	
	Part No.	USD
All	199 190 108	3,158.00

Positioner Mounting Flange

C

Size	Namur Mounting Flange	
	Part No.	USD
All	199 190 281	47.00

Accessories Pneumatically Actuated Butterfly Valves



Pilot Solenoid Valve

C

Voltage	Solenoid PV94		Solenoid PV95 3/2-way		Voltage	Type MNL532 3/2-5/2-way	
	FC/FO	USD	FC/FO	USD		Part No.	USD
24 V DC	199 190 546	106.00	199 190 554	153.00	110 V, AC	199 190 359	178.00
110 V, 50-60 Hz	199 190 547	106.00	199 190 555	153.00	230 V, AC	199 190 360	178.00
Voltage	Type 5470 4/2-way						
	DA	USD					
230 V, AC/DC	199 190 302	218.00					
115 V, AC/DC	199 190 303	218.00					
24 V, AC/DC	199 190 304	218.00					
					48 V, AC	199 190 361	178.00
					24 V, AC	199 190 358	178.00
					24 V, DC	199 190 357	178.00

Speed control pilot solenoid

NAMUR Connector Plate

C

d [mm]	Size [Inch]	Series PA 30-55	
		Part No.	USD
63 - 315	2 - 12	199 190 275	55.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

DIN Plug

C

Discription	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	16.00
PV94/95 Female Plug Only	150 101 066	12.00

Stem Extension

C

Size [foot]	Description	SS 316	USD
2 - 3	1st Foot	150 567 001	592.00
4 - 5	1st Foot	150 567 002	592.00
6	1st Foot	150 567 003	592.00
6	1st Foot	150 567 004	592.00
10 - 12	1st Foot	150 567 005	592.00
All	Charge per Additional Foot	-	115.00

Minimum length of 6 inches

Spare Parts Pneumatic Actuated Butterfly Valves

Type PA 30 - 90 Pneumatic Actuator

C

Type	Fail Safe to Close/Fail Safe to Open (FC/FO)		Type	Double Acting (DA)	
	Part No.	USD		Part No.	USD
PA 30 FC/FO	198 800 757	341.00	PA 30 DA	198 800 737	245.00
PA 30 FO	198 811 025	341.00	PA 35 DA	198 800 758	244.00
PA 35 FC/FO	198 800 037	393.00	PA 40 DA	198 800 759	262.00
PA 35 FO	198 811 026	393.00	PA 45 DA	198 800 040	303.00
PA 40 FC/FO	198 800 728	448.00	PA 55 DA	198 800 042	419.00
PA 40 FO	198 811 027	448.00	PA 60 DA	198 800 734	492.00
PA 45 FC/FO	198 800 039	546.00	PA 65 DA	198 800 044	613.00
PA 45 FO	198 811 028	546.00	PA 70 DA	198 800 735	777.00
PA 50 FC/FO	198 800 729	681.00	PA 75 DA	198 800 046	970.00
PA 50 FO	198 811 029	681.00	PA 80 DA	198 800 048	1,201.00
PA 55 FC/FO	198 800 041	840.00	PA 85 DA	198 800 050	1,893.00
PA 55 FO	198 811 030	840.00	PA 90 DA	198 800 051	2,618.00
PA 60 FC/FO	198 800 730	1,260.00			
PA 65 FC/FO	198 800 043	1,360.00			
PA 70 FC/FO	198 800 731	1,772.00			
PA 70 FO	198 811 198	1,686.00			
PA 75 FC/FO	198 800 045	2,434.00			
PA 80 FC/FO	198 800 047	3,195.00			



Intermediate Kit

C

d - Size [mm]-[inch]	Without Manual Override					
	Fail Safe to Close/Open (FC/FO)			Double Acting (DA)		
	Actuator	Part No.	USD	Actuator	Part No.	USD
63 - 2	PA 30	198 000 595	77.00	PA 35	198 000 595	77.00
75 - 2 ½	PA 30	198 000 595	77.00	PA 35	198 000 595	77.00
90 - 3	PA 35	198 000 596	92.00	PA 40	198 000 595	77.00
110 - 4	PA 40	198 000 600	127.00	PA 45	198 000 600	127.00
140 - 5	PA 45	198 000 597	105.00	PA 45	198 000 600	127.00
160 - 6	PA 50	198 000 599	32.00	PA 55	198 000 600	127.00
225 - 8	PA 55	198 000 598	105.00	PA 55	198 000 600	127.00
280 - 10	PA 65	198 000 730	87.00	PA 65	198 000 731	71.00
315 - 12	PA 70	198 000 730	87.00	PA 70	198 000 731	71.00

BSP to NPT Brass Adapter

C

Size	Part No.	USD
1/8" male BSP to 1/8" female NPT	150 101 038	5.00
1/4" male BSP to 1/4" female NPT	150 101 037	8.00

Comes standard with pneumatically actuated butterfly valves

DIASTAR Six Pneumatically Actuated Diaphragm Valve

PVC

C

Size [inch]	Fail Safe to Close (FC)	
	PVC	
	EPDM	USD
½	161 614 612	190.00
¾	161 614 613	200.00
1	161 614 614	214.00
1 ¼	161 614 615	268.00
1 ½	161 614 616	334.00
2	161 614 617	409.00



The DIASTAR Six is rated for 6 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

PVC

C

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	161 624 612	277.00	161 624 662	329.00	161 624 632	346.00
¾	161 624 613	310.00	161 624 663	353.00	161 624 633	372.00
1	161 624 614	358.00	161 624 664	376.00	161 624 634	396.00
1 ¼	161 624 615	443.00	161 624 665	472.00	161 624 635	496.00
1 ½	161 624 616	512.00	161 624 666	563.00	161 624 636	593.00
2	161 624 617	626.00	161 624 667	718.00	161 624 637	756.00

Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	161 627 612	321.00	161 627 662	401.00	161 627 632	421.00
½	161 627 613	344.00	161 627 663	423.00	161 627 633	446.00
¾	161 627 614	366.00	161 627 664	450.00	161 627 634	474.00
1	161 627 615	457.00	161 627 665	563.00	161 627 635	593.00
1 ¼	161 627 616	548.00	161 627 666	701.00	161 627 636	739.00
1 ½	161 627 617	699.00	161 627 667	860.00	161 627 637	905.00
2						



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

PVC

C

Size [inch]	Fail Safe to Open (FO)						
	Socket						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
1/2	161 644 612	208.00	161 644 662	236.00	161 644 632	262.00	
3/4	161 644 613	222.00	161 644 663	251.00	161 644 633	279.00	
1	161 644 614	234.00	161 644 664	269.00	161 644 634	299.00	
1 1/4	161 644 615	294.00	161 644 665	337.00	161 644 635	374.00	
1 1/2	161 644 616	370.00	161 644 666	423.00	161 644 636	471.00	
2	161 644 617	451.00	161 644 667	509.00	161 644 637	565.00	
Size [inch]	Flanged						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
1/2	161 647 612	224.00	161 647 662	286.00	161 647 632	302.00	
3/4	161 647 613	241.00	161 647 663	307.00	161 647 633	323.00	
1	161 647 614	255.00	161 647 664	323.00	161 647 634	341.00	
1 1/4	161 647 615	317.00	161 647 665	408.00	161 647 635	430.00	
1 1/2	161 647 616	401.00	161 647 666	511.00	161 647 636	538.00	
2	161 647 617	485.00	161 647 667	618.00	161 647 637	651.00	
Size [inch]	Double Acting (DA)						
	Socket						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
1/2	161 654 612	208.00	161 654 662	248.00	161 654 632	262.00	
3/4	161 654 613	222.00	161 654 663	265.00	161 654 633	279.00	
1	161 654 614	234.00	161 654 664	284.00	161 654 634	299.00	
1 1/4	161 654 615	294.00	161 654 665	355.00	161 654 635	374.00	
1 1/2	161 654 616	370.00	161 654 666	447.00	161 654 636	471.00	
2	161 654 617	451.00	161 654 667	538.00	161 654 637	565.00	
Size [inch]	Flanged						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
1/2	161 657 612	228.00	161 657 662	307.00	161 657 632	323.00	
3/4	161 657 613	253.00	161 657 663	332.00	161 657 633	349.00	
1	161 657 614	260.00	161 657 664	350.00	161 657 634	369.00	
1 1/4	161 657 615	323.00	161 657 665	436.00	161 657 635	458.00	
1 1/2	161 657 616	408.00	161 657 666	552.00	161 657 636	581.00	
2	161 657 617	495.00	161 657 667	666.00	161 657 637	701.00	

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve

PVC

C

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	161 684 612	347.00	161 684 662	402.00	161 684 632	423.00
¾	161 684 613	361.00	161 684 663	423.00	161 684 633	446.00
1	161 684 614	386.00	161 684 664	452.00	161 684 634	476.00
1 ¼	161 684 615	470.00	161 684 665	568.00	161 684 635	597.00
1 ½	161 684 616	584.00	161 684 666	711.00	161 684 636	748.00
2	161 684 617	713.00	161 684 667	870.00	161 684 637	916.00
Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	161 687 612	380.00	161 687 662	464.00	161 687 632	488.00
¾	161 687 613	404.00	161 687 663	487.00	161 687 633	513.00
1	161 687 614	428.00	161 687 664	522.00	161 687 634	550.00
1 ¼	161 687 615	537.00	161 687 665	654.00	161 687 635	688.00
1 ½	161 687 616	673.00	161 687 666	819.00	161 687 636	862.00
2	161 687 617	823.00	161 687 667	998.00	161 687 637	1,051.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 Pneumatically Actuated Diaphragm Valve



PVC

C

Size [inch]	Flanged					
	Fail Safe to Close (FC)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 007 ^	1,376.00	199 025 067 ^	1,481.00	199 025 037 ^	1,559.00
3	199 025 128 ^	1,795.00	199 025 068 ^	2,054.00	199 025 158 ^	2,162.00
4	199 025 009 ^	2,181.00	199 025 069 ^	2,366.00	199 025 039 ^	2,491.00
6	199 025 130 ^	4,691.00	199 025 070 ^	5,394.00	-	-
Size [inch]	Fail Safe to Open (FO)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 017 ^	948.00	199 025 077 ^	1,110.00	199 025 047 ^	1,169.00
3	199 025 138 ^	1,469.00	199 025 078 ^	1,715.00	199 025 168 ^	1,806.00
4	199 025 019 ^	1,994.00	199 025 079 ^	2,110.00	199 025 049 ^	2,222.00
6	199 025 140 ^	4,682.00	199 025 080 ^	5,337.00	199 025 170 ^	5,619.00
Size [inch]	Double Acting (DA)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 027 ^	948.00	199 025 087 ^	1,110.00	199 025 057 ^	1,169.00
3	199 025 148 ^	1,469.00	199 025 088 ^	1,715.00	199 025 178 ^	1,806.00
4	199 025 029 ^	1,994.00	199 025 089 ^	2,110.00	199 025 059 ^	2,222.00
6	199 025 150 ^	4,682.00	199 025 090 ^	5,337.00	199 025 180 ^	5,619.00

DIASTAR Six Pneumatically Actuated Diaphragm Valve

CPVC

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Fail Safe to Close (FC)		
Size [inch]	CPVC	
	EPDM	USD
½	163 614 612	219.00
¾	163 614 613	231.00
1	163 614 614	253.00
1 ¼	163 614 615	317.00
1 ½	163 614 616	389.00
2	163 614 617	480.00



The DIASTAR Six is rated for 6 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

CPVC

C

Fail Safe to Close (FC)						
Size [inch]	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 624 612	353.00	163 624 662	436.00	163 624 632	458.00
¾	163 624 613	372.00	163 624 663	458.00	163 624 633	482.00
1	163 624 614	408.00	163 624 664	504.00	163 624 634	530.00
1 ¼	163 624 615	512.00	163 624 665	632.00	163 624 635	665.00
1 ½	163 624 616	626.00	163 624 666	774.00	163 624 636	815.00
2	163 624 617	773.00	163 624 667	955.00	163 624 637	1,005.00

Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 627 712	381.00	163 627 762	464.00	163 627 732	486.00
¾	163 627 713	405.00	163 627 763	491.00	163 627 733	515.00
1	163 627 714	444.00	163 627 764	540.00	163 627 734	566.00
1 ¼	163 627 715	561.00	163 627 765	681.00	163 627 735	714.00
1 ½	163 627 716	684.00	163 627 766	832.00	163 627 736	873.00
2	163 627 717	844.00	163 627 767	1,026.00	163 627 737	1,076.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

CPVC

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Size [inch]	Fail Safe to Open (FO)						
	Socket						
EPDM	USD	FPM	USD	PTFE/EPDM	USD		
½	163 644 612	237.00	163 644 662	286.00	163 644 632	302.00	
¾	163 644 613	253.00	163 644 663	307.00	163 644 633	323.00	
1	163 644 614	268.00	163 644 664	323.00	163 644 634	341.00	
1 ¼	163 644 615	336.00	163 644 665	408.00	163 644 635	430.00	
1 ½	163 644 616	408.00	163 644 666	511.00	163 644 636	538.00	
2	163 644 617	495.00	163 644 667	618.00	163 644 637	651.00	
Size [inch]	Flanged						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
½	163 647 712	265.00	163 647 662	314.00	163 647 732	330.00	
¾	163 647 713	286.00	163 647 663	340.00	163 647 733	356.00	
1	163 647 714	304.00	163 647 664	359.00	163 647 734	377.00	
1 ¼	163 647 715	385.00	163 647 665	457.00	163 647 735	479.00	
1 ½	163 647 716	466.00	163 647 666	569.00	163 647 736	596.00	
2	163 647 717	566.00	163 647 667	689.00	163 647 737	722.00	
Size [inch]	Double Acting (DA)						
	Socket						
EPDM	USD	FPM	USD	PTFE/EPDM	USD		
½	163 654 612	239.00	163 654 662	286.00	163 654 632	302.00	
¾	163 654 613	257.00	163 654 663	307.00	163 654 633	323.00	
1	163 654 614	273.00	163 654 664	323.00	163 654 634	341.00	
1 ¼	163 654 615	339.00	163 654 665	408.00	163 654 635	430.00	
1 ½	163 654 616	428.00	163 654 666	511.00	163 654 636	538.00	
2	163 654 617	518.00	163 654 667	618.00	163 654 637	651.00	
Size [inch]	Flanged						
	EPDM	USD	FPM	USD	PTFE/EPDM	USD	
½	163 657 712	267.00	163 657 762	314.00	163 657 732	330.00	
¾	163 657 713	290.00	163 657 763	340.00	163 657 733	356.00	
1	163 657 714	309.00	163 657 764	359.00	163 657 734	377.00	
1 ¼	163 657 715	388.00	163 657 765	457.00	163 657 735	479.00	
1 ½	163 657 716	486.00	163 657 766	569.00	163 657 736	596.00	
2	163 657 717	589.00	163 657 767	689.00	163 657 737	722.00	

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve

CPVC

C

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 684 612	412.00	163 684 662	482.00	163 684 632	508.00
¾	163 684 613	434.00	163 684 663	507.00	163 684 633	534.00
1	163 684 614	478.00	163 684 664	558.00	163 684 634	588.00
1 ¼	163 684 615	598.00	163 684 665	698.00	163 684 635	735.00
1 ½	163 684 616	733.00	163 684 666	857.00	163 684 636	902.00
2	163 684 617	904.00	163 684 667	1,035.00	163 684 637	1,090.00
Size [inch]	Flanged					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
½	163 687 712	440.00	163 687 762	510.00	163 687 732	536.00
¾	163 687 713	467.00	163 687 763	540.00	163 687 733	567.00
1	163 687 714	514.00	163 687 764	594.00	163 687 734	624.00
1 ¼	163 687 715	647.00	163 687 765	747.00	163 687 735	784.00
1 ½	163 687 716	791.00	163 687 766	915.00	163 687 736	960.00
2	163 687 717	975.00	163 687 767	1,106.00	163 687 737	1,161.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 Pneumatically Actuated Diaphragm Valve



C

CPVC

Size [inch]	Flanged					
	Fail Safe to Close (FC)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 637 ^	1,415.00	199 025 471 ^	1,607.00	199 025 667 ^	1,724.00
3	199 025 698 ^	1,934.00	199 025 472 ^	2,115.00	199 025 728 ^	2,226.00
4	199 025 639 ^	2,400.00	199 025 473 ^	2,805.00	199 025 669 ^	2,952.00
Size [inch]	Fail Safe to Open (FO)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 647 ^	1,214.00	-	-	199 025 677 ^	1,492.00
3	199 025 708 ^	1,603.00	199 025 475 ^	1,798.00	199 025 738 ^	1,893.00
4	199 025 649 ^	2,585.00	199 025 476 ^	2,525.00	199 025 679 ^	2,657.00
Size [inch]	Double Acting (DA)					
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
	EPDM	USD	FPM	USD	PTFE/EPDM	USD
2 ½	199 025 657 ^	1,214.00	199 025 477 ^	1,418.00	199 025 687 ^	1,492.00
3	199 025 718 ^	1,603.00	199 025 478 ^	1,798.00	199 025 748 ^	1,893.00
4	199 025 659 ^	2,131.00	199 025 479 ^	2,349.00	199 025 689 ^	2,473.00

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

DIASTAR Ten PROGEF® Standard PP

C

d [inch]	Fail Safe to Close (FC)							
	Socket Fusion Spigot				IR/Butt Fusion			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 625 012	307.00	167 625 032	450.00	167 625 112	307.00	167 625 132	450.00
25	167 625 013	358.00	167 625 033	467.00	167 625 113	358.00	167 625 133	467.00
32	167 625 014	410.00	167 625 034	542.00	167 625 114	410.00	167 625 134	542.00
40	167 625 015	473.00	167 625 035	650.00	167 625 115	467.00	167 625 135	650.00
50	167 625 016	559.00	167 625 036	792.00	167 625 116	564.00	167 625 136	792.00
63	167 625 017	699.00	167 625 037	1,008.00	167 625 117	705.00	167 625 137	1,008.00
Size [inch]	Flanged							
	EPDM	USD	PTFE	USD				
½	167 627 712	362.00	167 627 732	505.00				
¾	167 627 713	434.00	167 627 733	543.00				
1	167 627 714	499.00	167 627 734	631.00				
1 ¼	167 627 715	586.00	167 627 735	769.00				
1 ½	167 627 716	700.00	167 627 736	928.00				
2	167 627 717	889.00	167 627 737	1,192.00				
d [inch]	Socket Fusion Union				IR/Butt Fusion Union			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 624 012	317.00	167 624 032	404.00	167 624 112	336.00	167 624 132	450.00
25	167 624 013	365.00	167 624 033	431.00	167 624 113	389.00	167 624 133	467.00
32	167 624 014	413.00	167 624 034	458.00	167 624 114	426.00	167 624 134	542.00
40	167 624 015	473.00	167 624 035	571.00	167 624 115	489.00	167 624 135	650.00
50	167 624 016	578.00	167 624 036	685.00	167 624 116	582.00	167 624 136	792.00
63	167 624 017	711.00	167 624 037	877.00	167 624 117	747.00	167 624 137	1,008.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

PROGEF® Standard PP

C

d [inch]	Fail Safe to Open (FO)							
	Socket Fusion Spigot				IR/Butt Fusion			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 645 012	221.00	167 645 032	341.00	167 645 112	241.00	167 645 132	310.00
25	167 645 013	237.00	167 645 033	372.00	167 645 113	258.00	167 645 133	404.00
32	167 645 014	262.00	167 645 034	404.00	167 645 114	272.00	167 645 134	450.00
40	167 645 015	316.00	167 645 035	497.00	167 645 115	340.00	167 645 135	503.00
50	167 645 016	398.00	167 645 036	621.00	167 645 116	428.00	167 645 136	621.00
63	167 645 017	481.00	167 645 037	853.00	167 645 117	517.00	167 645 137	853.00
Size [inch]	Flanged							
	EPDM	USD	PTFE	USD				
½	167 647 712	296.00	167 647 732	365.00				
¾	167 647 713	334.00	167 647 733	480.00				
1	167 647 714	361.00	167 647 734	539.00				
1 ¼	167 647 715	459.00	167 647 735	622.00				
1 ½	167 647 716	564.00	167 647 736	757.00				
2	167 647 717	701.00	167 647 737	1,037.00				
d [inch]	Socket Fusion Union				IR/Butt Fusion Union			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 644 012	234.00	167 644 032	389.00	167 644 112	219.00	167 644 132	389.00
25	167 644 013	252.00	167 644 033	404.00	167 644 113	237.00	167 644 133	404.00
32	167 644 014	265.00	167 644 034	421.00	167 644 114	247.00	167 644 134	480.00
40	167 644 015	336.00	167 644 035	582.00	167 644 115	313.00	167 644 135	589.00
50	167 644 016	421.00	167 644 036	699.00	167 644 116	394.00	167 644 136	729.00
63	167 644 017	508.00	167 644 037	853.00	167 644 117	475.00	167 644 137	644.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

PROGEF® Standard PP

C

d [inch]	Double Acting (DA)							
	Socket Fusion Spigot				IR/Butt Fusion			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 655 012	216.00	167 655 032	341.00	167 655 112	241.00	167 655 132	310.00
25	167 655 013	233.00	167 655 033	372.00	167 655 113	258.00	167 655 133	404.00
32	167 655 014	245.00	167 655 034	404.00	167 655 114	272.00	167 655 134	450.00
40	167 655 015	310.00	167 655 035	497.00	167 655 115	340.00	167 655 135	503.00
50	167 655 016	390.00	167 655 036	621.00	167 655 116	428.00	167 655 136	621.00
63	167 655 017	472.00	167 655 037	853.00	167 655 117	517.00	167 655 137	853.00
Size [inch]	Flanged							
	EPDM	USD	PTFE	USD				
½	167 657 712	296.00	167 657 732	365.00				
¾	167 657 713	334.00	167 657 733	480.00				
1	167 657 714	361.00	167 657 734	539.00				
1 ¼	167 657 715	459.00	167 657 735	622.00				
1 ½	167 657 716	564.00	167 657 736	757.00				
2	167 657 717	701.00	167 657 737	1,037.00				
d [inch]	Socket Fusion Union				IR/Butt Fusion Union			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 654 012	234.00	167 654 032	389.00	167 654 112	219.00	167 654 132	389.00
25	167 654 013	252.00	167 654 033	404.00	167 654 113	237.00	167 654 133	404.00
32	167 654 014	265.00	167 654 034	421.00	167 654 114	247.00	167 654 134	480.00
40	167 654 015	336.00	167 654 035	582.00	167 654 115	313.00	167 654 135	589.00
50	167 654 016	421.00	167 654 036	699.00	167 654 116	394.00	167 654 136	729.00
63	167 654 017	508.00	167 654 037	853.00	167 654 117	475.00	167 654 137	703.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

PROGEF® Standard PP

C

d [inch]	Fail Safe to Close (FC)							
	Socket Fusion Spigot				IR/Butt Fusion			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 685 012	392.00	167 685 032	473.00	167 685 112	401.00	167 685 132	520.00
25	167 685 013	412.00	167 685 033	501.00	167 685 113	423.00	167 685 133	554.00
32	167 685 014	444.00	167 685 034	534.00	167 685 114	450.00	167 685 134	587.00
40	167 685 015	558.00	167 685 035	672.00	167 685 115	564.00	167 685 135	739.00
50	167 685 016	696.00	167 685 036	837.00	167 685 116	709.00	167 685 136	923.00
63	167 685 017	848.00	167 685 037	1,024.00	167 685 117	863.00	167 685 137	1,125.00
Size [inch]	Flanged							
	EPDM	USD	PTFE	USD				
½	167 687 712	456.00	167 687 732	575.00				
¾	167 687 713	499.00	167 687 733	630.00				
1	167 687 714	539.00	167 687 734	676.00				
1 ¼	167 687 715	680.00	167 687 735	855.00				
1 ½	167 687 716	845.00	167 687 736	1,059.00				
2	167 687 717	1,047.00	167 687 737	1,309.00				
d [inch]	Socket Fusion Union				IR/Butt Fusion Union			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	167 684 012	397.00	167 684 032	510.00	167 684 112	385.00	167 684 132	501.00
25	167 684 013	421.00	167 684 033	540.00	167 684 113	409.00	167 684 133	534.00
32	167 684 014	446.00	167 684 034	578.00	167 684 114	436.00	167 684 134	564.00
40	167 684 015	561.00	167 684 035	725.00	167 684 115	545.00	167 684 135	712.00
50	167 684 016	702.00	167 684 036	905.00	167 684 116	682.00	167 684 136	892.00
63	167 684 017	856.00	167 684 037	1,104.00	167 684 117	834.00	167 684 137	1,088.00

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve

PROGEF® Standard PP

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Main Size [mm]	Branch Size [mm]	Valve Size [mm]	Zero Static - Fail Safe to Close (FC)			
			IR/Butt Fusion			
			EPDM	USD	PTFE	USD
20	20	20	167 689 101	775.00	167 689 301	853.00
25	20	25	167 689 103	775.00	167 689 303	853.00
25	25	25	167 689 104	775.00	167 689 304	853.00
32	20	25	167 689 107	853.00	167 689 307	930.00
32	25	25	167 689 108	853.00	167 689 308	930.00
32	32	32	167 689 109	853.00	167 689 309	930.00
40	20	32	167 689 112	930.00	167 689 312	1,008.00
50	20	25	167 689 118	1,008.00	167 689 318	1,087.00
50	25	32	167 689 119	1,008.00	167 689 319	1,087.00
50	32	32	167 689 120	1,008.00	167 689 320	1,087.00
63	20	25	167 689 125	1,163.00	167 689 325	1,240.00
63	25	32	167 689 126	1,163.00	167 689 326	1,240.00
63	32	32	167 689 127	1,163.00	167 689 327	1,240.00
90	20	32	-	-	167 639 341	1,189.00
90	25	32	-	-	167 639 342	1,216.00
90	32	32	-	-	167 639 343	1,224.00
90	50	63	-	-	167 639 345	1,543.00
90	63	63	-	-	167 639 346	1,812.00
110	20	32	-	-	167 639 351	1,201.00
110	25	32	-	-	167 639 352	1,332.00
110	32	32	-	-	167 639 353	1,353.00
110	50	63	-	-	167 639 355	1,670.00
110	63	63	-	-	167 639 356	2,051.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 Pneumatically Actuated Diaphragm Valve



PROGEF® Standard PP

C

Size [inch]	Flanged							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
2 ½	199 025 207 ^	1,666.00	199 025 237 ^	2,032.00	199 025 217 ^	1,059.00	199 025 247 ^	1,269.00
3	199 025 268 ^	2,085.00	199 025 298 ^	2,544.00	199 025 278 ^	1,584.00	199 025 308 ^	1,903.00
4	199 025 209 ^	2,481.00	199 025 239 ^	3,027.00	199 025 219 ^	2,113.00	199 025 249 ^	2,536.00
6	199 025 270 ^	5,461.00	-	-	199 025 280 ^	4,993.00	199 025 310 ^	5,992.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	PTFE	USD				
2 ½	199 025 227 ^	1,059.00	199 025 257 ^	1,269.00				
3	199 025 288 ^	1,584.00	199 025 318 ^	1,903.00				
4	199 025 229 ^	2,113.00	199 025 259 ^	2,536.00				
6	199 025 290 ^	4,993.00	199 025 320 ^	5,992.00				

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

PROGEF® Natural PP

C

d [inch]	IR/Butt Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	PTFE	USD	EPDM	USD	PTFE	USD
20	168 625 112	406.00	168 625 132	497.00	168 645 112	284.00	168 645 132	370.00
25	168 625 113	437.00	168 625 133	513.00	168 645 113	337.00	168 645 133	425.00
32	168 625 114	467.00	168 625 134	574.00	168 645 114	354.00	168 645 134	444.00
40	168 625 115	588.00	168 625 135	750.00	168 645 115	459.00	168 645 135	602.00
50	168 625 116	647.00	168 625 136	840.00	168 645 116	531.00	168 645 136	709.00
63	168 625 117	780.00	168 625 137	1,008.00	168 645 117	564.00	168 645 137	778.00
d [inch]	Double Acting (DA)							
	EPDM	USD	PTFE	USD				
20	168 655 112	284.00	168 655 132	370.00				
25	168 655 113	337.00	168 655 133	425.00				
32	168 655 114	354.00	168 655 134	444.00				
40	168 655 115	459.00	168 655 135	602.00				
50	168 655 116	531.00	168 655 136	709.00				
63	168 655 117	564.00	168 655 137	778.00				



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve

PROGEF® Natural PP

C

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	Zero Static - Fail Safe to Close (FC)			
			IR/Butt Fusion			
			EPDM	USD	PTFE	USD
20	20	20	168 629 101	812.00	168 629 301	886.00
25	20	25	168 629 103	812.00	168 629 303	886.00
25	25	25	168 629 104	812.00	168 629 304	886.00
32	20	25	168 629 107	886.00	168 629 307	960.00
32	25	25	168 629 108	886.00	168 629 308	960.00
32	32	32	168 629 109	886.00	168 629 309	960.00
40	20	32	168 629 112	960.00	168 629 312	960.00
50	20	25	168 629 118	1,035.00	168 629 318	1,035.00
50	25	32	168 629 119	1,035.00	168 629 319	1,035.00
50	32	32	168 629 120	1,035.00	168 629 320	1,035.00
63	20	25	168 629 125	1,181.00	168 629 325	1,181.00
63	25	32	168 629 126	1,181.00	168 629 326	1,181.00
63	32	32	168 629 127	1,181.00	168 629 327	1,181.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

SYGEF® Standard PVDF

C

d [mm]	Fail Safe to Close (FC)							
	Socket Fusion Spigot		IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 625 032	504.00	185 625 132	510.00	185 624 032	569.00	185 624 132	569.00
25	185 625 033	556.00	185 625 133	564.00	185 624 033	604.00	185 624 133	604.00
32	185 625 034	592.00	185 625 134	609.00	185 624 034	701.00	185 624 134	701.00
40	185 625 035	731.00	185 625 135	758.00	185 624 035	1,010.00	185 624 135	1,010.00
50	185 625 036	878.00	185 625 136	920.00	185 624 036	1,179.00	185 624 136	1,179.00
63	185 625 037	1,073.00	185 625 137	1,131.00	185 624 037	1,466.00	185 624 137	1,466.00
Size [inch]	Flanged							
	PTFE/EPDM	USD						
½	185 627 732	569.00						
¾	185 627 733	604.00						
1	185 627 734	701.00						
1 ¼	185 627 735	1,010.00						
1 ½	185 627 736	1,179.00						
2	185 627 737	1,466.00						
d [mm]	Fail Safe to Open (FO)							
	Socket Fusion Spigot		IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 645 032	443.00	185 645 132	443.00	185 644 032	521.00	185 644 132	521.00
25	185 645 033	473.00	185 645 133	473.00	185 644 033	561.00	185 644 133	561.00
32	185 645 034	527.00	185 645 134	527.00	185 644 034	682.00	185 644 134	682.00
40	185 645 035	734.00	185 645 135	734.00	185 644 035	927.00	185 644 135	927.00
50	185 645 036	895.00	185 645 136	895.00	185 644 036	1,141.00	185 644 136	1,141.00
63	185 645 037	1,222.00	185 645 137	1,222.00	185 644 037	1,435.00	185 644 137	1,435.00
Size [inch]	Flanged							
	PTFE/EPDM	USD						
½	185 647 732	734.00						
¾	185 647 733	813.00						
1	185 647 734	855.00						
1 ¼	185 647 735	938.00						
1 ½	185 647 736	1,141.00						
2	185 647 737	1,466.00						

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

SYGEF® Standard PVDF

C

d [mm]	Double Acting (DA)							
	Socket Fusion Spigot		IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 655 032	443.00	185 655 132	443.00	185 654 032	521.00	185 654 132	521.00
25	185 655 033	473.00	185 655 133	473.00	185 654 033	561.00	185 654 133	561.00
32	185 655 034	527.00	185 655 134	527.00	185 654 034	682.00	185 654 134	682.00
40	185 655 035	734.00	185 655 135	734.00	185 654 035	927.00	185 654 135	927.00
50	185 655 036	895.00	185 655 136	895.00	185 654 036	1,141.00	185 654 136	1,141.00
63	185 655 037	1,222.00	185 655 137	1,222.00	185 654 037	1,435.00	185 654 137	1,435.00
Size [inch]	Flanged							
	PTFE/EPDM	USD						
½	185 657 732	734.00						
¾	185 657 733	813.00						
1	185 657 734	855.00						
1 ¼	185 657 735	938.00						
1 ½	185 657 736	1,141.00						
2	185 657 737	1,466.00						

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

SYGEF® Standard PVDF

C

d [mm]	Fail Safe to Close (FC)							
	Socket Fusion Spigot		IR/Butt Fusion Spigot		Socket Fusion Union		IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 685 032	594.00	185 685 132	613.00	185 684 032	647.00	185 684 132	660.00
25	185 685 033	632.00	185 685 133	653.00	185 684 033	682.00	185 684 133	702.00
32	185 685 034	675.00	185 685 134	697.00	185 684 034	729.00	185 684 134	749.00
40	185 685 035	849.00	185 685 135	876.00	185 684 035	918.00	185 684 135	941.00
50	185 685 036	1,062.00	185 685 136	1,090.00	185 684 036	1,158.00	185 684 136	1,173.00
63	185 685 037	1,297.00	185 685 137	1,329.00	185 684 037	1,398.00	185 684 137	1,430.00
Size [inch]	Flanged							
	PTFE/EPDM	USD						
½	185 687 732	895.00						
¾	185 687 733	975.00						
1	185 687 734	1,017.00						
1 ¼	185 687 735	1,099.00						
1 ½	185 687 736	1,335.00						
2	185 687 737	1,560.00						

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 Pneumatically Actuated Diaphragm Valve



SYGEF® Standard PVDF

C

Size [inch]	Flanged						
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
	PTFE	USD	PTFE	USD	PTFE	USD	
2 ½	199 025 327 ^	2,876.00	199 025 337 ^	2,300.00	199 025 347 ^	2,300.00	
3	199 025 358 ^	3,750.00	199 025 368 ^	3,078.00	199 025 378 ^	3,078.00	
4	199 025 329 ^	4,823.00	199 025 339 ^	3,863.00	199 025 349 ^	3,863.00	
6	-	-	199 025 370 ^	7,464.00	199 025 380 ^	7,464.00	

DIASTAR Ten Pneumatically Actuated Diaphragm Valve



Socket Fusion



IR/Butt Fusion



Flanged



Socket Fusion Union



IR/Butt Fusion Union

SYGEF® Plus PVDF-HP

C

d [mm]	IR/Butt Fusion					
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
	PTFE/EPDM	USD	PTFE/FPM	USD	PTFE/EPDM	USD
20	180 625 132	662.00	180 645 132	538.00	180 655 132	538.00
25	180 625 133	701.00	180 645 133	580.00	180 655 133	580.00
32	180 625 134	787.00	180 645 134	658.00	180 655 134	658.00
40	180 625 135	895.00	180 645 135	895.00	180 655 135	895.00
50	180 625 136	1,141.00	180 645 136	1,099.00	180 655 136	1,099.00
63	180 625 137	1,548.00	180 645 137	1,466.00	180 655 137	1,466.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus Pneumatically Actuated Diaphragm Valve

SYGEF® Plus PVDF-HP

C

d [mm]	IR/Butt Fusion				IR/Butt Fusion Union			
	Fail Safe to Close (FC)				Fail Safe to Close (FC)			
	PTFE/EPDM	USD	PTFE/FPM	USD	PTFE/EPDM	USD	PTFE/FPM	USD
20	181 685 132	754.00	181 685 152	754.00	181 684 132	792.00	181 684 152	792.00
25	181 685 133	803.00	181 685 153	803.00	181 684 133	845.00	181 684 153	845.00
32	181 685 134	854.00	181 685 154	854.00	181 684 134	896.00	181 684 154	896.00
40	181 685 135	1,073.00	181 685 155	1,073.00	181 684 135	1,127.00	181 684 155	1,127.00
50	181 685 136	1,342.00	181 685 156	1,342.00	181 684 136	1,410.00	181 684 156	1,410.00
63	181 685 137	1,638.00	181 685 157	1,638.00	181 684 137	1,719.00	181 684 157	1,719.00

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

5-series DIASTAR TenPlus Valves PVDF-HP

DIASTAR TenPlus SYGEF® Plus PVDF

C

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	Zero Static - Fail Safe to Close (FC)			
			IR/Butt Fusion			
			EPDM	USD	PTFE	USD
20	20	20	181 689 301	1,136.00	181 689 501	1,136.00
25	20	25	181 689 303	1,144.00	181 689 503	1,144.00
25	25	25	181 689 304	1,168.00	181 689 504	1,168.00
32	20	25	181 689 307	1,159.00	181 689 507	1,159.00
32	25	25	181 689 308	1,181.00	181 689 508	1,181.00
32	32	32	181 689 309	1,167.00	181 689 509	1,167.00
40	20	32	181 689 312	1,191.00	181 689 512	1,191.00
40	25	32	181 689 313	1,208.00	181 689 513	1,208.00
40	32	32	181 689 314	1,227.00	181 689 514	1,227.00
40	40	32	181 689 315	1,240.00	181 689 515	1,240.00
50	20	25	181 689 318	1,380.00	181 689 518	1,380.00
50	25	32	181 689 319	1,482.00	181 689 519	1,482.00
50	32	32	181 689 320	1,498.00	181 689 520	1,498.00
50	40	63	181 689 321	1,531.00	181 689 521	1,531.00
50	50	63	181 689 322	1,560.00	181 689 522	1,560.00
63	20	25	181 689 325	1,604.00	181 689 525	1,604.00
63	25	32	181 689 326	1,673.00	181 689 526	1,673.00
63	32	32	181 689 327	1,721.00	181 689 527	1,721.00
63	40	63	181 689 328	1,955.00	181 689 528	1,955.00
63	50	63	181 689 329	2,036.00	181 689 529	2,036.00
63	63	63	181 689 330	2,230.00	181 689 530	2,230.00
90	20	32	181 689 341	2,758.00	181 689 541	2,758.00
90	25	32	181 689 342	2,758.00	181 689 542	2,758.00
90	32	32	181 689 343	2,758.00	181 689 543	2,758.00
90	50	63	181 689 345	3,746.00	181 689 545	3,746.00
90	63	63	181 689 346	3,746.00	181 689 546	3,746.00
110	20	32	181 689 351	3,014.00	181 689 551	3,014.00
110	25	32	181 689 352	3,014.00	181 689 552	3,014.00
110	32	32	181 689 353	3,014.00	181 689 553	3,014.00
110	50	63	181 689 355	4,231.00	181 689 555	4,231.00
110	63	63	181 689 356	4,231.00	181 689 556	4,231.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 Pneumatically Actuated Diaphragm Valve



SYGEF® Plus PVDF- HP

C

Size [inch]	Flanged					
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
	PTFE	USD	PTFE	USD	PTFE	USD
2 ½	199 025 387	^ 3,152.00	199 025 397	^ 2,469.00	199 025 407	^ 2,469.00
3	199 025 448	^ 4,099.00	199 025 458	^ 3,826.00	199 025 468	^ 3,826.00
4	199 025 389	^ 5,276.00	199 025 399	^ 4,883.00	199 025 409	^ 4,883.00
6	-	-	199 025 460	^ 11,881.00	199 025 470	^ 11,881.00

Actuated Diaphragm Valves: Accessories and Component Parts

Available components and accessories are on the following pages of the price list. If accessories are to be added and assembled by GF, **please order by adding an “S” in front of the valve part number** and adjust the description to include the desired accessories.

Example: Part number **199133005** (1” Type 133 Ball Valve PVC/EPDM) assembled with **167482627** (1” Multifunction Module with Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199133005** 1” Type 133 Ball Valve PVC/EPDM assembled with MFM w/limit switch 167482627
- PO item 2: **167482627** 1” Multifunction Module with Mechanical Limit Switches Ag-Ni



Optional Accessories

DIASTAR

Limit Switch
Positioner
Actuator Control Box
Manual Override/Stroke Limiter
Pilot Valve

Accessories DIASTAR Valve

DIASTAR Limit Switches

C

Size [inch]	Type	Voltage	Description	Part No.	USD
½ - 2	ER52 - 1	250 V, 6 A	Ag Ni	199 190 305	206.00
½ - 2	ER52 - 2	4 - 30 V, 1 - 100 mA	Au	199 190 306	224.00
½ - 2	ER52 - 3	5 - 30 V	NPN	199 190 307	517.00
½ - 2	ER52 - 4	5 - 30 V	PNP	199 190 308	517.00
½ - 2	ER52 - 5	8 V	EExi	199 190 309	441.00
½ - 2	ER52 - 6	250 V, 5 A	EExd	199 190 405	1,157.00
2 ½ - 6	ER53 - 1	250 V, 6 A	Ag Ni	199 190 293	277.00
2 ½ - 6	ER53 - 2	4 - 30 V, 1 - 100 mA	Au	199 190 297	319.00
2 ½ - 6	ER53 - 3	10 - 30 V	NPN	199 190 294	750.00
2 ½ - 6	ER53 - 4	10 - 30 V	PNP	199 190 295	750.00
2 ½ - 6	ER53 - 5	8 V	EExi	199 190 296	533.00
2 ½ - 6	ER53 - 6	250 V, 5 A	EExd	199 190 298	1,157.00



ER53 has 2m cable connection - All other ER53 models have plug connections

Requires ER53 Mounting Set to mount to DIASTAR Valve

ER53 Mounting Set

C

Size [inch]	Type	Part No.	USD
½ - 1	ER52	199 190 387	45.00
1 ¼	ER52	199 190 388	45.00
1 ½ - 2	ER52	199 190 389	45.00
2 ½ - 6	ER53	199 190 310	123.00

Required to mount a ER53 to DIASTAR Valve

Digital Electro-Pneumatic Positioner

C

Size [inch]	Without Feedback Signal		
	Type	4 - 20mA	USD
½ - 2	DSR 500-1	199 190 001	2,234.00
2 ½ - 6	DSR 500-2	199 190 029	2,480.00

Requires attachment kit to mount to DIASTAR Valve

For actuator function FC only - Positioners for actuator function FO available upon request

Attachment Kit

C

Size [inch]	Without Opt. Ind.	USD	With Opt. Ind.	USD
½ - 1	199 190 414	109.00	199 190 417	209.00
1 ¼ - 2	199 190 415	109.00	199 190 418	209.00
2 ½ - 6	199 190 416	233.00	199 190 419	209.00

Opt. Ind. - Optical position indicator

Required for DSR 500 Positioner

BSP to NPT Brass Adapter

C

Size	Part No.	USD
1/8" male BSP to 1/8" female NPT	150 101 038	5.00
1/4" male BSP to 1/4" female NPT	150 101 037	8.00

Does not come standard with DIASTAR Valves

Accessories 5-Series DIASTAR

Pilot Solenoid Valve



C

Voltage	Solenoid PV94		Solenoid PV95 3/2-way	
	FC/FO	USD	FC/FO	USD
24 V DC	199 190 546	106.00	199 190 554	153.00
110 V, 50-60 Hz	199 190 547	106.00	199 190 555	153.00
Voltage	Type 5470 4/2-way			
	DA	USD		
230 V, AC/DC	199 190 302	218.00		
115 V, AC/DC	199 190 303	218.00		
24 V, AC/DC	199 190 304	218.00		

Voltage	Type MNL532 3/2-5/2-way	
	Part No.	USD
110 V, AC	199 190 359	178.00
230 V, AC	199 190 360	178.00
48 V, AC	199 190 361	178.00
24 V, AC	199 190 358	178.00
24 V, DC	199 190 357	178.00

Speed control pilot solenoid

NAMUR Connector Plate

C

Size [inch]	Part No.	USD
1/8	199 190 378	62.00
1/4	199 190 379	76.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

DIN Plug

C

Discription	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	16.00
PV94/95 Female Plug Only	150 101 066	12.00

Stroke Limiter

C

Size [inch]	With Manual Override			
	DIASTAR Ten	USD	DIASTAR TenPlus	USD
1/2	199 190 381	37.00	199 190 382	38.00
3/4	199 190 382	37.00	199 190 382	38.00
1	199 190 382	37.00	199 190 383	43.00
1 1/4	199 190 383	42.00	199 190 384	52.00
1 1/2	199 190 384	50.00	199 190 385	49.00
2	199 190 384	50.00	199 190 385	49.00



Size [inch]	With Manual Override	
	DIASTAR 025	USD
2 1/2 - 3	199 190 318	105.00
4 - 6	199 190 319	140.00

Clear Cap for Stroke Limiter

C

Size [inch]	With Manual Override			
	DIASTAR Ten	USD	DIASTAR TenPlus	USD
1/2	198 203 791	4.00	198 203 791	4.00
3/4	198 203 791	4.00	198 203 791	4.00
1	198 203 791	4.00	198 203 792	4.00
1 1/4	198 203 792	4.00	198 203 792	4.00
1 1/2	198 203 792	4.00	198 203 792	4.00
2	198 203 792	4.00	198 203 792	4.00

Size [inch]	With Manual Override	
	DIASTAR 025	USD
2 1/2 - 6	198 806 398	38.00

Type 582 Pressure Reducing Valve

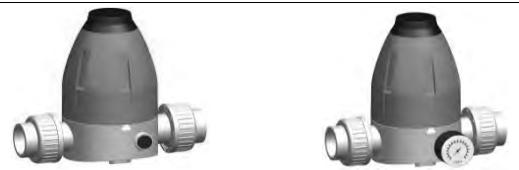
PVC

A

Size [inch]	Without Gauge							
	Socket				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	161 582 202	507.00	161 582 212	553.00	161 582 602	583.00	161 582 612	636.00
¾	161 582 203	684.00	161 582 213	732.00	161 582 603	786.00	161 582 613	845.00
1	161 582 204	796.00	161 582 214	849.00	161 582 604	916.00	161 582 614	979.00
1 ¼	161 582 205	855.00	161 582 215	911.00	161 582 605	983.00	161 582 615	1,048.00
1 ½	161 582 206	929.00	161 582 216	964.00	161 582 606	1,069.00	161 582 616	1,109.00
2	161 582 207	1,171.00	161 582 217	1,200.00	161 582 607	1,346.00	161 582 617	1,380.00
Size [inch]	With Gauge							
	Socket							
	EPDM	USD	FPM	USD				
½	161 582 222	558.00	161 582 232	609.00				
¾	161 582 223	752.00	161 582 233	806.00				
1	161 582 224	876.00	161 582 234	935.00				
1 ¼	161 582 225	940.00	161 582 235	1,003.00				
1 ½	161 582 226	1,023.00	161 582 236	1,061.00				
2	161 582 227	1,288.00	161 582 237	1,320.00				

CPVC

A

Size [inch]	Without Gauge							
	Socket				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	163 582 202	803.00	163 582 212	819.00	163 582 602	771.00	163 582 612	842.00
¾	163 582 203	1,117.00	163 582 213	1,170.00	163 582 603	1,040.00	163 582 613	1,108.00
1	163 582 204	1,368.00	163 582 214	1,426.00	163 582 604	1,211.00	163 582 614	1,279.00
1 ¼	163 582 205	1,573.00	163 582 215	1,631.00	163 582 605	1,299.00	163 582 615	1,386.00
1 ½	163 582 206	1,660.00	163 582 216	1,723.00	163 582 606	1,414.00	163 582 616	1,466.00
2	163 582 207	2,495.00	163 582 217	2,558.00	163 582 607	1,780.00	163 582 617	1,825.00
Size [inch]	With Gauge							
	Socket							
	EPDM	USD	FPM	USD				
½	163 582 222	884.00	163 582 232	901.00				
¾	163 582 223	1,230.00	163 582 233	1,287.00				
1	163 582 224	1,505.00	163 582 234	1,568.00				
1 ¼	163 582 225	1,730.00	163 582 235	1,798.00				
1 ½	163 582 226	1,827.00	163 582 236	1,896.00				
2	163 582 227	2,745.00	163 582 237	2,816.00				

Type 582 Pressure Reducing Valve

PROGEF® Standard PP

A

d [mm]	Without Gauge							
	Socket Fusion Spigot				Socket Fusion Union			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	167 582 002	580.00	167 582 012	648.00	167 582 102	725.00	167 582 112	764.00
25	167 582 003	765.00	167 582 013	808.00	167 582 103	957.00	167 582 113	1,002.00
32	167 582 004	885.00	167 582 014	938.00	167 582 104	1,107.00	167 582 114	1,155.00
40	167 582 005	1,027.00	167 582 015	1,082.00	167 582 105	1,284.00	167 582 115	1,335.00
50	167 582 006	1,054.00	167 582 016	1,122.00	167 582 106	1,318.00	167 582 116	1,386.00
63	167 582 007	1,290.00	167 582 017	1,362.00	167 582 107	1,613.00	167 582 117	1,702.00
d [mm]	IR/Butt Fusion Union							
	EPDM	USD	FPM	USD				
20	167 582 502	797.00	167 582 512	804.00	 Socket Fusion Spigot Socket Fusion Union			
25	167 582 503	1,052.00	167 582 513	1,093.00				
32	167 582 504	1,217.00	167 582 514	1,260.00				
40	167 582 505	1,412.00	167 582 515	1,460.00				
50	167 582 506	1,450.00	167 582 516	1,515.00				
63	167 582 507	1,775.00	167 582 517	1,872.00				

SYGEF® Standard PVDF

A

d [mm]	Without Gauge						 Socket Fusion Spigot
	Socket Fusion Spigot		Socket Fusion Union		IR/Butt Fusion Union		
	FPM	USD	FPM	USD	FPM	USD	
20	185 582 012	1,292.00	185 582 112	1,550.00	185 582 512	1,628.00	
25	185 582 013	1,950.00	185 582 113	2,339.00	185 582 513	2,456.00	
32	185 582 014	2,157.00	185 582 114	2,480.00	185 582 514	2,604.00	
40	185 582 015	2,480.00	185 582 115	2,976.00	185 582 515	3,125.00	
50	185 582 016	2,798.00	185 582 116	3,218.00	185 582 516	3,379.00	
63	185 582 017	3,498.00	185 582 117	4,197.00	185 582 517	4,827.00	

SYGEF® Plus PVDF- HP

A

d [mm]	Without Gauge				 IR/Butt Fusion Union
	Socket Fusion Spigot		IR/Butt Fusion Union		
	FPM	USD	FPM	USD	
20	180 582 012	1,937.00	180 582 512	2,035.00	
25	180 582 013	2,808.00	180 582 513	2,825.00	
32	180 582 014	3,101.00	180 582 514	3,255.00	
40	180 582 015	3,422.00	180 582 515	3,750.00	
50	180 582 016	3,862.00	180 582 516	4,055.00	
63	180 582 017	5,246.00	180 582 517	6,033.00	



All Type 586 Pressure Retaining Valves are sold without pressure gauges standard

PVC

Size [inch]	Socket				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	161 586 202	345.00	161 586 212	381.00	161 586 602	397.00	161 586 612	433.00
¾	161 586 203	411.00	161 586 213	450.00	161 586 603	473.00	161 586 613	512.00
1	161 586 204	473.00	161 586 214	514.00	161 586 604	544.00	161 586 614	585.00
1 ¼	161 586 205	568.00	161 586 215	611.00	161 586 605	653.00	161 586 615	696.00
1 ½	161 586 206	637.00	161 586 216	685.00	161 586 606	733.00	161 586 616	781.00
2	161 586 207	783.00	161 586 217	841.00	161 586 607	901.00	161 586 617	959.00

CPVC

Size [inch]	Socket				Flanged			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
½	163 586 202	548.00	163 586 212	584.00	163 586 602	630.00	163 586 612	666.00
¾	163 586 203	645.00	163 586 213	684.00	163 586 603	741.00	163 586 613	780.00
1	163 586 204	750.00	163 586 214	791.00	163 586 604	862.00	163 586 614	903.00
1 ¼	163 586 205	856.00	163 586 215	899.00	163 586 605	984.00	163 586 615	1,027.00
1 ½	163 586 206	961.00	163 586 216	1,009.00	163 586 606	1,105.00	163 586 616	1,153.00
2	163 586 207	1,169.00	163 586 217	1,227.00	163 586 607	1,344.00	163 586 617	1,402.00

PROGEF® Standard PP

Size [inch]	Socket Fusion Spigot				Socket Fusion Union			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
20	167 586 002	445.00	167 586 012	487.00	167 586 102	525.00	167 586 112	567.00
25	167 586 003	498.00	167 586 013	547.00	167 586 103	605.00	167 586 113	654.00
32	167 586 004	568.00	167 586 014	622.00	167 586 104	710.00	167 586 114	764.00
40	167 586 005	625.00	167 586 015	700.00	167 586 105	781.00	167 586 115	839.00
50	167 586 006	684.00	167 586 016	745.00	167 586 106	855.00	167 586 116	916.00
63	167 586 007	872.00	167 586 017	937.00	167 586 107	1,090.00	167 586 117	1,155.00

Size [inch]	IR/Butt Fusion Union					
	EPDM	USD	FPM	USD		
20	167 586 502	578.00	167 586 512	620.00	 Socket Fusion Spigot	 Socket Fusion Union
25	167 586 503	666.00	167 586 513	715.00		
32	167 586 504	781.00	167 586 514	835.00		
40	167 586 505	859.00	167 586 515	917.00		
50	167 586 506	940.00	167 586 516	1,001.00		
63	167 586 507	1,199.00	167 586 517	1,264.00		

SYGEF® Standard PVDF

Size [inch]	Socket Fusion Spigot		Socket Fusion Union		IR/Butt Fusion Union	
	FPM	USD	FPM	USD	FPM	USD
20	185 586 012	1,038.00	185 586 112	1,298.00	185 586 512	1,428.00
25	185 586 013	1,241.00	185 586 113	1,552.00	185 586 513	1,707.00
32	185 586 014	1,537.00	185 586 114	1,922.00	185 586 514	2,114.00
40	185 586 015	2,306.00	185 586 115	2,882.00	185 586 515	3,171.00
50	185 586 016	2,584.00	185 586 116	3,230.00	185 586 516	3,553.00
63	185 586 017	3,102.00	185 586 117	3,878.00	185 586 517	4,265.00



IR/Butt Fusion Union

Accessories Type 582/586 Pressure Regulating Valve

Pressure Gauge

A

Gauge Guard

A

Discription	Part No.	USD	Discription	Part No.	USD
Brass/EPDM	198 806 651	49.00	PVDF/EPDM	198 806 650	100.00
SS/EPDM	198 806 652	149.00	PVDF/FPM White (HP)	198 806 654	100.00
Brass/FPM	198 806 655	49.00			
SS/FPM White (HP)	198 806 656	149.00			

Hook Wrench

A

d [mm]	Size [inch]	Part No.	USD
16 - 20	3/8 - 1/2	198 806 451	126.00
25 - 32	3/4 - 1	198 806 452	126.00
40 - 63	1 1/4 - 2	198 806 453	274.00

Spare parts Type 582/586 Pressure Regulating Valve

Type 582 Pressure Reducing Valve Cartridge

A

Size [inch]	PVC				CPVC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8 - 1/2	161 489 131	274.00	161 489 231	307.00	163 489 131	411.00	163 489 231	460.00
3/4 - 1	161 489 133	333.00	161 489 233	343.00	163 489 133	499.00	163 489 233	515.00
1 1/4 - 2	161 489 136	431.00	161 489 236	454.00	163 489 136	646.00	163 489 236	680.00
d [mm]	PP				PVDF			
	EPDM	USD	FPM	USD	EPDM	USD		
16 - 20	167 489 131	293.00	167 489 231	322.00	185 489 131	444.00		
25 - 32	167 489 133	316.00	167 489 233	347.00	185 489 133	595.00		
40 - 63	167 489 136	469.00	167 489 236	508.00	185 489 136	928.00		

Type 586 Pressure Retaining Valve Cartridge

A

Size [inch]	PVC				CPVC			
	EPDM	USD	FPM	USD	EPDM	USD	FPM	USD
3/8 - 1/2	161 489 161	233.00	161 489 261	284.00	163 489 161	350.00	163 489 261	425.00
3/4 - 1	161 489 163	257.00	161 489 263	269.00	163 489 163	386.00	163 489 263	403.00
1 1/4 - 2	161 489 166	425.00	161 489 266	462.00	163 489 166	638.00	163 489 266	693.00
d [mm]	PP				PVDF			
	EPDM	USD	FPM	USD	EPDM	USD		
16 - 20	167 489 161	333.00	167 489 261	334.00	185 489 161	523.00		
25 - 32	167 489 163	282.00	167 489 263	296.00	185 489 163	521.00		
40 - 63	167 489 166	511.00	167 489 266	544.00	185 489 166	1,013.00		

Rotameters

Type 336 Rotameter Polyamide

C

Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	50 - 500	0.22 - 2.20	198 336 044	208.00	198 336 055	271.00
1	100 - 1000	0.44 - 4.40	198 336 045	208.00	198 336 056	271.00
1 ½	300 - 3000	1.30 - 13.0	198 336 046	290.00	198 336 057	384.00
1 ½	600 - 6000	2.60 - 26.0	198 336 047	290.00	198 336 058	384.00
2	1000 - 10000	4.40 - 44.0	198 336 048	444.00	198 336 059	595.00
2	1500 - 15000	6.60 - 66.0	198 336 049	444.00	198 336 060	595.00
2 ½	2000 - 20000	8.80 - 88.0	198 336 050	723.00	198 336 061	885.00
2 ½	3000 - 30000	13.2 - 132.0	198 336 051	723.00	198 336 062	1,038.00
Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PVC Socket Ends, FPM Seals, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	50 - 500	0.22 - 2.20	198 336 066	205.00	198 336 077	319.00
1	100 - 1000	0.44 - 4.40	198 336 067	205.00	198 336 078	319.00
1 ½	300 - 3000	1.30 - 13.0	198 336 068	286.00	198 336 079	401.00
1 ½	600 - 6000	2.60 - 26.0	198 336 069	286.00	198 336 080	401.00
2	1000 - 10000	4.40 - 44.0	198 336 070	435.00	198 336 081	615.00
2	1500 - 15000	6.60 - 66.0	198 336 071	435.00	198 336 082	615.00
2 ½	2000 - 20000	8.80 - 88.0	198 336 072	832.00	198 336 083	1,174.00
2 ½	3000 - 30000	13.2 - 132.0	198 336 073	832.00	198 336 084	1,174.00



Type 336 Rotameter Polysulphone

C

Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	50 - 500	0.22 - 2.20	198 336 000	223.00	198 336 011	294.00
1	100 - 1000	0.44 - 4.40	198 336 001	223.00	198 336 012	294.00
1 ½	300 - 3000	1.30 - 13.0	198 336 002	309.00	198 336 013	429.00
1 ½	600 - 6000	2.60 - 26.0	198 336 003	309.00	198 336 014	429.00
2	1000 - 10000	4.40 - 44.0	198 336 004	455.00	198 336 015	717.00
2	1500 - 15000	6.60 - 66.0	198 336 005	455.00	198 336 016	717.00
2 ½	2000 - 20000	8.80 - 88.0	198 336 006	782.00	198 336 017	1,052.00
2 ½	3000 - 30000	13.2 - 132.0	198 336 007	782.00	198 336 018	1,052.00
Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PVC Socket Ends, FPM Seals, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	50 - 500	0.22 - 2.20	198 336 022	228.00	198 336 033	304.00
1	100 - 1000	0.44 - 4.40	198 336 023	228.00	198 336 034	304.00
1 ½	300 - 3000	1.30 - 13.0	198 336 024	305.00	198 336 035	433.00
1 ½	600 - 6000	2.60 - 26.0	198 336 025	332.00	198 336 036	433.00
2	1000 - 10000	4.40 - 44.0	198 336 026	485.00	198 336 037	717.00
2	1500 - 15000	6.60 - 66.0	198 336 027	485.00	198 336 038	717.00
2 ½	2000 - 20000	8.80 - 88.0	198 336 028	768.00	198 336 039	1,223.00
2 ½	3000 - 30000	13.2 - 132.0	198 336 029	802.00	198 336 040	1,223.00



Rotameters

Type 807 Short Rotameters

C

Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PSU/PVC Socket Ends, EPDM Seal, Short Tube			
			Standard Float	USD	Magnetic Float	USD
3/8	2.5 - 25	0.01 - 0.11	198 807 550	139.00	198 807 576	188.00
3/8	5 - 50	0.02 - 0.22	198 807 551	139.00	198 807 577	188.00
3/8	10 - 100	0.04 - 0.44	198 807 552	139.00	198 807 578	188.00
1/2	8 - 80	0.03 - 0.33	198 807 553	143.00	198 807 579	206.00
1/2	15 - 150	0.06 - 0.66	198 807 554	143.00	198 807 580	206.00
1/2	20 - 200	0.08 - 0.88	198 807 555	143.00	198 807 581	206.00
1	15 - 150	0.06 - 0.66	198 807 556	166.00	198 807 582	267.00
1	30 - 300	0.13 - 1.32	198 807 557	166.00	198 807 583	267.00
1	50 - 500	0.22 - 2.20	198 807 558	166.00	198 807 584	267.00
1	100 - 1000	0.44 - 4.40	198 807 559	166.00	198 807 585	267.00

Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	PA/PVC Socket Ends, EPDM Seal, Short Tube			
			Standard Float	USD	Magnetic Float	USD
3/8	2.5 - 25	0.01 - 0.11	198 807 602	150.00	198 807 612	190.00
3/8	5 - 50	0.02 - 0.22	198 807 603	150.00	198 807 613	190.00
3/8	10 - 100	0.04 - 0.44	198 807 604	150.00	198 807 614	190.00
1/2	8 - 80	0.03 - 0.33	198 807 605	159.00	198 807 615	214.00
1/2	15 - 150	0.06 - 0.66	198 807 606	159.00	198 807 616	214.00
1/2	20 - 200	0.08 - 0.88	198 807 607	159.00	198 807 617	214.00
1	15 - 150	0.06 - 0.66	198 807 608	182.00	198 807 618	274.00
1	30 - 300	0.13 - 1.32	198 807 609	182.00	198 807 619	274.00
1	50 - 500	0.22 - 2.20	198 807 610	182.00	198 807 620	274.00
1	100 - 1000	0.44 - 4.40	198 807 611	182.00	198 807 621	274.00



Type 807 Polysulphone PVDF-HP UPW Rotameter

C

d [mm]	Flow Range [l/h]	Scale Range [gal/min]	IR/Butt Fusion FPM	USD
32	68 - 204	0.3 - 0.9	198 807 209	424.00
32	90 - 295	0.4 - 1.3	198 807 210	424.00
32	136 - 795	0.6 - 3.5	198 807 202	424.00
50	568 - 2273	2.5 - 10.0	198 807 203	709.00
50	909 - 4091	4.0 - 18.0	198 807 204	709.00
63	1000 - 8142	4.4 - 36.0	198 807 205	952.00
63	1000 - 9091	4.4 - 40.0	198 807 206	952.00
75	1848 - 11364	8.0 - 50.0	198 807 207	1,497.00
75	2273 - 16364	10.0 - 72.0	198 807 208	1,497.00



Rotameter Assembly Seal Adders

Seal List Adder

C

As not all material combinations are available as complete rotameter assemblies, one can configure other combinations using the listed assembly adders. Simply sum the adder with the desired tube list price and include the adder code (A, B C etc.) to the tube part number when ordering. With the end connector adder code first.

Size [inch]	FPM (B)
½	6.00
1	6.00
1 ½	16.00
2	20.00
2 ½	28.00

Example: Choose tube (198.335.828), End connectors (D), Seal (B)

Becomes: 198.335.828DB: Total List = Tube list + (D) list + (B) list

No assembly adder for EPDM

End Connector List Adders

C

Size [inch]	PVC		CPVC	
	(A) Threaded NPT	(B) Flanged	(I) Threaded NPT	(J) Flanged
½	14.00	22.00	19.00	28.00
1	26.00	28.00	34.00	36.00
1 ½	41.00	44.00	54.00	58.00
2	47.00	55.00	64.00	71.00
2 ½	-	250.00	-	329.00

d [mm]	PP				PVDF			
	(C) Socket Fusion	(K) IR/Butt Fusion	(D) Threaded NPT	(E) Flanged	(F) Socket Fusion	(L) IR/Butt Fusion	(G) Threaded NPT	(H) Flanged
20	23.00	30.00	59.00	55.00	45.00	59.00	76.00	89.00
32	69.00	90.00	69.00	89.00	71.00	93.00	126.00	137.00
50	58.00	75.00	96.00	136.00	126.00	164.00	209.00	224.00
63	84.00	110.00	126.00	184.00	184.00	240.00	281.00	310.00
75	407.00	-	-	524.00	437.00	-	-	372.00

Rotameter Accessories

Position Sensor

C

Size [inch]	Flow Range [l/h]	Flow Range [gal/min]	Part No.	USD
1	50 - 500	0.22 - 2.20	198 335 962	591.00
1	100 - 1000	0.44 - 4.40	198 335 963	591.00
1 ½	200 - 2000	0.88 - 8.8	198 335 966	591.00
1 ½	300 - 3000	1.32 - 13.2	198 335 967	591.00
1 ½	600 - 6000	2.60 - 26.0	198 335 968	591.00
2	600 - 6000	2.60 - 26.0	198 335 969	591.00
2	1000 - 10000	4.40 - 44.0	198 335 991	591.00
2	1500 - 15000	6.60 - 66.0	198 335 992	591.00
2 ½	2000 - 20000	8.80 - 88.0	198 335 993	591.00
2 ½	3000 - 30000	13.2 - 132.0	198 335 994	591.00
2 ½	8000 - 60000	35.0 - 264.0	198 335 995	591.00



Limit Switch

C

Type	4 - 20 mA	USD
Min	198 335 960	96.00
Max	198 335 961	96.00



Rotameter Scales

Type 336 Rotameter Scale GPM

C

Size [inch]	Tube Range [l/h]	Scale Range [gal/min]	Part No.	USD
1	50 - 500	0.22 - 2.20	198 335 685	20.00
1	100 - 1000	0.44 - 4.40	198 335 686	20.00
1 ½	200 - 2000	0.88 - 8.8	198 335 689	20.00
1 ½	300 - 3000	1.32 - 13.2	198 335 690	20.00
1 ½	600 - 6000	2.64 - 26.4	198 335 691	20.00
2	600 - 6000	2.64 - 26.4	198 335 692	20.00
2	1000 - 10000	4.4 - 44.0	198 335 693	20.00
2	1500 - 15000	6.60 - 66.0	198 335 694	20.00
2 ½	2000 - 20000	8.80 - 88.0	198 335 695	20.00
2 ½	3000 - 30000	13.2 - 132.0	198 335 696	20.00
2 ½	8000 - 60000	35.2 - 264	198 335 697	20.00

Type 336 Rotameter Scale GPM and l/h

C

Size [inch]	Scale Range		Part No.	USD
	[l/h]	[gal/min]		
1	50 - 500	0.22 - 2.20	198 335 685	20.00
1	100 - 1000	0.44 - 4.40	198 335 686	20.00
1 ½	300 - 3000	1.30 - 13.0	198 335 690	20.00
1 ½	500 - 5000	2.60 - 26.0	198 335 691	20.00
2	1000 - 10000	4.40 - 44.0	198 335 693	20.00
2	1500 - 15000	6.60 - 66.0	198 335 694	20.00
2 ½	2000 - 20000	8.80 - 88.0	198 335 695	20.00
2 ½	3000 - 30000	13.2 - 132.0	198 335 696	20.00

Type 336 Rotameter Scale l/h

C

Size [inch]	Tube Range [l/h]	Scale Range [l/h]	Part No.	USD
1	50 - 500	50 - 500	198 335 861	20.00
1	100 - 1000	100 - 1000	198 335 862	20.00
1 ½	200 - 2000	200 - 2000	198 335 865	20.00
1 ½	300 - 3000	300 - 3000	198 335 866	20.00
1 ½	500 - 5000	500 - 5000	198 335 867	20.00
2	1000 - 10000	1000 - 10000	198 335 869	20.00
2	1500 - 15000	1500 - 15000	198 335 870	20.00
2 ½	2000 - 20000	2000 - 20000	198 335 871	20.00
2 ½	3000 - 30000	3000 - 30000	198 335 872	20.00
2 ½	6000-60000	6000-60000	198 335 873	20.00

Rotameter Scales

Type 336 Rotameter Scale NaOH 30% C

Size [inch]	Tube Range [l/h]	Scale Range [gal/min]	Part No.	USD
1	50 - 500	0.066 - 1.05	198 801 477	27.00
1	100 - 1000	0.22 - 2.65	198 801 478	27.00
1 ½	300 - 3000	0.88 - 8.8	198 801 479	27.00
1 ½	500 - 5000	2.2 - 19.82	198 801 480	27.00
2	1000 - 10000	2.2 - 33.0	198 801 481	27.00
2	1500 - 15000	3.52 - 48.0	198 801 482	27.00
2 ½	2000 - 20000	6.16 - 66.0	198 801 483	27.00
2 ½	3000 - 30000	8.8 - 88.0	198 801 484	27.00

NaOH 30% scales also available in l/h

Type 336 Rotameter Scale NaOH 50% C

Size [inch]	Tube Range [l/h]	Scale Range [gal/min]	Part No.	USD
1	50 - 500	0.066 - 1.05	198 801 485	27.00
1	100 - 1000	0.22 - 2.65	198 801 486	27.00
1 ½	300 - 3000	0.88 - 8.8	198 801 487	27.00
1 ½	500 - 5000	2.2 - 19.82	198 801 488	27.00
2	1000 - 10000	2.2 - 33.0	198 801 489	27.00
2	1500 - 15000	3.52 - 48.0	198 801 490	27.00
2 ½	2000 - 20000	6.16 - 66.0	198 801 491	27.00
2 ½	3000 - 30000	8.8 - 88.0	198 801 492	27.00

NaOH 50% scales also available in l/h

Type 336 Rotameter Scale HCl 30-33% C

Size [inch]	Tube Range [l/h]	Scale Range [gal/min]	Part No.	USD
1	50 - 500	0.066 - 1.05	198 801 469	27.00
1	100 - 1000	0.22 - 2.65	198 801 470	27.00
1 ½	300 - 3000	0.88 - 8.8	198 801 471	27.00
1 ½	500 - 5000	2.2 - 19.82	198 801 472	27.00
2	1000 - 10000	2.2 - 33.0	198 801 473	27.00
2	1500 - 15000	3.52 - 48.0	198 801 474	27.00
2 ½	2000 - 20000	6.16 - 66.0	198 801 475	27.00
2 ½	3000 - 30000	8.8 - 88.0	198 801 476	27.00

Type 336 Rotameter Scale HCl 30% C

Size [inch]	Tube Range [l/h]	Scale Range [gal/min]	Part No.	USD
1	50 - 500	0.066 - 1.05	198 801 290	27.00
1	100 - 1000	0.22 - 2.65	198 801 291	27.00
1 ½	300 - 3000	0.88 - 8.8	198 801 292	27.00
1 ½	500 - 5000	2.2 - 19.82	198 801 293	27.00
2	1000 - 10000	2.2 - 33.0	198 801 294	27.00
2	1500 - 15000	3.52 - 48.0	198 801 295	27.00
2 ½	2000 - 20000	6.16 - 66.0	198 801 324	27.00
2 ½	3000 - 30000	8.8 - 88.0	198 801 325	27.00

Rotameter Scales

Type 807 Short Tube Scale GPM

C

Size [inch]	Flow Range [l/h]	Scale Range [gal/min]	Part No.	USD
3/8	2.5 - 25	0.01 - 0.11	198 801 961	20.00
3/8	5 - 50	0.02 - 0.22	198 801 962	20.00
3/8	10 - 100	0.04 - 0.44	198 801 963	20.00
1/2	8 - 80	0.03 - 0.33	198 801 964	20.00
1/2	15 - 150	0.06 - 0.66	198 801 965	20.00
1/2	20 - 200	0.08 - 0.88	198 801 966	20.00
1	15 - 150	0.06 - 0.66	198 801 967	20.00
1	30 - 300	0.13 - 1.32	198 801 968	20.00
1	50 - 500	0.22 - 2.20	198 801 969	20.00
1	100 - 1000	0.44 - 4.40	198 801 970	20.00

Type 807 Short Tube Scale l/h

C

Size [inch]	Flow Range [l/h]	Scale Range [l/h]	Part No.	USD
3/8	2.5 - 25	2.5 - 25	198 801 386	20.00
3/8	5 - 50	5 - 50	198 801 387	20.00
3/8	10 - 100	10 - 100	198 801 388	20.00
1/2	8 - 80	8 - 80	198 801 389	20.00
1/2	15 - 150	15 - 150	198 801 390	20.00
1/2	20 - 200	20 - 200	198 801 391	20.00
1	15 - 150	15 - 150	198 801 392	20.00
1	30 - 300	30 - 300	198 801 393	20.00
1	50 - 500	50 - 500	198 801 394	20.00
1	100 - 1000	100 - 1000	198 801 395	20.00

Rotameter Spare Parts

Type 336 Polysulphone Tube Set with Standard Tube

C

Size [inch]	Flow Range [gal/min]	Standard Float	USD	Magnetic Float	USD
1	0.22 - 2.20	198 335 840	182.00	198 335 940	256.00
1	0.44 - 4.40	198 335 841	182.00	198 335 941	256.00
1 ½	1.30 - 13.0	198 335 845	249.00	198 335 945	373.00
1 ½	2.60 - 26.0	198 335 846	249.00	198 335 946	373.00
2	4.40 - 44.0	198 335 848	395.00	198 335 948	646.00
2	6.60 - 66.0	198 335 849	395.00	198 335 949	646.00
2 ½	8.80 - 88.0	198 335 850	495.00	198 335 950	770.00
2 ½	13.2 - 132.0	198 335 851	495.00	198 335 951	770.00

Type 336 Polyamide Tube Set with Standard Tube

C

Size [inch]	Flow Range [gal/min]	Standard Float	USD	Magnetic Float	USD
1	0.22 - 2.20	198 335 820	166.00	198 335 920	240.00
1	0.44 - 4.40	198 335 821	169.00	198 335 921	240.00
1 ½	1.30 - 13.0	198 335 825	228.00	198 335 925	340.00
1 ½	2.60 - 26.0	198 335 826	228.00	198 335 926	340.00
2	4.40 - 44.0	198 335 828	360.00	198 335 928	540.00
2	6.60 - 66.0	198 335 829	360.00	198 335 929	540.00
2 ½	8.80 - 88.0	198 335 830	435.00	198 335 930	631.00
2 ½	13.2 - 132.0	198 335 831	435.00	198 335 931	783.00

Type 807 Polysulphone Short Tube Set

C

Size [inch]	Flow Range [gal/min]	Standard Float	USD	Magnetic Float	USD
¾	0.01 - 0.11	198 806 100	110.00	198 806 110	164.00
¾	0.02 - 0.22	198 806 101	110.00	198 806 111	164.00
¾	0.04 - 0.44	198 806 102	110.00	198 806 112	164.00
½	0.03 - 0.33	198 806 103	113.00	198 806 113	180.00
½	0.06 - 0.66	198 806 104	113.00	198 806 114	180.00
½	0.08 - 0.88	198 806 105	113.00	198 806 115	180.00
1	0.06 - 0.66	198 806 106	128.00	198 806 116	229.00
1	0.13 - 1.32	198 806 107	128.00	198 806 117	229.00
1	0.22 - 2.20	198 806 108	128.00	198 806 118	229.00
1	0.44 - 4.40	198 806 109	128.00	198 806 119	229.00

Type 807 Polysulphone UPW Tube Only

C

d [mm]	Flow Range [gal/min]	PTFE Float not included - FPM Seal	
		Part No.	USD
32	0.6 - 3.5	700 251 574	105.00
50	2.5 - 10.0	700 251 575	151.00
50	4.0 - 18.0	700 251 576	151.00
63	4.4 - 36.0	700 251 577	211.00
63	4.4 - 40.0	700 251 578	211.00
75	8.0 - 50.0	700 251 579	373.00
75	10.0 - 72.0	700 251 580	373.00

Rotameter Spare Parts

Standard Float PVDF

B

d [mm]	Size [inch]	Scale Range [l/h]	Without Magnet	USD	With Magnet	USD
32	1	50 - 500	198 335 455	99.00	198 335 470	130.00
32	1	100 - 1000	198 335 455	99.00	198 335 470	130.00
50	1 ½	300 - 3000	198 335 457	110.00	198 335 471	138.00
50	1 ½	600 - 6000	198 335 457	110.00	198 335 471	138.00
63	2	1000 - 10000	198 335 457	110.00	198 335 471	138.00
63	2	1500 - 15000	198 335 458	130.00	198 335 472	160.00
75	2 ½	2000 - 20000	198 335 459	149.00	198 335 473	188.00
75	2 ½	3000 - 30000	198 335 459	149.00	198 335 473	188.00

Short Float PVDF

B

d [mm]	Without Magnet		With Magnet	
	Part No.	USD	Part No.	USD
16	198 806 219	72.00	198 806 222	126.00
20	198 806 220	77.00	198 806 223	139.00
32	198 806 221	91.00	198 806 224	168.00

Guide Rod

B

d - Size [mm]-[inch]	PEEK	USD	Stainless Steel	USD	PVDF	USD
75 - 2 ½	198 335 985	77.00	198 335 098	63.00	198 335 984	126.00

Guide Rod Insert

B

d - Size [mm]-[inch]	PVDF	USD
63 - 2	198 335 986	46.00
75 - 2 ½	198 335 987	43.00

Flow Value Indicator

B

Size [inch]	Flow Value Indicator	USD
1 - 2 ½	198 335 990	2.00

Top Insert

B

Size [inch]	SK	PVDF	USD
1	10 - 11	198 335 970	25.00
1 ½	20 - 21	198 335 972	31.00
2	30	198 335 973	46.00
2	31	198 335 974	46.00
2 ½	40 - 41	198 335 975	56.00

Bottom Insert

B

Size [inch]	SK	PVDF	USD
1	10 - 11	198 335 977	25.00
1 ½	20 - 21	198 335 979	31.00
2	30	198 335 980	46.00
2	31	198 335 982	50.00

Rotameter Spare Parts



PVC Socket/Threaded NPT



PP Socket Fusion



PP IR/Butt Fusion



PVDF IR/Butt Fusion

Union End

B

Size [inch]	PVC Socket		PVC Threaded NPT		PP Threaded NPT		PVDF Threaded NPT	
	Part No.	USD	Part No.	USD	Part No.	USD	Part No.	USD
3/8	721 602 005	1.00	-	-	-	-	-	-
1/2	721 602 006	2.00	721 602 656	5.00	198 203 603	22.00	155 203 611	29.00
1	721 602 008	2.00	721 602 658	7.00	198 203 604	25.00	155 203 612	47.00
1 1/2	721 602 010	4.00	721 602 660	19.00	198 203 606	28.00	155 203 614	68.00
2	721 602 011	6.00	-	-	198 203 607	32.00	155 203 615	84.00
2 1/2	700 259 430	30.00	721 602 661	19.00	-	-	-	-
Size [inch]	CPVC Socket							
	Part No.	USD						
3/8	723 602 006	3.00						
1/2	723 602 007	3.00						
1	723 602 008	4.00						
1 1/2	723 602 009	4.00						
2	723 602 010	7.00						
2 1/2	723 602 011	10.00						
d [mm]	PVC Socket Metric		PP Socket Fusion		PVDF Socket Fusion			
	Part No.	USD	Part No.	USD	Part No.	USD		
16	721 500 105	1.00	727 500 105	3.00	735 500 105	15.00		
20	721 500 106	1.00	727 500 106	4.00	735 500 106	15.00		
32	721 500 108	2.00	727 500 108	5.00	735 500 108	20.00		
50	721 500 110	4.00	727 500 110	7.00	735 500 110	33.00		
63	721 500 111	6.00	727 500 111	8.00	735 500 111	45.00		
75	721 500 112	16.00	727 500 112	40.00	735 500 112	47.00		
d [mm]	PP IR/Butt Fusion		PPn IR/Butt Fusion		PVDF IR/Butt Fusion			
	Part No.	USD	Part No.	USD	Part No.	USD		
20	727 508 506	8.00	728 608 506	12.00	735 608 606	18.00		
32	727 508 508	12.00	728 608 508	15.00	735 608 608	28.00		
50	727 508 510	21.00	728 608 510	23.00	735 608 610	38.00		
63	727 508 511	23.00	728 608 511	33.00	735 608 611	54.00		

Rotameter Spare Parts



PVC



CPVC



PP



PVDF

Union Nut

B

d - Size [mm]-[inch]	PVC	USD	CPVC	USD	PP	USD	PVDF	USD
16 - 3/8	721 890 005	2.00	-	-	727 890 405	16.00	735 690 405	23.00
20 - 1/2	721 890 006	3.00	723 690 006	5.00	727 890 406	18.00	735 690 406	25.00
25 - 3/4	-	-	723 690 007	5.00	-	-	-	-
32 - 1	721 890 008	4.00	723 690 008	7.00	727 890 408	22.00	735 690 408	41.00
40 - 1 1/4	-	-	723 690 009	7.00	-	-	-	-
50 - 1 1/2	721 890 010	7.00	723 690 010	10.00	727 890 410	45.00	735 690 410	86.00
63 - 2	721 890 011	10.00	723 690 011	15.00	727 890 411	71.00	735 690 411	135.00
75 - 2 1/2	198 806 423	89.00	-	-	198 806 421	201.00	198 806 422	214.00



EPDM



FPM White

O-Rings

B

d - Size [mm]-[inch]	EPDM	USD	FPM	USD	FPM White	USD
16 - 3/8	748 410 005	2.00	749 410 005	3.00	749 411 005	8.00
20 - 1/2	748 410 006	3.00	749 410 006	5.00	749 411 006	13.00
32 - 1	748 410 008	5.00	749 410 008	7.00	749 411 120	18.00
50 - 1 1/2	748 410 010	5.00	749 410 010	16.00	749 411 062	19.00
63 - 2	748 410 011	7.00	749 410 011	17.00	749 411 172	20.00
75 - 2 1/2	748 410 014	11.00	749 410 014	26.00	749 411 054	22.00

Part Number	Page	List Price
3407	49	\$230.00
3607	49	\$382.00
3807	49	\$561.00
31007	49	\$1,020.00
31207	49	\$1,531.00
150 101 020	59	\$12.00
150 101 037	91	\$8.00
150 101 038	91	\$5.00
150 101 062	59	\$12.00
150 101 065	90	\$16.00
150 101 066	90	\$12.00
150 101 609	25	\$41.00
150 101 610	25	\$41.00
150 101 617	25	\$45.00
150 101 626	25	\$196.00
150 104 203	56	\$267.00
150 104 204	56	\$270.00
150 104 205	56	\$273.00
150 104 206	56	\$283.00
150 104 207	56	\$286.00
150 104 208	56	\$300.00
150 104 213	56	\$270.00
150 104 214	56	\$273.00
150 104 215	56	\$278.00
150 104 216	56	\$287.00
150 104 217	56	\$297.00
150 104 218	56	\$313.00
150 104 223	56	\$267.00
150 104 224	56	\$270.00
150 104 225	56	\$273.00
150 104 226	56	\$283.00
150 104 227	56	\$286.00
150 104 228	56	\$300.00
150 104 233	56	\$270.00
150 104 234	56	\$273.00
150 104 235	56	\$278.00
150 104 236	56	\$287.00
150 104 237	56	\$297.00
150 104 238	56	\$313.00
150 104 303	56	\$275.00
150 104 304	56	\$279.00
150 104 305	56	\$288.00
150 104 306	56	\$300.00
150 104 307	56	\$309.00
150 104 308	56	\$322.00
150 104 313	56	\$278.00
150 104 314	56	\$286.00
150 104 315	56	\$294.00
150 104 316	56	\$307.00
150 104 317	56	\$319.00
150 104 318	56	\$343.00

Part Number	Page	List Price
150 104 323	56	\$275.00
150 104 324	56	\$279.00
150 104 325	56	\$288.00
150 104 326	56	\$300.00
150 104 327	56	\$309.00
150 104 328	56	\$322.00
150 104 333	56	\$278.00
150 104 334	56	\$286.00
150 104 335	56	\$294.00
150 104 336	56	\$307.00
150 104 337	56	\$319.00
150 104 338	56	\$343.00
150 104 403	56	\$267.00
150 104 404	56	\$270.00
150 104 405	56	\$273.00
150 104 406	56	\$283.00
150 104 407	56	\$286.00
150 104 408	56	\$300.00
150 104 413	56	\$270.00
150 104 414	56	\$273.00
150 104 415	56	\$278.00
150 104 416	56	\$287.00
150 104 417	56	\$297.00
150 104 418	56	\$313.00
150 104 503	56	\$275.00
150 104 504	56	\$279.00
150 104 505	56	\$288.00
150 104 506	56	\$300.00
150 104 507	56	\$309.00
150 104 508	56	\$322.00
150 104 513	56	\$278.00
150 104 514	56	\$286.00
150 104 515	56	\$294.00
150 104 516	56	\$307.00
150 104 517	56	\$319.00
150 104 518	56	\$343.00
150 125 382	63	\$607.00
150 125 383	63	\$607.00
150 125 384	63	\$619.00
150 125 385	63	\$633.00
150 125 386	63	\$639.00
150 125 387	63	\$709.00
150 125 388	63	\$780.00
150 125 392	63	\$614.00
150 125 393	63	\$614.00
150 125 394	63	\$632.00
150 125 395	63	\$649.00
150 125 396	63	\$736.00
150 125 397	63	\$759.00
150 125 398	63	\$828.00
150 125 422	63	\$607.00

Part Number	Page	List Price
150 125 423	63	\$607.00
150 125 424	63	\$619.00
150 125 425	63	\$633.00
150 125 426	63	\$639.00
150 125 427	63	\$709.00
150 125 428	63	\$780.00
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150 125 433	63	\$614.00
150 125 434	63	\$632.00
150 125 435	63	\$649.00
150 125 436	63	\$736.00
150 125 437	63	\$759.00
150 125 438	63	\$828.00
150 128 000	60	\$662.00
150 128 001	60	\$662.00
150 128 002	60	\$676.00
150 128 003	60	\$691.00
150 128 004	60	\$696.00
150 128 005	60	\$769.00
150 128 006	60	\$845.00
150 128 007	60	\$671.00
150 128 008	60	\$671.00
150 128 009	60	\$690.00
150 128 010	60	\$708.00
150 128 011	60	\$799.00
150 128 012	60	\$823.00
150 128 013	60	\$895.00
150 128 572	60	\$607.00
150 128 573	60	\$607.00
150 128 574	60	\$619.00
150 128 575	60	\$633.00
150 128 576	60	\$639.00
150 128 577	60	\$709.00
150 128 578	60	\$780.00
150 128 582	60	\$614.00
150 128 583	60	\$614.00
150 128 584	60	\$632.00
150 128 585	60	\$649.00
150 128 586	60	\$736.00
150 128 587	60	\$759.00
150 128 588	60	\$828.00
150 300 050	59	\$28.00
150 300 102	59	\$416.00
150 300 103	59	\$517.00
150 300 104	59	\$485.00
150 319 100	6	\$134.00
150 319 101	6	\$136.00
150 319 102	6	\$146.00
150 319 103	6	\$136.00
150 319 104	6	\$146.00
150 319 105	6	\$173.00

Part Number	Page	List Price
150 319 106	6	\$179.00
150 319 107	6	\$185.00
150 319 108	6	\$230.00
150 319 109	6	\$178.00
150 319 110	6	\$193.00
150 319 111	6	\$219.00
150 319 112	6	\$239.00
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150 319 114	6	\$249.00
150 319 115	6	\$272.00
150 319 116	6	\$321.00
150 319 117	6	\$474.00
150 319 119	6	\$141.00
150 319 120	6	\$184.00
150 319 121	6	\$211.00
150 319 122	6	\$116.00
150 319 123	6	\$321.00
150 319 125	6	\$592.00
150 319 126	6	\$756.00
150 319 127	6	\$970.00
150 319 128	6	\$699.00
150 319 129	6	\$811.00
150 319 130	6	\$1,296.00
150 319 131	6	\$155.00
150 319 132	6	\$139.00
150 563 002	107	\$411.00
150 563 003	107	\$419.00
150 563 004	107	\$426.00
150 563 005	107	\$530.00
150 563 006	107	\$694.00
150 563 007	107	\$731.00
150 563 008	107	\$1,016.00
150 563 012	107	\$411.00
150 563 013	107	\$419.00
150 563 014	107	\$426.00
150 563 015	107	\$530.00
150 563 016	107	\$702.00
150 563 017	107	\$731.00
150 563 018	107	\$1,016.00
150 563 022	107	\$382.00
150 563 023	107	\$389.00
150 563 024	107	\$398.00
150 563 032	107	\$467.00
150 563 033	107	\$474.00
150 563 034	107	\$579.00
150 563 035	107	\$583.00
150 563 036	107	\$792.00
150 563 037	107	\$854.00
150 563 038	107	\$1,183.00
150 563 039	107	\$2,303.00
150 563 040	107	\$3,247.00

Part Number	Page	List Price
150 563 042	107	\$467.00
150 563 043	107	\$474.00
150 563 044	107	\$527.00
150 563 045	107	\$583.00
150 563 046	107	\$792.00
150 563 047	107	\$854.00
150 563 048	107	\$1,183.00
150 563 049	107	\$2,609.00
150 563 050	107	\$3,168.00
150 563 052	107	\$380.00
150 563 053	107	\$386.00
150 563 054	107	\$410.00
150 563 055	107	\$454.00
150 563 056	107	\$574.00
150 563 057	107	\$619.00
150 563 058	107	\$805.00
150 563 059	107	\$1,603.00
150 563 060	107	\$2,314.00
150 563 070	75	\$684.00
150 563 071	75	\$713.00
150 563 072	75	\$720.00
150 563 078	75	\$2,612.00
150 563 080	75	\$998.00
150 563 081	75	\$1,005.00
150 563 082	75	\$1,014.00
150 563 083	75	\$1,019.00
150 563 084	75	\$1,079.00
150 563 085	75	\$1,079.00
150 563 086	75	\$1,536.00
150 563 087	75	\$2,138.00
150 567 001	110	\$592.00
150 567 002	110	\$592.00
150 567 003	110	\$592.00
150 567 004	110	\$592.00
150 567 005	110	\$592.00
150 900 113	49	\$166.00
150 900 116	49	\$215.00
150 900 117	49	\$215.00
150 900 454	26	\$162.00
150 900 456	26	\$162.00
150 900 457	26	\$102.00
150 900 459	26	\$102.00
150 985 003	107	\$363.00
150 985 004	107	\$369.00
150 985 005	107	\$479.00
150 985 006	107	\$538.00
150 985 007	107	\$645.00
150 985 008	107	\$818.00
150 985 013	107	\$363.00
150 985 014	107	\$369.00
150 985 015	107	\$479.00

Part Number	Page	List Price
150 985 016	107	\$538.00
150 985 017	107	\$645.00
150 985 018	107	\$818.00
150 985 023	107	\$333.00
150 985 024	107	\$340.00
150 985 033	107	\$419.00
150 985 034	107	\$520.00
150 985 035	107	\$527.00
150 985 036	107	\$626.00
150 985 037	107	\$766.00
150 985 038	107	\$960.00
150 985 043	107	\$419.00
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150 985 046	107	\$626.00
150 985 047	107	\$766.00
150 985 048	107	\$960.00
150 985 053	107	\$331.00
150 985 054	107	\$353.00
150 985 055	107	\$399.00
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150 985 058	107	\$582.00
150 985 071	75	\$655.00
150 985 072	75	\$664.00
150 985 081	75	\$948.00
150 985 082	75	\$957.00
150 985 083	75	\$963.00
150 985 084	75	\$973.00
150 985 085	75	\$992.00
150 985 086	75	\$1,312.00
151 375 002	11	\$78.00
151 375 003	11	\$85.00
151 375 004	11	\$94.00
151 375 005	11	\$111.00
151 375 006	11	\$126.00
151 375 007	11	\$166.00
151 375 008	11	\$318.00
151 375 009	11	\$395.00
151 375 010	11	\$580.00
151 375 017	11	\$87.00
151 375 018	11	\$94.00
151 375 019	11	\$111.00
151 375 020	11	\$133.00
151 375 021	11	\$159.00
151 375 022	11	\$208.00
151 375 023	11	\$395.00
151 375 024	11	\$484.00
151 375 025	11	\$677.00
151 546 341	1	\$90.00
151 546 342	1	\$92.00

Part Number	Page	List Price
151 546 343	1	\$105.00
151 546 344	1	\$118.00
151 546 345	1	\$141.00
151 546 346	1	\$172.00
151 546 347	1	\$209.00
151 546 348	1	\$455.00
151 546 349	1	\$538.00
151 546 350	1	\$701.00
151 546 351	1	\$105.00
151 546 352	1	\$106.00
151 546 353	1	\$116.00
151 546 354	1	\$137.00
151 546 355	1	\$163.00
151 546 356	1	\$198.00
151 546 357	1	\$255.00
151 546 358	1	\$536.00
151 546 359	1	\$647.00
151 546 360	1	\$850.00
153 319 100	6	\$206.00
153 319 101	6	\$221.00
153 319 102	6	\$255.00
153 319 103	6	\$231.00
153 319 104	6	\$264.00
153 319 105	6	\$284.00
153 319 106	6	\$262.00
153 319 107	6	\$321.00
153 319 108	6	\$379.00
153 319 109	6	\$357.00
153 319 110	6	\$391.00
153 319 111	6	\$445.00
153 319 112	6	\$488.00
153 319 113	6	\$480.00
153 319 114	6	\$536.00
153 319 115	6	\$638.00
153 319 116	6	\$810.00
153 319 117	6	\$810.00
153 319 123	6	\$1,095.00
153 319 124	6	\$878.00
153 319 125	6	\$878.00
153 319 126	6	\$1,311.00
153 319 127	6	\$1,311.00
153 319 128	6	\$1,095.00
153 375 002	11	\$81.00
153 375 003	11	\$105.00
153 375 004	11	\$117.00
153 375 005	11	\$144.00
153 375 006	11	\$176.00
153 375 007	11	\$246.00
153 375 017	11	\$104.00
153 375 018	11	\$122.00
153 375 019	11	\$142.00

Part Number	Page	List Price
153 375 020	11	\$198.00
153 375 021	11	\$212.00
153 375 022	11	\$298.00
153 546 341	2	\$131.00
153 546 342	2	\$134.00
153 546 343	2	\$150.00
153 546 344	2	\$176.00
153 546 345	2	\$212.00
153 546 346	2	\$247.00
153 546 347	2	\$299.00
153 546 348	2	\$713.00
153 546 349	2	\$879.00
153 546 350	2	\$1,051.00
153 546 351	2	\$140.00
153 546 352	2	\$142.00
153 546 353	2	\$167.00
153 546 354	2	\$200.00
153 546 355	2	\$243.00
153 546 356	2	\$286.00
153 546 357	2	\$368.00
153 546 358	2	\$819.00
153 546 359	2	\$1,012.00
153 546 360	2	\$1,213.00
155 203 611	38	\$29.00
155 203 612	38	\$47.00
155 203 614	38	\$68.00
155 203 615	38	\$84.00
155 522 120	49	\$166.00
155 522 122	49	\$215.00
155 522 554	49	\$127.00
155 522 555	49	\$127.00
155 522 556	49	\$127.00
155 522 579	49	\$114.00
155 522 581	49	\$114.00
157 319 106	6	\$336.00
157 319 107	6	\$336.00
157 319 110	6	\$372.00
157 319 113	6	\$392.00
157 319 120	6	\$372.00
157 319 121	6	\$392.00
157 319 123	6	\$522.00
157 319 124	6	\$584.00
157 319 206	6	\$346.00
157 319 207	6	\$346.00
157 319 210	6	\$383.00
157 319 213	6	\$405.00
157 319 220	6	\$383.00
157 319 221	6	\$405.00
157 319 223	6	\$543.00
157 319 224	6	\$605.00
157 522 556	49	\$111.00

Part Number	Page	List Price
157 546 442	3	\$138.00
157 546 443	3	\$160.00
157 546 444	3	\$172.00
157 546 445	3	\$188.00
157 546 446	3	\$227.00
157 546 447	3	\$276.00
157 546 452	3	\$148.00
157 546 453	3	\$164.00
157 546 454	3	\$189.00
157 546 455	3	\$227.00
157 546 456	3	\$284.00
157 546 457	3	\$339.00
160 365 318	27	\$1,688.00
160 365 320	27	\$1,970.00
160 365 321	27	\$2,082.00
160 365 323	27	\$2,983.00
160 365 500	27	\$2,117.00
160 365 501	27	\$2,238.00
160 365 503	27	\$3,208.00
160 365 504	27	\$4,671.00
160 365 505	27	\$6,359.00
160 365 506	27	\$7,879.00
161 050 053	48	\$137.00
161 050 186	48	\$44.00
161 050 187	48	\$46.00
161 050 188	48	\$58.00
161 050 189	48	\$68.00
161 050 190	48	\$102.00
161 050 191	48	\$118.00
161 305 336	51	\$5.00
161 305 337	51	\$5.00
161 305 338	51	\$5.00
161 305 339	51	\$5.00
161 305 386	51	\$5.00
161 305 387	51	\$5.00
161 305 388	51	\$6.00
161 305 389	51	\$6.00
161 305 436	51	\$6.00
161 305 437	51	\$6.00
161 305 438	51	\$6.00
161 305 439	51	\$7.00
161 305 486	51	\$7.00
161 305 487	51	\$7.00
161 305 488	51	\$8.00
161 305 489	51	\$8.00
161 305 536	51	\$9.00
161 305 537	51	\$8.00
161 305 538	51	\$9.00
161 305 539	51	\$9.00
161 305 586	51	\$12.00
161 305 587	51	\$11.00

Part Number	Page	List Price
161 305 588	51	\$16.00
161 305 589	51	\$16.00
161 305 654	51	\$35.00
161 305 686	51	\$20.00
161 305 687	51	\$20.00
161 305 688	51	\$21.00
161 305 689	51	\$21.00
161 317 024	28	\$785.00
161 317 027	28	\$2,807.00
161 317 039	28	\$1,224.00
161 317 042	28	\$4,424.00
161 317 069	28	\$1,163.00
161 317 072	28	\$4,202.00
161 317 325	28	\$1,094.00
161 317 340	28	\$1,726.00
161 317 370	28	\$1,640.00
161 317 424	36	\$1,102.00
161 317 425	36	\$1,530.00
161 317 427	36	\$3,010.00
161 317 439	36	\$1,717.00
161 317 442	36	\$6,013.00
161 317 623	28	\$592.00
161 317 638	28	\$916.00
161 317 668	28	\$870.00
161 317 753	36	\$851.00
161 317 768	36	\$1,284.00
161 324 200	12	\$57.00
161 324 454	12	\$57.00
161 353 342	13	\$19.00
161 353 343	13	\$19.00
161 353 344	13	\$26.00
161 353 345	13	\$36.00
161 353 346	13	\$46.00
161 353 347	13	\$61.00
161 353 362	13	\$18.00
161 353 363	13	\$20.00
161 353 364	13	\$26.00
161 353 365	13	\$37.00
161 353 366	13	\$46.00
161 353 367	13	\$62.00
161 355 362	13	\$26.00
161 355 363	13	\$29.00
161 355 364	13	\$41.00
161 355 365	13	\$57.00
161 355 366	13	\$70.00
161 355 367	13	\$90.00
161 355 382	13	\$26.00
161 355 383	13	\$29.00
161 355 384	13	\$41.00
161 355 385	13	\$57.00
161 355 386	13	\$70.00

Part Number	Page	List Price
161 355 387	13	\$89.00
161 369 003	49	\$144.00
161 369 004	49	\$152.00
161 369 005	49	\$185.00
161 369 006	49	\$200.00
161 369 007	49	\$234.00
161 369 010	49	\$338.00
161 369 011	49	\$428.00
161 369 012	49	\$649.00
161 369 013	49	\$917.00
161 369 023	49	\$234.00
161 369 024	49	\$248.00
161 369 025	49	\$304.00
161 369 026	49	\$338.00
161 369 027	49	\$401.00
161 369 030	49	\$553.00
161 369 031	49	\$655.00
161 369 032	49	\$966.00
161 369 033	49	\$1,282.00
161 369 043	49	\$234.00
161 369 044	49	\$248.00
161 369 045	49	\$290.00
161 369 046	49	\$310.00
161 369 047	49	\$346.00
161 369 050	49	\$470.00
161 369 051	49	\$580.00
161 369 052	49	\$827.00
161 369 053	49	\$1,161.00
161 369 063	49	\$323.00
161 369 064	49	\$346.00
161 369 065	49	\$407.00
161 369 066	49	\$449.00
161 369 067	49	\$512.00
161 369 070	49	\$690.00
161 369 071	49	\$815.00
161 369 072	49	\$1,130.00
161 369 073	49	\$1,498.00
161 369 083	49	\$275.00
161 369 084	49	\$298.00
161 369 085	49	\$332.00
161 369 086	49	\$352.00
161 369 087	49	\$401.00
161 369 090	49	\$531.00
161 369 091	49	\$634.00
161 369 092	49	\$925.00
161 369 093	49	\$1,259.00
161 369 103	49	\$365.00
161 369 104	49	\$392.00
161 369 105	49	\$449.00
161 369 106	49	\$496.00
161 369 107	49	\$565.00

Part Number	Page	List Price
161 369 110	49	\$745.00
161 369 111	49	\$869.00
161 369 112	49	\$1,234.00
161 369 113	49	\$1,601.00
161 375 002	11	\$45.00
161 375 003	11	\$50.00
161 375 004	11	\$60.00
161 375 005	11	\$78.00
161 375 006	11	\$91.00
161 375 007	11	\$131.00
161 375 008	11	\$276.00
161 375 009	11	\$353.00
161 375 010	11	\$533.00
161 375 011	11	\$1,204.00
161 375 017	11	\$52.00
161 375 018	11	\$60.00
161 375 019	11	\$76.00
161 375 020	11	\$97.00
161 375 021	11	\$123.00
161 375 022	11	\$170.00
161 375 023	11	\$353.00
161 375 024	11	\$439.00
161 375 025	11	\$626.00
161 375 026	11	\$1,327.00
161 375 062	11	\$141.00
161 375 063	11	\$140.00
161 375 064	11	\$152.00
161 375 065	11	\$162.00
161 375 066	11	\$183.00
161 375 067	11	\$225.00
161 375 068	11	\$357.00
161 375 069	11	\$457.00
161 375 070	11	\$685.00
161 375 071	11	\$1,215.00
161 375 077	11	\$149.00
161 375 078	11	\$162.00
161 375 079	11	\$185.00
161 375 080	11	\$206.00
161 375 081	11	\$226.00
161 375 082	11	\$283.00
161 375 083	11	\$444.00
161 375 084	11	\$536.00
161 375 085	11	\$825.00
161 375 086	11	\$1,372.00
161 480 231	41	\$91.00
161 480 232	41	\$98.00
161 480 233	41	\$110.00
161 480 240	41	\$399.00
161 480 241	41	\$431.00
161 480 242	41	\$523.00
161 481 028	41	\$64.00

Part Number	Page	List Price
161 481 029	41	\$76.00
161 481 030	41	\$128.00
161 481 098	41	\$392.00
161 481 099	41	\$427.00
161 481 100	41	\$517.00
161 481 102	41	\$2,296.00
161 481 759	41	\$3.00
161 481 760	41	\$3.00
161 481 932	41	\$494.00
161 481 933	41	\$690.00
161 481 934	41	\$809.00
161 482 017	51	\$2.00
161 482 018	51	\$2.00
161 482 019	51	\$2.00
161 482 020	51	\$3.00
161 482 021	51	\$3.00
161 482 022	51	\$3.00
161 482 514	41	\$468.00
161 482 515	41	\$627.00
161 482 516	41	\$548.00
161 482 517	41	\$787.00
161 482 744	41	\$26.00
161 482 751	41	\$587.00
161 482 754	41	\$520.00
161 482 760	41	\$2,940.00
161 482 901	41	\$1,656.00
161 482 906	41	\$2,553.00
161 483 008	41	\$115.00
161 483 009	41	\$163.00
161 483 011	41	\$183.00
161 483 020	41	\$119.00
161 483 021	41	\$158.00
161 483 023	41	\$183.00
161 483 032	41	\$50.00
161 483 033	41	\$76.00
161 483 034	41	\$108.00
161 483 037	41	\$370.00
161 483 126	51	\$18.00
161 483 127	51	\$21.00
161 483 128	51	\$36.00
161 483 129	51	\$45.00
161 483 130	51	\$54.00
161 483 131	51	\$62.00
161 483 133	51	\$93.00
161 484 458	41	\$476.00
161 484 459	41	\$584.00
161 484 460	41	\$761.00
161 484 631	41	\$212.00
161 484 638	41	\$275.00
161 484 694	41	\$76.00
161 484 702	41	\$87.00

Part Number	Page	List Price
161 485 132	48	\$11.00
161 485 133	48	\$12.00
161 485 134	48	\$15.00
161 485 135	48	\$20.00
161 485 136	48	\$27.00
161 485 137	48	\$53.00
161 485 138	48	\$66.00
161 485 139	48	\$80.00
161 485 142	48	\$93.00
161 485 143	48	\$100.00
161 485 144	48	\$119.00
161 485 145	48	\$150.00
161 485 146	48	\$212.00
161 485 147	48	\$261.00
161 485 148	48	\$338.00
161 485 149	48	\$389.00
161 485 152	48	\$46.00
161 485 153	48	\$49.00
161 485 154	48	\$61.00
161 485 155	48	\$75.00
161 485 156	48	\$106.00
161 485 157	48	\$212.00
161 485 158	48	\$266.00
161 485 159	48	\$318.00
161 486 006	77	\$662.00
161 486 007	77	\$643.00
161 486 008	77	\$662.00
161 486 009	25	\$287.00
161 486 010	77	\$287.00
161 486 100	51	\$11.00
161 486 101	51	\$15.00
161 486 102	51	\$15.00
161 486 103	51	\$17.00
161 486 104	51	\$20.00
161 486 105	51	\$23.00
161 486 107	51	\$44.00
161 486 301	77	\$662.00
161 486 302	77	\$643.00
161 486 303	77	\$662.00
161 486 304	25	\$287.00
161 486 305	77	\$287.00
161 486 325	25	\$105.00
161 486 326	25	\$112.00
161 486 327	25	\$112.00
161 486 328	25	\$225.00
161 486 375	8	\$39.00
161 486 376	8	\$41.00
161 486 377	8	\$48.00
161 486 378	8	\$54.00
161 486 379	8	\$66.00
161 486 380	8	\$92.00

Part Number	Page	List Price
161 486 381	8	\$218.00
161 486 382	8	\$273.00
161 486 383	8	\$329.00
161 486 385	8	\$45.00
161 486 386	8	\$54.00
161 486 387	8	\$60.00
161 486 388	8	\$72.00
161 486 389	8	\$87.00
161 486 390	8	\$128.00
161 486 391	8	\$285.00
161 486 392	8	\$355.00
161 486 393	8	\$426.00
161 486 400	9	\$31.00
161 486 401	9	\$35.00
161 486 402	9	\$43.00
161 486 403	9	\$50.00
161 486 404	9	\$60.00
161 486 405	9	\$71.00
161 486 406	9	\$173.00
161 486 407	9	\$218.00
161 486 408	9	\$262.00
161 486 410	9	\$34.00
161 486 411	9	\$48.00
161 486 412	9	\$61.00
161 486 413	9	\$84.00
161 486 414	9	\$91.00
161 486 415	9	\$132.00
161 486 416	9	\$340.00
161 486 417	9	\$457.00
161 486 418	9	\$589.00
161 486 443	7	\$18.00
161 486 444	7	\$18.00
161 486 445	7	\$21.00
161 486 446	7	\$21.00
161 486 545	26	\$96.00
161 486 546	26	\$106.00
161 486 547	26	\$117.00
161 486 548	26	\$134.00
161 486 550	26	\$148.00
161 486 551	26	\$162.00
161 486 552	26	\$474.00
161 486 553	26	\$591.00
161 486 689	8	\$48.00
161 486 690	25	\$71.00
161 486 691	25	\$82.00
161 486 694	25	\$97.00
161 486 695	25	\$126.00
161 486 697	25	\$245.00
161 486 855	77	\$662.00
161 486 856	77	\$643.00
161 486 857	77	\$662.00

Part Number	Page	List Price
161 486 858	25	\$287.00
161 486 859	77	\$287.00
161 486 899	26	\$98.00
161 486 900	26	\$104.00
161 486 901	26	\$108.00
161 486 902	26	\$111.00
161 486 903	26	\$144.00
161 486 904	26	\$150.00
161 486 905	26	\$182.00
161 486 906	26	\$255.00
161 486 907	26	\$298.00
161 486 908	26	Call
161 486 909	26	Call
161 486 926	26	Call
161 486 927	26	Call
161 486 928	26	Call
161 488 162	18	\$57.00
161 488 163	18	\$65.00
161 488 164	18	\$66.00
161 488 165	18	\$71.00
161 488 166	18	\$81.00
161 488 167	18	\$88.00
161 488 172	18	\$58.00
161 488 173	18	\$66.00
161 488 174	18	\$70.00
161 488 175	18	\$74.00
161 488 176	18	\$85.00
161 488 177	18	\$90.00
161 488 182	18	\$55.00
161 488 183	18	\$62.00
161 488 184	18	\$64.00
161 488 185	18	\$68.00
161 488 186	18	\$77.00
161 488 187	18	\$82.00
161 488 192	18	\$55.00
161 488 193	18	\$64.00
161 488 194	18	\$66.00
161 488 195	18	\$72.00
161 488 196	18	\$81.00
161 488 197	18	\$85.00
161 488 202	17	\$55.00
161 488 203	17	\$64.00
161 488 204	17	\$77.00
161 488 205	17	\$90.00
161 488 206	17	\$104.00
161 488 207	17	\$131.00
161 488 212	17	\$60.00
161 488 213	17	\$72.00
161 488 214	17	\$85.00
161 488 215	17	\$100.00
161 488 216	17	\$112.00

Part Number	Page	List Price
161 488 217	17	\$142.00
161 488 222	17	\$55.00
161 488 223	17	\$64.00
161 488 224	17	\$77.00
161 488 225	17	\$90.00
161 488 226	17	\$104.00
161 488 227	17	\$131.00
161 488 232	17	\$60.00
161 488 233	17	\$72.00
161 488 234	17	\$85.00
161 488 235	17	\$100.00
161 488 236	17	\$112.00
161 488 237	17	\$142.00
161 488 242	19	\$31.00
161 488 243	19	\$32.00
161 488 244	19	\$41.00
161 488 245	19	\$43.00
161 488 246	19	\$44.00
161 488 247	19	\$54.00
161 488 248	19	\$44.00
161 488 249	19	\$47.00
161 488 250	19	\$68.00
161 488 251	19	\$66.00
161 488 252	19	\$81.00
161 488 253	19	\$82.00
161 489 131	135	\$274.00
161 489 133	135	\$333.00
161 489 136	135	\$431.00
161 489 161	135	\$233.00
161 489 163	135	\$257.00
161 489 166	135	\$425.00
161 489 231	135	\$307.00
161 489 233	135	\$343.00
161 489 236	135	\$454.00
161 489 261	135	\$284.00
161 489 263	135	\$269.00
161 489 266	135	\$462.00
161 490 538	9	\$5.00
161 490 539	9	\$5.00
161 490 540	9	\$8.00
161 490 541	9	\$11.00
161 490 542	9	\$16.00
161 490 543	9	\$27.00
161 490 544	9	\$66.00
161 490 545	9	\$84.00
161 490 546	9	\$102.00
161 490 712	10	\$2.00
161 490 713	10	\$2.00
161 490 714	10	\$2.00
161 490 715	10	\$3.00
161 490 716	10	\$4.00

Part Number	Page	List Price
161 490 717	10	\$8.00
161 490 718	10	\$16.00
161 490 719	10	\$35.00
161 490 720	10	\$45.00
161 490 721	10	\$54.00
161 490 723	10	\$4.00
161 490 724	10	\$5.00
161 490 725	10	\$8.00
161 490 726	10	\$9.00
161 490 727	10	\$15.00
161 490 728	10	\$20.00
161 490 729	10	\$28.00
161 490 730	10	\$65.00
161 490 731	10	\$141.00
161 490 732	10	\$313.00
161 491 032	4	\$128.00
161 491 034	4	\$135.00
161 491 037	4	\$173.00
161 492 062	39	\$36.00
161 492 063	39	\$42.00
161 492 064	39	\$44.00
161 492 065	39	\$52.00
161 492 066	39	\$63.00
161 492 067	39	\$80.00
161 514 612	28	\$122.00
161 514 613	28	\$135.00
161 514 614	28	\$173.00
161 514 615	28	\$268.00
161 514 616	28	\$271.00
161 514 617	28	\$310.00
161 514 622	36	\$148.00
161 514 623	36	\$167.00
161 514 624	36	\$207.00
161 514 625	36	\$247.00
161 514 626	36	\$320.00
161 514 627	36	\$396.00
161 514 632	28	\$200.00
161 514 633	28	\$212.00
161 514 634	28	\$309.00
161 514 635	28	\$422.00
161 514 636	28	\$422.00
161 514 637	28	\$517.00
161 514 662	28	\$190.00
161 514 663	28	\$202.00
161 514 664	28	\$294.00
161 514 665	28	\$402.00
161 514 666	28	\$402.00
161 514 667	28	\$491.00
161 514 672	36	\$285.00
161 514 673	36	\$300.00
161 514 674	36	\$378.00

Part Number	Page	List Price
161 514 675	36	\$474.00
161 514 676	36	\$600.00
161 514 677	36	\$740.00
161 517 612	28	\$156.00
161 517 613	28	\$179.00
161 517 614	28	\$219.00
161 517 615	28	\$331.00
161 517 616	28	\$350.00
161 517 617	28	\$409.00
161 517 622	36	\$194.00
161 517 623	36	\$224.00
161 517 624	36	\$275.00
161 517 625	36	\$338.00
161 517 626	36	\$446.00
161 517 627	36	\$558.00
161 517 632	28	\$272.00
161 517 633	28	\$299.00
161 517 634	28	\$384.00
161 517 635	28	\$488.00
161 517 636	28	\$492.00
161 517 637	28	\$609.00
161 517 662	28	\$259.00
161 517 663	28	\$284.00
161 517 664	28	\$365.00
161 517 665	28	\$464.00
161 517 666	28	\$468.00
161 517 667	28	\$578.00
161 517 672	36	\$374.00
161 517 673	36	\$400.00
161 517 674	36	\$476.00
161 517 675	36	\$617.00
161 517 676	36	\$694.00
161 517 677	36	\$853.00
161 523 521	12	\$95.00
161 523 522	12	\$100.00
161 523 531	12	\$106.00
161 523 532	12	\$108.00
161 543 081	14	\$92.00
161 543 082	14	\$93.00
161 543 083	14	\$111.00
161 543 084	14	\$136.00
161 543 085	14	\$158.00
161 543 086	14	\$181.00
161 543 087	14	\$222.00
161 543 091	14	\$104.00
161 543 092	14	\$106.00
161 543 093	14	\$122.00
161 543 094	14	\$150.00
161 543 095	14	\$176.00
161 543 096	14	\$202.00
161 543 097	14	\$262.00

Part Number	Page	List Price
161 543 101	14	\$92.00
161 543 102	14	\$95.00
161 543 103	14	\$111.00
161 543 104	14	\$137.00
161 543 105	14	\$158.00
161 543 106	14	\$181.00
161 543 107	14	\$229.00
161 543 111	14	\$104.00
161 543 112	14	\$106.00
161 543 113	14	\$125.00
161 543 114	14	\$153.00
161 543 115	14	\$176.00
161 543 116	14	\$212.00
161 543 117	14	\$273.00
161 543 281	14	\$92.00
161 543 282	14	\$93.00
161 543 283	14	\$111.00
161 543 284	14	\$136.00
161 543 285	14	\$158.00
161 543 286	14	\$181.00
161 543 287	14	\$222.00
161 543 291	14	\$104.00
161 543 292	14	\$106.00
161 543 293	14	\$122.00
161 543 294	14	\$150.00
161 543 295	14	\$176.00
161 543 296	14	\$202.00
161 543 297	14	\$262.00
161 543 301	14	\$92.00
161 543 302	14	\$95.00
161 543 303	14	\$111.00
161 543 304	14	\$137.00
161 543 305	14	\$158.00
161 543 306	14	\$181.00
161 543 307	14	\$229.00
161 543 311	14	\$104.00
161 543 312	14	\$106.00
161 543 313	14	\$122.00
161 543 314	14	\$153.00
161 543 315	14	\$176.00
161 543 316	14	\$212.00
161 543 317	14	\$274.00
161 543 661	14	\$91.00
161 543 662	14	\$93.00
161 543 663	14	\$109.00
161 543 664	14	\$134.00
161 543 665	14	\$159.00
161 543 666	14	\$184.00
161 543 667	14	\$229.00
161 543 671	14	\$103.00
161 543 672	14	\$104.00

Part Number	Page	List Price
161 543 673	14	\$119.00
161 543 674	14	\$149.00
161 543 675	14	\$177.00
161 543 676	14	\$206.00
161 543 677	14	\$265.00
161 543 681	14	\$91.00
161 543 682	14	\$93.00
161 543 683	14	\$109.00
161 543 684	14	\$134.00
161 543 685	14	\$159.00
161 543 686	14	\$184.00
161 543 687	14	\$229.00
161 543 691	14	\$103.00
161 543 692	14	\$104.00
161 543 693	14	\$119.00
161 543 694	14	\$149.00
161 543 695	14	\$177.00
161 543 696	14	\$206.00
161 543 697	14	\$265.00
161 546 168	1	\$570.00
161 546 169	1	\$671.00
161 546 170	1	\$878.00
161 546 178	1	\$648.00
161 546 179	1	\$777.00
161 546 180	1	\$1,028.00
161 546 341	1	\$59.00
161 546 342	1	\$61.00
161 546 343	1	\$72.00
161 546 344	1	\$87.00
161 546 345	1	\$109.00
161 546 346	1	\$140.00
161 546 347	1	\$177.00
161 546 348	1	\$424.00
161 546 349	1	\$507.00
161 546 350	1	\$670.00
161 546 351	1	\$72.00
161 546 352	1	\$73.00
161 546 353	1	\$85.00
161 546 354	1	\$106.00
161 546 355	1	\$131.00
161 546 356	1	\$166.00
161 546 357	1	\$222.00
161 546 358	1	\$503.00
161 546 359	1	\$614.00
161 546 360	1	\$816.00
161 546 361	1	\$84.00
161 546 362	1	\$87.00
161 546 363	1	\$102.00
161 546 364	1	\$116.00
161 546 365	1	\$142.00
161 546 366	1	\$177.00

Part Number	Page	List Price
161 546 367	1	\$215.00
161 546 368	1	\$519.00
161 546 369	1	\$625.00
161 546 370	1	\$851.00
161 546 371	1	\$97.00
161 546 372	1	\$102.00
161 546 373	1	\$112.00
161 546 374	1	\$137.00
161 546 375	1	\$165.00
161 546 376	1	\$200.00
161 546 377	1	\$258.00
161 546 378	1	\$614.00
161 546 379	1	\$742.00
161 546 380	1	\$874.00
161 546 582	1	\$153.00
161 546 583	1	\$165.00
161 546 584	1	\$183.00
161 546 585	1	\$231.00
161 546 586	1	\$248.00
161 546 587	1	\$268.00
161 546 592	1	\$164.00
161 546 593	1	\$185.00
161 546 594	1	\$221.00
161 546 595	1	\$260.00
161 546 596	1	\$285.00
161 546 597	1	\$313.00
161 546 648	1	\$572.00
161 546 649	1	\$703.00
161 546 650	1	\$837.00
161 546 658	1	\$673.00
161 546 659	1	\$823.00
161 546 660	1	\$972.00
161 546 841	5	\$66.00
161 546 842	5	\$74.00
161 546 843	5	\$87.00
161 546 844	5	\$106.00
161 546 845	5	\$133.00
161 546 846	5	\$169.00
161 546 847	5	\$213.00
161 546 848	5	\$520.00
161 546 849	5	\$677.00
161 546 850	5	\$819.00
161 546 851	5	\$83.00
161 546 852	5	\$89.00
161 546 853	5	\$105.00
161 546 854	5	\$130.00
161 546 855	5	\$158.00
161 546 856	5	\$201.00
161 546 857	5	\$266.00
161 546 858	5	\$702.00
161 546 859	5	\$801.00

Part Number	Page	List Price
161 546 860	5	\$999.00
161 561 101	42	\$48.00
161 561 102	42	\$48.00
161 561 103	42	\$57.00
161 561 104	42	\$60.00
161 561 105	42	\$74.00
161 561 106	42	\$91.00
161 561 107	42	\$131.00
161 561 108	42	\$307.00
161 561 109	42	\$363.00
161 561 110	42	\$854.00
161 561 111	42	\$58.00
161 561 112	42	\$58.00
161 561 113	42	\$61.00
161 561 114	42	\$73.00
161 561 115	42	\$88.00
161 561 116	42	\$116.00
161 561 117	42	\$171.00
161 561 118	42	\$369.00
161 561 119	42	\$459.00
161 561 120	42	\$947.00
161 562 101	44	\$70.00
161 562 102	44	\$70.00
161 562 103	44	\$80.00
161 562 104	44	\$87.00
161 562 105	44	\$105.00
161 562 106	44	\$130.00
161 562 107	44	\$184.00
161 562 108	44	\$368.00
161 562 109	44	\$459.00
161 562 110	44	\$1,195.00
161 562 111	44	\$82.00
161 562 112	44	\$82.00
161 562 113	44	\$93.00
161 562 114	44	\$102.00
161 562 115	44	\$122.00
161 562 116	44	\$151.00
161 562 117	44	\$215.00
161 562 118	44	\$430.00
161 562 119	44	\$537.00
161 562 120	44	\$1,327.00
161 563 002	22	\$138.00
161 563 003	22	\$151.00
161 563 004	22	\$159.00
161 563 005	22	\$179.00
161 563 006	22	\$255.00
161 563 007	22	\$255.00
161 563 008	22	\$402.00
161 563 009	22	\$920.00
161 563 010	22	\$1,349.00
161 563 042	22	\$405.00

Part Number	Page	List Price
161 563 043	22	\$412.00
161 563 044	22	\$422.00
161 563 045	22	\$437.00
161 563 047	22	\$520.00
161 563 048	22	\$604.00
161 563 049	22	\$981.00
161 563 050	22	\$1,472.00
161 567 002	20	\$210.00
161 567 003	20	\$219.00
161 567 004	20	\$233.00
161 567 005	20	\$252.00
161 567 006	20	\$363.00
161 567 007	20	\$363.00
161 567 008	20	\$542.00
161 567 009	20	\$1,932.00
161 567 010	20	\$2,642.00
161 567 022	20	\$331.00
161 567 023	20	\$338.00
161 567 024	20	\$351.00
161 567 025	20	\$382.00
161 567 026	20	\$535.00
161 567 027	20	\$535.00
161 567 028	20	\$693.00
161 567 029	20	\$2,854.00
161 567 030	20	\$3,582.00
161 567 042	20	\$476.00
161 567 043	20	\$487.00
161 567 044	20	\$499.00
161 567 045	20	\$515.00
161 567 046	20	\$614.00
161 567 047	20	\$614.00
161 567 048	20	\$712.00
161 567 049	20	\$2,191.00
161 567 050	20	\$2,938.00
161 567 051	20	Call
161 567 052	20	Call
161 567 062	20	\$620.00
161 567 063	20	\$626.00
161 567 064	20	\$639.00
161 567 065	20	\$668.00
161 567 066	20	\$810.00
161 567 067	20	\$810.00
161 567 068	20	\$960.00
161 567 069	20	\$3,479.00
161 567 070	20	\$4,292.00
161 567 071	20	Call
161 567 072	20	Call
161 567 802	20	\$182.00
161 567 803	20	\$193.00
161 567 804	20	\$203.00
161 567 805	20	\$219.00

Part Number	Page	List Price
161 567 806	20	\$316.00
161 567 807	20	\$316.00
161 567 808	20	\$410.00
161 567 809	20	\$1,804.00
161 567 810	20	\$2,474.00
161 567 811	20	Call
161 567 812	20	Call
161 567 822	20	\$304.00
161 567 823	20	\$309.00
161 567 824	20	\$320.00
161 567 825	20	\$349.00
161 567 826	20	\$488.00
161 567 827	20	\$488.00
161 567 828	20	\$632.00
161 567 829	20	\$2,679.00
161 567 830	20	\$3,417.00
161 567 831	20	Call
161 567 832	20	Call
161 578 102	23	\$616.00
161 578 103	23	\$637.00
161 578 104	23	\$637.00
161 578 105	23	\$1,081.00
161 578 106	23	\$1,408.00
161 578 107	23	\$1,408.00
161 578 108	23	\$1,902.00
161 578 109	23	\$3,721.00
161 578 110	23	\$4,465.00
161 578 122	23	\$725.00
161 578 123	23	\$749.00
161 578 124	23	\$749.00
161 578 125	23	\$1,243.00
161 578 126	23	\$1,656.00
161 578 127	23	\$1,656.00
161 578 128	23	\$2,238.00
161 578 129	23	\$4,378.00
161 578 130	23	\$5,253.00
161 578 142	23	\$1,033.00
161 578 143	23	\$1,070.00
161 578 144	23	\$1,081.00
161 578 145	23	\$1,491.00
161 578 146	23	\$1,800.00
161 578 147	23	\$1,811.00
161 578 148	23	\$2,131.00
161 578 149	23	\$3,958.00
161 578 150	23	\$4,750.00
161 578 162	23	\$1,148.00
161 578 163	23	\$1,189.00
161 578 164	23	\$1,201.00
161 578 165	23	\$1,657.00
161 578 166	23	\$2,000.00
161 578 167	23	\$2,012.00

Part Number	Page	List Price
161 578 168	23	\$2,368.00
161 578 169	23	\$4,656.00
161 578 170	23	\$5,938.00
161 582 202	132	\$507.00
161 582 203	132	\$684.00
161 582 204	132	\$796.00
161 582 205	132	\$855.00
161 582 206	132	\$929.00
161 582 207	132	\$1,171.00
161 582 212	132	\$553.00
161 582 213	132	\$732.00
161 582 214	132	\$849.00
161 582 215	132	\$911.00
161 582 216	132	\$964.00
161 582 217	132	\$1,200.00
161 582 222	132	\$558.00
161 582 223	132	\$752.00
161 582 224	132	\$876.00
161 582 225	132	\$940.00
161 582 226	132	\$1,023.00
161 582 227	132	\$1,288.00
161 582 232	132	\$609.00
161 582 233	132	\$806.00
161 582 234	132	\$935.00
161 582 235	132	\$1,003.00
161 582 236	132	\$1,061.00
161 582 237	132	\$1,320.00
161 582 602	132	\$583.00
161 582 603	132	\$786.00
161 582 604	132	\$916.00
161 582 605	132	\$983.00
161 582 606	132	\$1,069.00
161 582 607	132	\$1,346.00
161 582 612	132	\$636.00
161 582 613	132	\$845.00
161 582 614	132	\$979.00
161 582 615	132	\$1,048.00
161 582 616	132	\$1,109.00
161 582 617	132	\$1,380.00
161 586 202	134	\$345.00
161 586 203	134	\$411.00
161 586 204	134	\$473.00
161 586 205	134	\$568.00
161 586 206	134	\$637.00
161 586 207	134	\$783.00
161 586 212	134	\$381.00
161 586 213	134	\$450.00
161 586 214	134	\$514.00
161 586 215	134	\$611.00
161 586 216	134	\$685.00
161 586 217	134	\$841.00

Part Number	Page	List Price
161 586 602	134	\$397.00
161 586 603	134	\$473.00
161 586 604	134	\$544.00
161 586 605	134	\$653.00
161 586 606	134	\$733.00
161 586 607	134	\$901.00
161 586 612	134	\$433.00
161 586 613	134	\$512.00
161 586 614	134	\$585.00
161 586 615	134	\$696.00
161 586 616	134	\$781.00
161 586 617	134	\$959.00
161 591 101	46	\$73.00
161 591 102	46	\$73.00
161 591 103	46	\$97.00
161 591 104	46	\$118.00
161 591 105	46	\$143.00
161 591 106	46	\$222.00
161 591 107	46	\$317.00
161 591 108	46	\$509.00
161 591 109	46	\$636.00
161 591 110	46	\$761.00
161 591 111	46	\$88.00
161 591 112	46	\$88.00
161 591 113	46	\$115.00
161 591 114	46	\$142.00
161 591 115	46	\$173.00
161 591 116	46	\$268.00
161 591 117	46	\$381.00
161 591 118	46	\$610.00
161 591 119	46	\$761.00
161 591 120	46	\$915.00
161 595 101	47	\$88.00
161 595 102	47	\$88.00
161 595 103	47	\$115.00
161 595 104	47	\$142.00
161 595 105	47	\$173.00
161 595 106	47	\$268.00
161 595 107	47	\$381.00
161 595 108	47	\$610.00
161 595 109	47	\$761.00
161 595 110	47	\$914.00
161 595 111	47	\$102.00
161 595 112	47	\$102.00
161 595 113	47	\$136.00
161 595 114	47	\$166.00
161 595 115	47	\$202.00
161 595 116	47	\$313.00
161 595 117	47	\$445.00
161 595 118	47	\$712.00
161 595 119	47	\$889.00

Part Number	Page	List Price
161 595 120	47	\$1,066.00
161 614 612	112	\$190.00
161 614 613	112	\$200.00
161 614 614	112	\$214.00
161 614 615	112	\$268.00
161 614 616	112	\$334.00
161 614 617	112	\$409.00
161 624 612	112	\$277.00
161 624 613	112	\$310.00
161 624 614	112	\$358.00
161 624 615	112	\$443.00
161 624 616	112	\$512.00
161 624 617	112	\$626.00
161 624 632	112	\$346.00
161 624 633	112	\$372.00
161 624 634	112	\$396.00
161 624 635	112	\$496.00
161 624 636	112	\$593.00
161 624 637	112	\$756.00
161 624 662	112	\$329.00
161 624 663	112	\$353.00
161 624 664	112	\$376.00
161 624 665	112	\$472.00
161 624 666	112	\$563.00
161 624 667	112	\$718.00
161 627 612	112	\$321.00
161 627 613	112	\$344.00
161 627 614	112	\$366.00
161 627 615	112	\$457.00
161 627 616	112	\$548.00
161 627 617	112	\$699.00
161 627 632	112	\$421.00
161 627 633	112	\$446.00
161 627 634	112	\$474.00
161 627 635	112	\$593.00
161 627 636	112	\$739.00
161 627 637	112	\$905.00
161 627 662	112	\$401.00
161 627 663	112	\$423.00
161 627 664	112	\$450.00
161 627 665	112	\$563.00
161 627 666	112	\$701.00
161 627 667	112	\$860.00
161 644 612	113	\$208.00
161 644 613	113	\$222.00
161 644 614	113	\$234.00
161 644 615	113	\$294.00
161 644 616	113	\$370.00
161 644 617	113	\$451.00
161 644 632	113	\$262.00
161 644 633	113	\$279.00

Part Number	Page	List Price
161 644 634	113	\$299.00
161 644 635	113	\$374.00
161 644 636	113	\$471.00
161 644 637	113	\$565.00
161 644 662	113	\$236.00
161 644 663	113	\$251.00
161 644 664	113	\$269.00
161 644 665	113	\$337.00
161 644 666	113	\$423.00
161 644 667	113	\$509.00
161 647 612	113	\$224.00
161 647 613	113	\$241.00
161 647 614	113	\$255.00
161 647 615	113	\$317.00
161 647 616	113	\$401.00
161 647 617	113	\$485.00
161 647 632	113	\$302.00
161 647 633	113	\$323.00
161 647 634	113	\$341.00
161 647 635	113	\$430.00
161 647 636	113	\$538.00
161 647 637	113	\$651.00
161 647 662	113	\$286.00
161 647 663	113	\$307.00
161 647 664	113	\$323.00
161 647 665	113	\$408.00
161 647 666	113	\$511.00
161 647 667	113	\$618.00
161 654 612	113	\$208.00
161 654 613	113	\$222.00
161 654 614	113	\$234.00
161 654 615	113	\$294.00
161 654 616	113	\$370.00
161 654 617	113	\$451.00
161 654 632	113	\$262.00
161 654 633	113	\$279.00
161 654 634	113	\$299.00
161 654 635	113	\$374.00
161 654 636	113	\$471.00
161 654 637	113	\$565.00
161 654 662	113	\$248.00
161 654 663	113	\$265.00
161 654 664	113	\$284.00
161 654 665	113	\$355.00
161 654 666	113	\$447.00
161 654 667	113	\$538.00
161 657 612	113	\$228.00
161 657 613	113	\$253.00
161 657 614	113	\$260.00
161 657 615	113	\$323.00
161 657 616	113	\$408.00

Part Number	Page	List Price
161 657 617	113	\$495.00
161 657 632	113	\$323.00
161 657 633	113	\$349.00
161 657 634	113	\$369.00
161 657 635	113	\$458.00
161 657 636	113	\$581.00
161 657 637	113	\$701.00
161 657 662	113	\$307.00
161 657 663	113	\$332.00
161 657 664	113	\$350.00
161 657 665	113	\$436.00
161 657 666	113	\$552.00
161 657 667	113	\$666.00
161 684 612	114	\$347.00
161 684 613	114	\$361.00
161 684 614	114	\$386.00
161 684 615	114	\$470.00
161 684 616	114	\$584.00
161 684 617	114	\$713.00
161 684 632	114	\$423.00
161 684 633	114	\$446.00
161 684 634	114	\$476.00
161 684 635	114	\$597.00
161 684 636	114	\$748.00
161 684 637	114	\$916.00
161 684 662	114	\$402.00
161 684 663	114	\$423.00
161 684 664	114	\$452.00
161 684 665	114	\$568.00
161 684 666	114	\$711.00
161 684 667	114	\$870.00
161 687 612	114	\$380.00
161 687 613	114	\$404.00
161 687 614	114	\$428.00
161 687 615	114	\$537.00
161 687 616	114	\$673.00
161 687 617	114	\$823.00
161 687 632	114	\$488.00
161 687 633	114	\$513.00
161 687 634	114	\$550.00
161 687 635	114	\$688.00
161 687 636	114	\$862.00
161 687 637	114	\$1,051.00
161 687 662	114	\$464.00
161 687 663	114	\$487.00
161 687 664	114	\$522.00
161 687 665	114	\$654.00
161 687 666	114	\$819.00
161 687 667	114	\$998.00
163 317 024	29	\$1,440.00
163 317 039	29	\$2,201.00

Part Number	Page	List Price
163 317 325	29	\$1,927.00
163 317 340	29	\$2,912.00
163 317 623	29	\$943.00
163 317 638	29	\$1,625.00
163 375 002	11	\$49.00
163 375 003	11	\$73.00
163 375 004	11	\$87.00
163 375 005	11	\$111.00
163 375 006	11	\$145.00
163 375 007	11	\$218.00
163 375 017	11	\$72.00
163 375 018	11	\$90.00
163 375 019	11	\$110.00
163 375 020	11	\$166.00
163 375 021	11	\$185.00
163 375 022	11	\$270.00
163 375 062	11	\$156.00
163 375 063	11	\$179.00
163 375 064	11	\$209.00
163 375 065	11	\$218.00
163 375 066	11	\$271.00
163 375 067	11	\$366.00
163 375 077	11	\$178.00
163 375 078	11	\$198.00
163 375 079	11	\$225.00
163 375 080	11	\$269.00
163 375 081	11	\$319.00
163 375 082	11	\$428.00
163 481 226	9	\$9.00
163 481 227	9	\$11.00
163 481 228	9	\$14.00
163 481 229	9	\$26.00
163 481 230	9	\$32.00
163 481 231	9	\$50.00
163 481 232	9	\$111.00
163 481 233	9	\$140.00
163 481 234	9	\$167.00
163 481 311	10	\$5.00
163 481 312	10	\$5.00
163 481 313	10	\$6.00
163 481 314	10	\$6.00
163 481 315	10	\$14.00
163 481 316	10	\$22.00
163 481 317	10	\$26.00
163 481 318	10	\$62.00
163 481 319	10	\$77.00
163 481 320	10	\$95.00
163 481 322	10	\$5.00
163 481 323	10	\$5.00
163 481 324	10	\$6.00
163 481 325	10	\$6.00

Part Number	Page	List Price
163 481 326	10	\$14.00
163 481 327	10	\$22.00
163 481 328	10	\$26.00
163 481 329	10	\$93.00
163 481 330	10	\$103.00
163 481 331	10	\$106.00
163 481 375	8	\$60.00
163 481 376	8	\$61.00
163 481 377	8	\$75.00
163 481 378	8	\$84.00
163 481 379	8	\$104.00
163 481 380	8	\$142.00
163 481 381	8	\$273.00
163 481 382	8	\$341.00
163 481 383	8	\$409.00
163 481 385	8	\$72.00
163 481 386	8	\$85.00
163 481 387	8	\$96.00
163 481 388	8	\$115.00
163 481 389	8	\$140.00
163 481 390	8	\$207.00
163 481 391	8	\$366.00
163 481 392	8	\$457.00
163 481 393	8	\$550.00
163 481 982	18	\$77.00
163 481 983	18	\$90.00
163 481 984	18	\$92.00
163 481 985	18	\$96.00
163 481 986	18	\$110.00
163 481 987	18	\$118.00
163 481 992	18	\$77.00
163 481 993	18	\$90.00
163 481 994	18	\$93.00
163 481 995	18	\$103.00
163 481 996	18	\$117.00
163 481 997	18	\$122.00
163 482 002	18	\$77.00
163 482 003	18	\$90.00
163 482 004	18	\$92.00
163 482 005	18	\$96.00
163 482 006	18	\$110.00
163 482 007	18	\$118.00
163 482 012	18	\$77.00
163 482 013	18	\$90.00
163 482 014	18	\$93.00
163 482 015	18	\$103.00
163 482 016	18	\$117.00
163 482 017	18	\$122.00
163 482 052	39	\$76.00
163 482 053	39	\$87.00
163 482 054	39	\$92.00

Part Number	Page	List Price
163 482 055	39	\$110.00
163 482 056	39	\$135.00
163 482 057	39	\$169.00
163 489 131	135	\$411.00
163 489 133	135	\$499.00
163 489 136	135	\$646.00
163 489 161	135	\$350.00
163 489 163	135	\$386.00
163 489 166	135	\$638.00
163 489 231	135	\$460.00
163 489 233	135	\$515.00
163 489 236	135	\$680.00
163 489 261	135	\$425.00
163 489 263	135	\$403.00
163 489 266	135	\$693.00
163 514 612	29	\$219.00
163 514 613	29	\$237.00
163 514 614	29	\$304.00
163 514 615	29	\$392.00
163 514 616	29	\$428.00
163 514 617	29	\$457.00
163 514 632	29	\$305.00
163 514 633	29	\$336.00
163 514 634	29	\$420.00
163 514 635	29	\$518.00
163 514 636	29	\$583.00
163 514 637	29	\$657.00
163 514 662	29	\$289.00
163 514 663	29	\$319.00
163 514 664	29	\$400.00
163 514 665	29	\$492.00
163 514 666	29	\$554.00
163 514 667	29	\$624.00
163 517 712	29	\$256.00
163 517 713	29	\$285.00
163 517 714	29	\$354.00
163 517 715	29	\$453.00
163 517 716	29	\$459.00
163 517 717	29	\$514.00
163 517 732	29	\$351.00
163 517 733	29	\$379.00
163 517 734	29	\$497.00
163 517 735	29	\$636.00
163 517 736	29	\$743.00
163 517 737	29	\$832.00
163 517 762	29	\$334.00
163 517 763	29	\$361.00
163 517 764	29	\$473.00
163 517 765	29	\$604.00
163 517 766	29	\$706.00
163 517 767	29	\$791.00

Part Number	Page	List Price
163 523 521	12	\$133.00
163 523 522	12	\$141.00
163 523 531	12	\$149.00
163 523 532	12	\$152.00
163 543 081	15	\$176.00
163 543 082	15	\$176.00
163 543 083	15	\$212.00
163 543 084	15	\$260.00
163 543 085	15	\$301.00
163 543 086	15	\$345.00
163 543 087	15	\$427.00
163 543 091	15	\$194.00
163 543 092	15	\$194.00
163 543 093	15	\$224.00
163 543 094	15	\$279.00
163 543 095	15	\$329.00
163 543 096	15	\$385.00
163 543 097	15	\$491.00
163 543 101	15	\$176.00
163 543 102	15	\$176.00
163 543 103	15	\$212.00
163 543 104	15	\$260.00
163 543 105	15	\$301.00
163 543 106	15	\$345.00
163 543 107	15	\$427.00
163 543 111	15	\$194.00
163 543 112	15	\$194.00
163 543 113	15	\$224.00
163 543 114	15	\$279.00
163 543 115	15	\$329.00
163 543 116	15	\$385.00
163 543 117	15	\$491.00
163 543 281	15	\$176.00
163 543 282	15	\$176.00
163 543 283	15	\$212.00
163 543 284	15	\$260.00
163 543 285	15	\$301.00
163 543 286	15	\$345.00
163 543 287	15	\$427.00
163 543 291	15	\$194.00
163 543 292	15	\$194.00
163 543 293	15	\$224.00
163 543 294	15	\$279.00
163 543 295	15	\$329.00
163 543 296	15	\$385.00
163 543 297	15	\$491.00
163 543 301	15	\$176.00
163 543 302	15	\$176.00
163 543 303	15	\$212.00
163 543 304	15	\$260.00
163 543 305	15	\$301.00

Part Number	Page	List Price
163 543 306	15	\$345.00
163 543 307	15	\$427.00
163 543 311	15	\$194.00
163 543 312	15	\$194.00
163 543 313	15	\$224.00
163 543 314	15	\$279.00
163 543 315	15	\$329.00
163 543 316	15	\$385.00
163 543 317	15	\$491.00
163 546 341	2	\$98.00
163 546 342	2	\$103.00
163 546 343	2	\$116.00
163 546 344	2	\$142.00
163 546 345	2	\$180.00
163 546 346	2	\$215.00
163 546 347	2	\$267.00
163 546 348	2	\$693.00
163 546 349	2	\$847.00
163 546 350	2	\$1,018.00
163 546 351	2	\$108.00
163 546 352	2	\$110.00
163 546 353	2	\$135.00
163 546 354	2	\$169.00
163 546 355	2	\$211.00
163 546 356	2	\$253.00
163 546 357	2	\$337.00
163 546 358	2	\$787.00
163 546 359	2	\$982.00
163 546 360	2	\$1,181.00
163 546 361	2	\$134.00
163 546 362	2	\$135.00
163 546 363	2	\$151.00
163 546 364	2	\$180.00
163 546 365	2	\$231.00
163 546 366	2	\$267.00
163 546 367	2	\$323.00
163 546 368	2	\$837.00
163 546 369	2	\$1,015.00
163 546 370	2	\$1,195.00
163 546 371	2	\$142.00
163 546 372	2	\$146.00
163 546 373	2	\$167.00
163 546 374	2	\$206.00
163 546 375	2	\$258.00
163 546 376	2	\$295.00
163 546 377	2	\$381.00
163 546 378	2	\$948.00
163 546 379	2	\$1,155.00
163 546 380	2	\$1,365.00
163 546 582	2	\$154.00
163 546 583	2	\$171.00

Part Number	Page	List Price
163 546 584	2	\$244.00
163 546 585	2	\$258.00
163 546 586	2	\$300.00
163 546 587	2	\$451.00
163 546 588	2	\$876.00
163 546 589	2	\$1,070.00
163 546 590	2	\$1,252.00
163 546 592	2	\$222.00
163 546 593	2	\$237.00
163 546 594	2	\$291.00
163 546 595	2	\$346.00
163 546 596	2	\$383.00
163 546 597	2	\$512.00
163 546 598	2	\$982.00
163 546 599	2	\$1,214.00
163 546 600	2	\$1,520.00
163 546 842	5	\$138.00
163 546 843	5	\$162.00
163 546 844	5	\$202.00
163 546 845	5	\$281.00
163 546 846	5	\$306.00
163 546 847	5	\$386.00
163 546 852	5	\$140.00
163 546 853	5	\$169.00
163 546 854	5	\$214.00
163 546 855	5	\$267.00
163 546 856	5	\$321.00
163 546 857	5	\$428.00
163 561 101	42	\$97.00
163 561 102	42	\$97.00
163 561 103	42	\$115.00
163 561 104	42	\$138.00
163 561 105	42	\$202.00
163 561 106	42	\$211.00
163 561 107	42	\$269.00
163 561 108	42	\$685.00
163 561 109	42	\$857.00
163 561 110	42	\$1,539.00
163 561 111	42	\$107.00
163 561 112	42	\$107.00
163 561 113	42	\$131.00
163 561 114	42	\$164.00
163 561 115	42	\$237.00
163 561 116	42	\$253.00
163 561 117	42	\$336.00
163 561 118	42	\$823.00
163 561 119	42	\$1,028.00
163 561 120	42	\$2,535.00
163 562 101	44	\$141.00
163 562 102	44	\$141.00
163 562 103	44	\$165.00

Part Number	Page	List Price
163 562 104	44	\$199.00
163 562 105	44	\$283.00
163 562 106	44	\$301.00
163 562 107	44	\$385.00
163 562 108	44	\$773.00
163 562 109	44	\$966.00
163 562 110	44	\$2,157.00
163 562 111	44	\$166.00
163 562 112	44	\$166.00
163 562 113	44	\$195.00
163 562 114	44	\$235.00
163 562 115	44	\$334.00
163 562 116	44	\$355.00
163 562 117	44	\$454.00
163 562 118	44	\$909.00
163 562 119	44	\$1,137.00
163 562 120	44	\$3,209.00
163 567 002	20	\$404.00
163 567 003	20	\$446.00
163 567 004	20	\$494.00
163 567 005	20	\$577.00
163 567 006	20	\$788.00
163 567 007	20	\$788.00
163 567 008	20	\$1,018.00
163 567 022	20	\$565.00
163 567 023	20	\$613.00
163 567 024	20	\$720.00
163 567 025	20	\$833.00
163 567 026	20	\$1,094.00
163 567 027	20	\$1,094.00
163 567 028	20	\$1,416.00
163 567 042	20	\$654.00
163 567 043	20	\$699.00
163 567 044	20	\$787.00
163 567 045	20	\$869.00
163 567 046	20	\$1,123.00
163 567 047	20	\$1,123.00
163 567 048	20	\$1,367.00
163 567 062	20	\$760.00
163 567 063	20	\$832.00
163 567 064	20	\$923.00
163 567 065	20	\$1,022.00
163 567 066	20	\$1,227.00
163 567 067	20	\$1,227.00
163 567 068	20	\$1,503.00
163 567 802	20	\$350.00
163 567 803	20	\$392.00
163 567 804	20	\$476.00
163 567 805	20	\$556.00
163 567 806	20	\$796.00
163 567 807	20	\$796.00

Part Number	Page	List Price
163 567 808	20	\$1,030.00
163 567 822	20	\$431.00
163 567 823	20	\$502.00
163 567 824	20	\$589.00
163 567 825	20	\$682.00
163 567 826	20	\$895.00
163 567 827	20	\$895.00
163 567 828	20	\$1,160.00
163 578 102	23	\$880.00
163 578 103	23	\$910.00
163 578 104	23	\$910.00
163 578 105	23	\$1,544.00
163 578 106	23	\$2,011.00
163 578 107	23	\$2,011.00
163 578 108	23	\$2,717.00
163 578 109	23	\$7,752.00
163 578 110	23	\$8,930.00
163 578 122	23	\$1,100.00
163 578 123	23	\$1,138.00
163 578 124	23	\$1,138.00
163 578 125	23	\$1,930.00
163 578 126	23	\$2,514.00
163 578 127	23	\$2,514.00
163 578 128	23	\$3,396.00
163 578 129	23	\$9,690.00
163 578 130	23	\$10,506.00
163 578 142	23	\$1,098.00
163 578 143	23	\$1,355.00
163 578 144	23	\$1,355.00
163 578 145	23	\$1,716.00
163 578 146	23	\$2,234.00
163 578 147	23	\$2,234.00
163 578 148	23	\$3,019.00
163 578 149	23	\$8,613.00
163 578 150	23	\$9,922.00
163 578 162	23	\$1,222.00
163 578 163	23	\$1,517.00
163 578 164	23	\$1,517.00
163 578 165	23	\$2,144.00
163 578 166	23	\$2,793.00
163 578 167	23	\$2,793.00
163 578 168	23	\$3,773.00
163 578 169	23	\$10,767.00
163 578 170	23	\$11,673.00
163 582 202	132	\$803.00
163 582 203	132	\$1,117.00
163 582 204	132	\$1,368.00
163 582 205	132	\$1,573.00
163 582 206	132	\$1,660.00
163 582 207	132	\$2,495.00
163 582 212	132	\$819.00

Part Number	Page	List Price
163 582 213	132	\$1,170.00
163 582 214	132	\$1,426.00
163 582 215	132	\$1,631.00
163 582 216	132	\$1,723.00
163 582 217	132	\$2,558.00
163 582 222	132	\$884.00
163 582 223	132	\$1,230.00
163 582 224	132	\$1,505.00
163 582 225	132	\$1,730.00
163 582 226	132	\$1,827.00
163 582 227	132	\$2,745.00
163 582 232	132	\$901.00
163 582 233	132	\$1,287.00
163 582 234	132	\$1,568.00
163 582 235	132	\$1,798.00
163 582 236	132	\$1,896.00
163 582 237	132	\$2,816.00
163 582 602	132	\$771.00
163 582 603	132	\$1,040.00
163 582 604	132	\$1,211.00
163 582 605	132	\$1,299.00
163 582 606	132	\$1,414.00
163 582 607	132	\$1,780.00
163 582 612	132	\$842.00
163 582 613	132	\$1,108.00
163 582 614	132	\$1,279.00
163 582 615	132	\$1,386.00
163 582 616	132	\$1,466.00
163 582 617	132	\$1,825.00
163 586 202	134	\$548.00
163 586 203	134	\$645.00
163 586 204	134	\$750.00
163 586 205	134	\$856.00
163 586 206	134	\$961.00
163 586 207	134	\$1,169.00
163 586 212	134	\$584.00
163 586 213	134	\$684.00
163 586 214	134	\$791.00
163 586 215	134	\$899.00
163 586 216	134	\$1,009.00
163 586 217	134	\$1,227.00
163 586 602	134	\$630.00
163 586 603	134	\$741.00
163 586 604	134	\$862.00
163 586 605	134	\$984.00
163 586 606	134	\$1,105.00
163 586 607	134	\$1,344.00
163 586 612	134	\$666.00
163 586 613	134	\$780.00
163 586 614	134	\$903.00
163 586 615	134	\$1,027.00

Part Number	Page	List Price
163 586 616	134	\$1,153.00
163 586 617	134	\$1,402.00
163 591 101	46	\$155.00
163 591 102	46	\$155.00
163 591 103	46	\$211.00
163 591 104	46	\$296.00
163 591 105	46	\$426.00
163 591 106	46	\$559.00
163 591 107	46	\$709.00
163 591 108	46	\$1,133.00
163 591 109	46	\$1,417.00
163 591 110	46	\$1,702.00
163 591 111	46	\$185.00
163 591 112	46	\$185.00
163 591 113	46	\$253.00
163 591 114	46	\$354.00
163 591 115	46	\$512.00
163 591 116	46	\$672.00
163 591 117	46	\$851.00
163 591 118	46	\$1,362.00
163 591 119	46	\$1,702.00
163 591 120	46	\$2,041.00
163 595 101	47	\$176.00
163 595 102	47	\$176.00
163 595 103	47	\$240.00
163 595 104	47	\$330.00
163 595 105	47	\$468.00
163 595 106	47	\$623.00
163 595 107	47	\$799.00
163 595 108	47	\$1,279.00
163 595 109	47	\$1,599.00
163 595 110	47	\$1,918.00
163 595 111	47	\$206.00
163 595 112	47	\$206.00
163 595 113	47	\$283.00
163 595 114	47	\$389.00
163 595 115	47	\$554.00
163 595 116	47	\$734.00
163 595 117	47	\$940.00
163 595 118	47	\$1,505.00
163 595 119	47	\$1,882.00
163 595 120	47	\$2,258.00
163 614 612	115	\$219.00
163 614 613	115	\$231.00
163 614 614	115	\$253.00
163 614 615	115	\$317.00
163 614 616	115	\$389.00
163 614 617	115	\$480.00
163 624 612	115	\$353.00
163 624 613	115	\$372.00
163 624 614	115	\$408.00

Part Number	Page	List Price
163 624 615	115	\$512.00
163 624 616	115	\$626.00
163 624 617	115	\$773.00
163 624 632	115	\$458.00
163 624 633	115	\$482.00
163 624 634	115	\$530.00
163 624 635	115	\$665.00
163 624 636	115	\$815.00
163 624 637	115	\$1,005.00
163 624 662	115	\$436.00
163 624 663	115	\$458.00
163 624 664	115	\$504.00
163 624 665	115	\$632.00
163 624 666	115	\$774.00
163 624 667	115	\$955.00
163 627 712	115	\$381.00
163 627 713	115	\$405.00
163 627 714	115	\$444.00
163 627 715	115	\$561.00
163 627 716	115	\$684.00
163 627 717	115	\$844.00
163 627 732	115	\$486.00
163 627 733	115	\$515.00
163 627 734	115	\$566.00
163 627 735	115	\$714.00
163 627 736	115	\$873.00
163 627 737	115	\$1,076.00
163 627 762	115	\$464.00
163 627 763	115	\$491.00
163 627 764	115	\$540.00
163 627 765	115	\$681.00
163 627 766	115	\$832.00
163 627 767	115	\$1,026.00
163 644 612	116	\$237.00
163 644 613	116	\$253.00
163 644 614	116	\$268.00
163 644 615	116	\$336.00
163 644 616	116	\$408.00
163 644 617	116	\$495.00
163 644 632	116	\$302.00
163 644 633	116	\$323.00
163 644 634	116	\$341.00
163 644 635	116	\$430.00
163 644 636	116	\$538.00
163 644 637	116	\$651.00
163 644 662	116	\$286.00
163 644 663	116	\$307.00
163 644 664	116	\$323.00
163 644 665	116	\$408.00
163 644 666	116	\$511.00
163 644 667	116	\$618.00

Part Number	Page	List Price
163 647 662	116	\$314.00
163 647 663	116	\$340.00
163 647 664	116	\$359.00
163 647 665	116	\$457.00
163 647 666	116	\$569.00
163 647 667	116	\$689.00
163 647 712	116	\$265.00
163 647 713	116	\$286.00
163 647 714	116	\$304.00
163 647 715	116	\$385.00
163 647 716	116	\$466.00
163 647 717	116	\$566.00
163 647 732	116	\$330.00
163 647 733	116	\$356.00
163 647 734	116	\$377.00
163 647 735	116	\$479.00
163 647 736	116	\$596.00
163 647 737	116	\$722.00
163 654 612	116	\$239.00
163 654 613	116	\$257.00
163 654 614	116	\$273.00
163 654 615	116	\$339.00
163 654 616	116	\$428.00
163 654 617	116	\$518.00
163 654 632	116	\$302.00
163 654 633	116	\$323.00
163 654 634	116	\$341.00
163 654 635	116	\$430.00
163 654 636	116	\$538.00
163 654 637	116	\$651.00
163 654 662	116	\$286.00
163 654 663	116	\$307.00
163 654 664	116	\$323.00
163 654 665	116	\$408.00
163 654 666	116	\$511.00
163 654 667	116	\$618.00
163 657 712	116	\$267.00
163 657 713	116	\$290.00
163 657 714	116	\$309.00
163 657 715	116	\$388.00
163 657 716	116	\$486.00
163 657 717	116	\$589.00
163 657 732	116	\$330.00
163 657 733	116	\$356.00
163 657 734	116	\$377.00
163 657 735	116	\$479.00
163 657 736	116	\$596.00
163 657 737	116	\$722.00
163 657 762	116	\$314.00
163 657 763	116	\$340.00
163 657 764	116	\$359.00

Part Number	Page	List Price
163 657 765	116	\$457.00
163 657 766	116	\$569.00
163 657 767	116	\$689.00
163 684 612	117	\$412.00
163 684 613	117	\$434.00
163 684 614	117	\$478.00
163 684 615	117	\$598.00
163 684 616	117	\$733.00
163 684 617	117	\$904.00
163 684 632	117	\$508.00
163 684 633	117	\$534.00
163 684 634	117	\$588.00
163 684 635	117	\$735.00
163 684 636	117	\$902.00
163 684 637	117	\$1,090.00
163 684 662	117	\$482.00
163 684 663	117	\$507.00
163 684 664	117	\$558.00
163 684 665	117	\$698.00
163 684 666	117	\$857.00
163 684 667	117	\$1,035.00
163 687 712	117	\$440.00
163 687 713	117	\$467.00
163 687 714	117	\$514.00
163 687 715	117	\$647.00
163 687 716	117	\$791.00
163 687 717	117	\$975.00
163 687 732	117	\$536.00
163 687 733	117	\$567.00
163 687 734	117	\$624.00
163 687 735	117	\$784.00
163 687 736	117	\$960.00
163 687 737	117	\$1,161.00
163 687 762	117	\$510.00
163 687 763	117	\$540.00
163 687 764	117	\$594.00
163 687 765	117	\$747.00
163 687 766	117	\$915.00
163 687 767	117	\$1,106.00
167 317 024	31	\$841.00
167 317 027	31	\$3,368.00
167 317 039	31	\$1,237.00
167 317 042	31	\$5,013.00
167 317 325	31	\$1,183.00
167 317 340	31	\$1,647.00
167 317 523	31	\$567.00
167 317 538	31	\$886.00
167 481 090	13	\$4.00
167 481 091	13	\$4.00
167 481 092	13	\$6.00
167 481 093	13	\$6.00

Part Number	Page	List Price
167 481 145	13	\$4.00
167 481 146	13	\$4.00
167 481 147	13	\$6.00
167 481 148	13	\$6.00
167 481 150	13	\$3.00
167 481 151	13	\$4.00
167 481 152	13	\$8.00
167 481 153	13	\$8.00
167 481 155	13	\$4.00
167 481 156	13	\$4.00
167 481 157	13	\$6.00
167 481 158	13	\$6.00
167 481 160	13	\$3.00
167 481 161	13	\$4.00
167 481 162	13	\$6.00
167 481 163	13	\$6.00
167 481 570	13	\$3.00
167 481 571	13	\$3.00
167 481 572	13	\$5.00
167 481 573	13	\$5.00
167 482 479	17	\$3.00
167 482 480	17	\$3.00
167 482 481	17	\$3.00
167 482 482	17	\$3.00
167 482 626	7	\$58.00
167 482 627	7	\$61.00
167 482 628	7	\$74.00
167 482 629	7	\$79.00
167 482 630	7	\$107.00
167 482 631	7	\$123.00
167 482 635	7	\$58.00
167 482 636	7	\$61.00
167 482 637	7	\$74.00
167 482 638	7	\$79.00
167 482 639	7	\$107.00
167 482 640	7	\$123.00
167 482 653	7	\$200.00
167 482 654	7	\$206.00
167 482 655	7	\$219.00
167 482 656	7	\$222.00
167 482 657	7	\$255.00
167 482 658	7	\$271.00
167 482 662	7	\$200.00
167 482 663	7	\$206.00
167 482 664	7	\$219.00
167 482 665	7	\$222.00
167 482 666	7	\$255.00
167 482 667	7	\$271.00
167 482 680	7	\$4.00
167 482 681	7	\$4.00
167 482 682	7	\$6.00

Part Number	Page	List Price
167 482 683	7	\$8.00
167 482 684	7	\$30.00
167 482 685	7	\$41.00
167 482 712	9	\$4.00
167 482 713	9	\$4.00
167 482 714	9	\$5.00
167 482 715	9	\$8.00
167 482 716	9	\$14.00
167 482 717	9	\$22.00
167 482 718	9	\$54.00
167 482 719	9	\$66.00
167 482 720	9	\$79.00
167 482 900	10	\$2.00
167 482 901	10	\$3.00
167 482 902	10	\$3.00
167 482 903	10	\$4.00
167 482 904	10	\$5.00
167 482 905	10	\$6.00
167 482 906	10	\$9.00
167 482 907	10	\$27.00
167 482 908	10	\$32.00
167 482 909	10	\$42.00
167 482 945	10	\$4.00
167 482 946	10	\$5.00
167 482 947	10	\$6.00
167 482 948	10	\$8.00
167 482 949	10	\$9.00
167 482 950	10	\$15.00
167 482 951	10	\$42.00
167 482 952	10	\$49.00
167 482 953	10	\$60.00
167 482 966	10	\$15.00
167 482 967	10	\$16.00
167 482 968	10	\$18.00
167 482 969	10	\$21.00
167 482 970	10	\$26.00
167 482 971	10	\$29.00
167 482 972	10	\$35.00
167 483 342	39	\$44.00
167 483 343	39	\$48.00
167 483 344	39	\$52.00
167 483 345	39	\$63.00
167 483 346	39	\$77.00
167 483 347	39	\$98.00
167 483 419	4	\$131.00
167 483 421	4	\$139.00
167 483 424	4	\$185.00
167 483 522	39	\$50.00
167 483 523	39	\$60.00
167 483 524	39	\$63.00
167 483 525	39	\$74.00

Part Number	Page	List Price
167 483 526	39	\$91.00
167 483 527	39	\$114.00
167 483 882	39	\$44.00
167 483 883	39	\$48.00
167 483 884	39	\$52.00
167 483 885	39	\$63.00
167 483 886	39	\$77.00
167 483 887	39	\$98.00
167 484 076	8	\$4.00
167 484 077	8	\$4.00
167 484 078	8	\$5.00
167 484 079	8	\$5.00
167 484 080	8	\$6.00
167 484 081	8	\$7.00
167 484 082	8	\$19.00
167 484 083	8	\$19.00
167 484 084	8	\$26.00
167 484 088	8	\$3.00
167 484 089	8	\$3.00
167 484 090	8	\$4.00
167 484 091	8	\$4.00
167 484 092	8	\$5.00
167 484 093	8	\$6.00
167 484 094	8	\$19.00
167 484 095	8	\$19.00
167 484 096	8	\$26.00
167 484 100	8	\$16.00
167 484 101	8	\$18.00
167 484 102	8	\$19.00
167 484 103	8	\$21.00
167 484 104	8	\$24.00
167 484 105	8	\$26.00
167 484 110	7	\$3.00
167 484 111	7	\$4.00
167 484 125	8	\$43.00
167 484 126	8	\$45.00
167 484 127	8	\$53.00
167 484 128	8	\$59.00
167 484 129	8	\$73.00
167 484 130	8	\$101.00
167 484 131	8	\$240.00
167 484 132	8	\$300.00
167 484 133	8	\$362.00
167 484 135	8	\$50.00
167 484 136	8	\$59.00
167 484 137	8	\$66.00
167 484 138	8	\$79.00
167 484 139	8	\$96.00
167 484 140	8	\$141.00
167 484 141	8	\$314.00
167 484 142	8	\$391.00

Part Number	Page	List Price
167 484 143	8	\$469.00
167 484 376	19	\$14.00
167 484 377	19	\$14.00
167 484 378	19	\$15.00
167 484 379	19	\$16.00
167 484 380	19	\$20.00
167 484 381	19	\$21.00
167 484 442	19	\$42.00
167 484 443	19	\$44.00
167 484 444	19	\$48.00
167 484 445	19	\$54.00
167 484 446	19	\$59.00
167 484 447	19	\$65.00
167 484 488	19	\$11.00
167 484 489	19	\$11.00
167 484 490	19	\$14.00
167 484 491	19	\$15.00
167 484 492	19	\$16.00
167 484 493	19	\$20.00
167 484 542	19	\$42.00
167 484 543	19	\$44.00
167 484 544	19	\$48.00
167 484 545	19	\$54.00
167 484 546	19	\$59.00
167 484 547	19	\$65.00
167 484 576	19	\$14.00
167 484 577	19	\$14.00
167 484 578	19	\$15.00
167 484 579	19	\$16.00
167 484 580	19	\$20.00
167 484 581	19	\$21.00
167 484 588	19	\$11.00
167 484 589	19	\$11.00
167 484 590	19	\$14.00
167 484 591	19	\$15.00
167 484 592	19	\$16.00
167 484 593	19	\$20.00
167 484 642	17	\$42.00
167 484 643	17	\$44.00
167 484 644	17	\$48.00
167 484 645	17	\$54.00
167 484 646	17	\$59.00
167 484 647	17	\$65.00
167 484 688	17	\$11.00
167 484 689	17	\$11.00
167 484 690	17	\$14.00
167 484 691	17	\$15.00
167 484 692	17	\$16.00
167 484 693	17	\$20.00
167 484 742	17	\$42.00
167 484 743	17	\$44.00

Part Number	Page	List Price
167 484 744	17	\$48.00
167 484 745	17	\$54.00
167 484 746	17	\$59.00
167 484 747	17	\$65.00
167 484 788	17	\$11.00
167 484 789	17	\$11.00
167 484 790	17	\$14.00
167 484 791	17	\$15.00
167 484 792	17	\$16.00
167 484 793	17	\$20.00
167 484 882	18	\$58.00
167 484 883	18	\$65.00
167 484 884	18	\$68.00
167 484 885	18	\$72.00
167 484 886	18	\$80.00
167 484 887	18	\$87.00
167 484 892	18	\$58.00
167 484 893	18	\$68.00
167 484 894	18	\$72.00
167 484 895	18	\$75.00
167 484 896	18	\$87.00
167 484 897	18	\$88.00
167 484 902	18	\$58.00
167 484 903	18	\$65.00
167 484 904	18	\$68.00
167 484 905	18	\$72.00
167 484 906	18	\$80.00
167 484 907	18	\$87.00
167 484 912	18	\$58.00
167 484 913	18	\$68.00
167 484 914	18	\$72.00
167 484 915	18	\$75.00
167 484 916	18	\$87.00
167 484 917	18	\$88.00
167 484 941	66	\$115.00
167 484 942	66	\$128.00
167 484 943	66	\$138.00
167 484 944	66	\$153.00
167 484 945	66	\$115.00
167 484 946	66	\$128.00
167 484 947	66	\$138.00
167 484 948	66	\$153.00
167 484 992	37	\$4.00
167 484 993	37	\$4.00
167 484 994	37	\$6.00
167 484 995	37	\$6.00
167 484 996	37	\$14.00
167 484 997	37	\$14.00
167 485 911	40	\$338.00
167 485 912	40	\$346.00
167 485 913	40	\$354.00

Part Number	Page	List Price
167 485 914	40	\$361.00
167 485 915	40	\$369.00
167 485 916	40	\$378.00
167 485 917	40	\$411.00
167 485 922	40	\$501.00
167 485 923	40	\$563.00
167 485 924	40	\$581.00
167 485 927	40	\$547.00
167 485 928	40	\$563.00
167 485 929	40	\$581.00
167 489 131	135	\$293.00
167 489 133	135	\$316.00
167 489 136	135	\$469.00
167 489 161	135	\$333.00
167 489 163	135	\$282.00
167 489 166	135	\$511.00
167 489 231	135	\$322.00
167 489 233	135	\$347.00
167 489 236	135	\$508.00
167 489 261	135	\$334.00
167 489 263	135	\$296.00
167 489 266	135	\$544.00
167 514 002	30	\$168.00
167 514 003	30	\$183.00
167 514 004	30	\$220.00
167 514 005	30	\$267.00
167 514 006	30	\$346.00
167 514 007	30	\$433.00
167 514 012	30	\$153.00
167 514 013	30	\$167.00
167 514 014	30	\$200.00
167 514 015	30	\$241.00
167 514 016	30	\$313.00
167 514 017	30	\$393.00
167 514 022	36	\$212.00
167 514 023	36	\$228.00
167 514 024	36	\$278.00
167 514 025	36	\$334.00
167 514 026	36	\$435.00
167 514 027	36	\$545.00
167 514 032	30	\$313.00
167 514 033	30	\$319.00
167 514 034	30	\$367.00
167 514 035	30	\$470.00
167 514 036	30	\$597.00
167 514 037	30	\$741.00
167 514 062	30	\$236.00
167 514 063	30	\$239.00
167 514 064	30	\$275.00
167 514 065	30	\$353.00
167 514 066	30	\$447.00

Part Number	Page	List Price
167 514 067	30	\$556.00
167 514 072	36	\$435.00
167 514 073	36	\$443.00
167 514 074	36	\$509.00
167 514 075	36	\$655.00
167 514 076	36	\$827.00
167 514 077	36	\$1,030.00
167 514 102	30	\$200.00
167 514 103	30	\$211.00
167 514 104	30	\$256.00
167 514 105	30	\$312.00
167 514 106	30	\$405.00
167 514 107	30	\$504.00
167 514 112	30	\$182.00
167 514 113	30	\$191.00
167 514 114	30	\$234.00
167 514 115	30	\$285.00
167 514 116	30	\$367.00
167 514 117	30	\$460.00
167 514 122	36	\$253.00
167 514 123	36	\$264.00
167 514 124	36	\$321.00
167 514 125	36	\$393.00
167 514 126	36	\$509.00
167 514 127	36	\$638.00
167 514 132	30	\$365.00
167 514 133	30	\$367.00
167 514 134	30	\$429.00
167 514 135	30	\$556.00
167 514 136	30	\$699.00
167 514 137	30	\$871.00
167 514 162	30	\$310.00
167 514 163	30	\$312.00
167 514 164	30	\$365.00
167 514 165	30	\$471.00
167 514 166	30	\$595.00
167 514 167	30	\$740.00
167 514 172	36	\$492.00
167 514 173	36	\$509.00
167 514 174	36	\$567.00
167 514 175	36	\$605.00
167 514 176	36	\$942.00
167 514 177	36	\$1,160.00
167 515 002	30	\$125.00
167 515 003	30	\$140.00
167 515 004	30	\$178.00
167 515 005	30	\$214.00
167 515 006	30	\$275.00
167 515 007	30	\$348.00
167 515 012	30	\$115.00
167 515 013	30	\$128.00

Part Number	Page	List Price
167 515 014	30	\$164.00
167 515 015	30	\$194.00
167 515 016	30	\$251.00
167 515 017	30	\$315.00
167 515 032	30	\$237.00
167 515 033	30	\$247.00
167 515 034	30	\$296.00
167 515 035	30	\$377.00
167 515 036	30	\$475.00
167 515 037	30	\$595.00
167 515 062	30	\$176.00
167 515 063	30	\$187.00
167 515 064	30	\$222.00
167 515 065	30	\$284.00
167 515 066	30	\$357.00
167 515 067	30	\$446.00
167 515 102	30	\$151.00
167 515 103	30	\$170.00
167 515 104	30	\$214.00
167 515 105	30	\$256.00
167 515 106	30	\$332.00
167 515 107	30	\$415.00
167 515 112	30	\$138.00
167 515 113	30	\$154.00
167 515 114	30	\$194.00
167 515 115	30	\$234.00
167 515 116	30	\$301.00
167 515 117	30	\$377.00
167 515 122	36	\$193.00
167 515 123	36	\$214.00
167 515 124	36	\$270.00
167 515 125	36	\$321.00
167 515 126	36	\$414.00
167 515 127	36	\$492.00
167 515 132	30	\$265.00
167 515 133	30	\$297.00
167 515 134	30	\$357.00
167 515 135	30	\$457.00
167 515 136	30	\$567.00
167 515 137	30	\$711.00
167 515 162	30	\$198.00
167 515 163	30	\$223.00
167 515 164	30	\$269.00
167 515 165	30	\$342.00
167 515 166	30	\$425.00
167 515 167	30	\$533.00
167 515 172	36	\$329.00
167 515 173	36	\$412.00
167 515 174	36	\$495.00
167 515 175	36	\$622.00
167 515 176	36	\$707.00

Part Number	Page	List Price
167 515 177	36	\$988.00
167 517 712	31	\$188.00
167 517 713	31	\$192.00
167 517 714	31	\$256.00
167 517 715	31	\$296.00
167 517 716	31	\$393.00
167 517 717	31	\$498.00
167 517 732	31	\$320.00
167 517 733	31	\$373.00
167 517 734	31	\$446.00
167 517 735	31	\$573.00
167 517 736	31	\$703.00
167 517 737	31	\$895.00
167 519 101	31	\$431.00
167 519 103	31	\$435.00
167 519 104	31	\$442.00
167 519 107	31	\$443.00
167 519 108	31	\$450.00
167 519 109	31	\$454.00
167 519 112	31	\$462.00
167 519 118	31	\$531.00
167 519 119	31	\$613.00
167 519 120	31	\$636.00
167 519 125	31	\$691.00
167 519 126	31	\$720.00
167 519 127	31	\$760.00
167 519 301	31	\$697.00
167 519 303	31	\$703.00
167 519 304	31	\$711.00
167 519 307	31	\$719.00
167 519 308	31	\$725.00
167 519 309	31	\$733.00
167 519 312	31	\$746.00
167 519 318	31	\$880.00
167 519 319	31	\$951.00
167 519 320	31	\$986.00
167 519 325	31	\$1,016.00
167 519 326	31	\$1,030.00
167 519 327	31	\$1,051.00
167 523 401	12	\$163.00
167 523 402	12	\$163.00
167 523 411	12	\$177.00
167 523 412	12	\$177.00
167 523 441	12	\$163.00
167 523 442	12	\$163.00
167 523 451	12	\$177.00
167 523 452	12	\$177.00
167 523 482	12	\$184.00
167 523 492	12	\$199.00
167 543 001	15	\$167.00
167 543 002	15	\$170.00

Part Number	Page	List Price
167 543 003	15	\$193.00
167 543 004	15	\$243.00
167 543 005	15	\$273.00
167 543 006	15	\$323.00
167 543 007	15	\$388.00
167 543 011	15	\$199.00
167 543 012	15	\$203.00
167 543 013	15	\$236.00
167 543 014	15	\$301.00
167 543 015	15	\$330.00
167 543 016	15	\$401.00
167 543 017	15	\$501.00
167 543 062	15	\$181.00
167 543 063	15	\$203.00
167 543 064	15	\$259.00
167 543 065	15	\$291.00
167 543 066	15	\$342.00
167 543 067	15	\$422.00
167 543 072	15	\$219.00
167 543 073	15	\$251.00
167 543 074	15	\$316.00
167 543 075	15	\$353.00
167 543 076	15	\$426.00
167 543 077	15	\$543.00
167 543 161	15	\$177.00
167 543 162	15	\$181.00
167 543 163	15	\$203.00
167 543 164	15	\$259.00
167 543 165	15	\$291.00
167 543 166	15	\$342.00
167 543 167	15	\$417.00
167 543 171	15	\$216.00
167 543 172	15	\$220.00
167 543 173	15	\$251.00
167 543 174	15	\$315.00
167 543 175	15	\$353.00
167 543 176	15	\$426.00
167 543 177	15	\$543.00
167 543 201	16	\$167.00
167 543 202	16	\$170.00
167 543 203	16	\$193.00
167 543 204	16	\$243.00
167 543 205	16	\$273.00
167 543 206	16	\$323.00
167 543 207	16	\$388.00
167 543 211	16	\$199.00
167 543 212	16	\$203.00
167 543 213	16	\$237.00
167 543 214	16	\$301.00
167 543 215	16	\$330.00
167 543 216	16	\$398.00

Part Number	Page	List Price
167 543 217	16	\$502.00
167 543 262	16	\$181.00
167 543 263	16	\$203.00
167 543 264	16	\$259.00
167 543 265	16	\$291.00
167 543 266	16	\$342.00
167 543 267	16	\$418.00
167 543 272	16	\$220.00
167 543 273	16	\$251.00
167 543 274	16	\$315.00
167 543 275	16	\$353.00
167 543 276	16	\$426.00
167 543 277	16	\$543.00
167 543 361	16	\$158.00
167 543 362	16	\$158.00
167 543 363	16	\$175.00
167 543 364	16	\$229.00
167 543 365	16	\$292.00
167 543 366	16	\$389.00
167 543 367	16	\$442.00
167 543 371	16	\$187.00
167 543 372	16	\$187.00
167 543 373	16	\$220.00
167 543 374	16	\$292.00
167 543 375	16	\$414.00
167 543 376	16	\$540.00
167 543 377	16	\$688.00
167 546 321	3	\$91.00
167 546 322	3	\$95.00
167 546 323	3	\$111.00
167 546 324	3	\$133.00
167 546 325	3	\$171.00
167 546 326	3	\$213.00
167 546 327	3	\$258.00
167 546 331	3	\$106.00
167 546 332	3	\$111.00
167 546 333	3	\$125.00
167 546 334	3	\$157.00
167 546 335	3	\$195.00
167 546 336	3	\$252.00
167 546 337	3	\$312.00
167 546 401	3	\$66.00
167 546 402	3	\$70.00
167 546 403	3	\$83.00
167 546 404	3	\$114.00
167 546 405	3	\$126.00
167 546 406	3	\$168.00
167 546 407	3	\$202.00
167 546 408	3	\$490.00
167 546 409	3	\$610.00
167 546 410	3	\$735.00

Part Number	Page	List Price
167 546 411	3	\$82.00
167 546 412	3	\$84.00
167 546 413	3	\$100.00
167 546 414	3	\$123.00
167 546 415	3	\$154.00
167 546 416	3	\$202.00
167 546 417	3	\$260.00
167 546 418	3	\$632.00
167 546 419	3	\$791.00
167 546 420	3	\$949.00
167 546 442	3	\$75.00
167 546 443	3	\$88.00
167 546 444	3	\$109.00
167 546 445	3	\$134.00
167 546 446	3	\$174.00
167 546 447	3	\$212.00
167 546 448	3	\$502.00
167 546 449	3	\$625.00
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167 546 452	3	\$89.00
167 546 453	3	\$104.00
167 546 454	3	\$132.00
167 546 455	3	\$160.00
167 546 456	3	\$213.00
167 546 457	3	\$272.00
167 546 458	3	\$610.00
167 546 459	3	\$762.00
167 546 460	3	\$930.00
167 546 582	3	\$144.00
167 546 583	3	\$155.00
167 546 584	3	\$191.00
167 546 585	3	\$261.00
167 546 586	3	\$291.00
167 546 587	3	\$364.00
167 546 588	3	\$718.00
167 546 589	3	\$906.00
167 546 590	3	\$1,092.00
167 546 592	3	\$160.00
167 546 593	3	\$181.00
167 546 594	3	\$219.00
167 546 595	3	\$276.00
167 546 596	3	\$327.00
167 546 597	3	\$393.00
167 546 598	3	\$862.00
167 546 599	3	\$1,078.00
167 546 600	3	\$1,293.00
167 546 601	5	\$74.00
167 546 602	5	\$75.00
167 546 603	5	\$88.00
167 546 604	5	\$109.00
167 546 605	5	\$134.00

Part Number	Page	List Price
167 546 606	5	\$174.00
167 546 607	5	\$212.00
167 546 608	5	\$502.00
167 546 609	5	\$625.00
167 546 610	5	\$745.00
167 546 611	5	\$90.00
167 546 612	5	\$89.00
167 546 613	5	\$104.00
167 546 614	5	\$132.00
167 546 615	5	\$160.00
167 546 616	5	\$213.00
167 546 617	5	\$267.00
167 546 618	5	\$610.00
167 546 619	5	\$762.00
167 546 620	5	\$912.00
167 546 662	5	\$99.00
167 546 663	5	\$121.00
167 546 664	5	\$147.00
167 546 665	5	\$199.00
167 546 666	5	\$222.00
167 546 667	5	\$273.00
167 546 668	5	\$548.00
167 546 669	5	\$680.00
167 546 670	5	\$816.00
167 546 672	5	\$119.00
167 546 673	5	\$142.00
167 546 674	5	\$175.00
167 546 675	5	\$212.00
167 546 676	5	\$270.00
167 546 677	5	\$350.00
167 546 678	5	\$670.00
167 546 679	5	\$835.00
167 546 680	5	\$1,003.00
167 561 001	42	\$67.00
167 561 002	42	\$74.00
167 561 003	42	\$81.00
167 561 004	42	\$99.00
167 561 005	42	\$117.00
167 561 006	42	\$140.00
167 561 007	42	\$207.00
167 561 008	42	\$439.00
167 561 009	42	\$549.00
167 561 010	42	\$1,031.00
167 561 011	42	\$74.00
167 561 012	42	\$81.00
167 561 013	42	\$92.00
167 561 014	42	\$110.00
167 561 015	42	\$128.00
167 561 016	42	\$164.00
167 561 017	42	\$253.00
167 561 018	42	\$527.00

Part Number	Page	List Price
167 561 019	42	\$659.00
167 561 020	42	\$1,065.00
167 561 082	42	\$78.00
167 561 083	42	\$81.00
167 561 084	42	\$99.00
167 561 085	42	\$117.00
167 561 086	42	\$145.00
167 561 087	42	\$227.00
167 561 088	42	\$495.00
167 561 089	42	\$620.00
167 561 090	42	\$1,031.00
167 561 092	42	\$82.00
167 561 093	42	\$93.00
167 561 094	42	\$110.00
167 561 095	42	\$128.00
167 561 096	42	\$164.00
167 561 097	42	\$253.00
167 561 098	42	\$595.00
167 561 099	42	\$744.00
167 561 100	42	\$1,065.00
167 561 101	42	\$78.00
167 561 102	42	\$78.00
167 561 103	42	\$92.00
167 561 104	42	\$110.00
167 561 105	42	\$117.00
167 561 106	42	\$161.00
167 561 107	42	\$239.00
167561111	42	\$81.00
167561112	42	\$81.00
167561113	42	\$99.00
167561114	42	\$117.00
167561115	42	\$128.00
167561116	42	\$182.00
167561117	42	\$280.00
167 561 201	43	\$83.00
167 561 202	43	\$83.00
167 561 203	43	\$110.00
167 561 204	43	\$128.00
167 561 205	43	\$145.00
167 561 206	43	\$172.00
167 561 207	43	\$280.00
167 561 208	43	\$527.00
167 561 209	43	\$659.00
167 561 210	43	\$1,187.00
167 561 211	43	\$93.00
167 561 212	43	\$93.00
167 561 213	43	\$117.00
167 561 214	43	\$145.00
167 561 215	43	\$164.00
167 561 216	43	\$192.00
167 561 217	43	\$309.00

Part Number	Page	List Price
167 561 218	43	\$705.00
167 561 219	43	\$882.00
167 561 220	43	\$1,225.00
167 561 242	43	\$97.00
167 561 243	43	\$110.00
167 561 244	43	\$127.00
167 561 245	43	\$145.00
167 561 246	43	\$182.00
167 561 247	43	\$227.00
167 561 248	43	\$595.00
167 561 249	43	\$744.00
167 561 250	43	\$1,194.00
167 561 252	43	\$103.00
167 561 253	43	\$119.00
167 561 254	43	\$145.00
167 561 255	43	\$164.00
167 561 256	43	\$200.00
167 561 257	43	\$254.00
167 561 258	43	\$714.00
167 561 259	43	\$892.00
167 561 260	43	\$1,230.00
167 562 001	44	\$109.00
167 562 002	44	\$109.00
167 562 003	44	\$116.00
167 562 004	44	\$130.00
167 562 005	44	\$153.00
167 562 006	44	\$176.00
167 562 007	44	\$258.00
167 562 008	44	\$515.00
167 562 009	44	\$643.00
167 562 010	44	\$1,444.00
167 562 011	44	\$129.00
167 562 012	44	\$129.00
167 562 013	44	\$137.00
167 562 014	44	\$151.00
167 562 015	44	\$179.00
167 562 016	44	\$206.00
167 562 017	44	\$302.00
167 562 018	44	\$602.00
167 562 019	44	\$752.00
167 562 020	44	\$1,490.00
167 562 082	44	\$121.00
167 562 083	44	\$129.00
167 562 084	44	\$141.00
167 562 085	44	\$168.00
167 562 086	44	\$191.00
167 562 087	44	\$274.00
167 562 088	44	\$534.00
167 562 089	44	\$695.00
167 562 090	44	\$1,444.00
167 562 092	44	\$142.00

Part Number	Page	List Price
167 562 093	44	\$150.00
167 562 094	44	\$168.00
167 562 095	44	\$198.00
167 562 096	44	\$224.00
167 562 097	44	\$324.00
167 562 098	44	\$632.00
167 562 099	44	\$819.00
167 562 100	44	\$1,490.00
167 562 101	44	\$123.00
167 562 102	44	\$123.00
167 562 103	44	\$132.00
167 562 104	44	\$146.00
167 562 105	44	\$174.00
167 562 106	44	\$199.00
167 562 107	44	\$289.00
167 562 111	44	\$145.00
167 562 112	44	\$145.00
167 562 113	44	\$155.00
167 562 114	44	\$171.00
167 562 115	44	\$204.00
167 562 116	44	\$233.00
167 562 117	44	\$341.00
167 562 201	45	\$129.00
167 562 202	45	\$129.00
167 562 203	45	\$137.00
167 562 204	45	\$151.00
167 562 205	45	\$179.00
167 562 206	45	\$206.00
167 562 207	45	\$302.00
167 562 208	45	\$602.00
167 562 209	45	\$752.00
167 562 210	45	\$1,661.00
167 562 211	45	\$140.00
167 562 212	45	\$140.00
167 562 213	45	\$162.00
167 562 214	45	\$174.00
167 562 215	45	\$213.00
167 562 216	45	\$259.00
167 562 217	45	\$390.00
167 562 218	45	\$780.00
167 562 219	45	\$975.00
167 562 220	45	\$1,714.00
167 562 242	45	\$142.00
167 562 243	45	\$152.00
167 562 244	45	\$169.00
167 562 245	45	\$201.00
167 562 246	45	\$229.00
167 562 247	45	\$335.00
167 562 248	45	\$671.00
167 562 249	45	\$838.00
167 562 250	45	\$1,673.00

Part Number	Page	List Price
167 562 252	45	\$169.00
167 562 253	45	\$179.00
167 562 254	45	\$199.00
167 562 255	45	\$237.00
167 562 256	45	\$270.00
167 562 257	45	\$394.00
167 562 258	45	\$789.00
167 562 259	45	\$987.00
167 562 260	45	\$1,729.00
167 567 002	21	\$293.00
167 567 003	21	\$326.00
167 567 004	21	\$367.00
167 567 005	21	\$444.00
167 567 006	21	\$633.00
167 567 007	21	\$633.00
167 567 008	21	\$816.00
167 567 009	21	\$2,808.00
167 567 010	21	\$3,478.00
167 567 022	21	\$368.00
167 567 023	21	\$398.00
167 567 024	21	\$440.00
167 567 025	21	\$561.00
167 567 026	21	\$820.00
167 567 027	21	\$820.00
167 567 028	21	\$957.00
167 567 029	21	\$3,273.00
167 567 030	21	\$4,073.00
167 567 042	21	\$776.00
167 567 043	21	\$818.00
167 567 044	21	\$856.00
167 567 045	21	\$935.00
167 567 046	21	\$1,011.00
167 567 047	21	\$1,011.00
167 567 048	21	\$1,162.00
167 567 049	21	\$3,080.00
167 567 050	21	\$3,750.00
167 567 051	21	\$8,199.00
167 567 052	21	\$13,263.00
167 567 053	21	\$15,327.00
167 567 054	21	\$19,095.00
167 567 055	21	\$25,003.00
167 567 062	21	\$832.00
167 567 063	21	\$866.00
167 567 064	21	\$935.00
167 567 065	21	\$1,020.00
167 567 066	21	\$1,257.00
167 567 067	21	\$1,257.00
167 567 068	21	\$1,457.00
167 567 069	21	\$3,558.00
167 567 070	21	\$4,346.00
167 567 071	21	\$11,695.00

Part Number	Page	List Price
167 567 072	21	\$13,866.00
167 567 073	21	\$16,843.00
167 567 074	21	\$22,101.00
167 567 075	21	\$28,116.00
167 567 802	21	\$305.00
167 567 803	21	\$327.00
167 567 804	21	\$365.00
167 567 805	21	\$441.00
167 567 806	21	\$631.00
167 567 807	21	\$631.00
167 567 808	21	\$812.00
167 567 809	21	\$2,668.00
167 567 810	21	\$3,375.00
167 567 811	21	\$8,241.00
167 567 812	21	\$12,452.00
167 567 813	21	\$15,146.00
167 567 814	21	\$18,913.00
167 567 815	21	\$24,819.00
167 567 822	21	\$394.00
167 567 823	21	\$422.00
167 567 824	21	\$467.00
167 567 825	21	\$567.00
167 567 826	21	\$873.00
167 567 827	21	\$873.00
167 567 828	21	\$1,020.00
167 567 829	21	\$3,153.00
167 567 830	21	\$4,006.00
167 567 831	21	\$11,839.00
167 567 832	21	\$12,235.00
167 567 833	21	\$16,662.00
167 567 834	21	\$21,920.00
167 567 835	21	\$27,936.00
167 578 142	24	\$1,147.00
167 578 143	24	\$1,312.00
167 578 144	24	\$1,405.00
167 578 145	24	\$1,698.00
167 578 146	24	\$2,364.00
167 578 147	24	\$2,364.00
167 578 148	24	\$3,052.00
167 578 149	24	\$4,607.00
167 578 150	24	\$5,585.00
167 578 162	24	\$1,225.00
167 578 163	24	\$1,465.00
167 578 164	24	\$1,499.00
167 578 165	24	\$1,796.00
167 578 166	24	\$3,054.00
167 578 167	24	\$3,054.00
167 578 168	24	\$3,334.00
167 578 169	24	\$5,557.00
167 578 170	24	\$7,040.00
167 582 002	133	\$580.00

Part Number	Page	List Price
167 582 003	133	\$765.00
167 582 004	133	\$885.00
167 582 005	133	\$1,027.00
167 582 006	133	\$1,054.00
167 582 007	133	\$1,290.00
167 582 012	133	\$648.00
167 582 013	133	\$808.00
167 582 014	133	\$938.00
167 582 015	133	\$1,082.00
167 582 016	133	\$1,122.00
167 582 017	133	\$1,362.00
167 582 102	133	\$725.00
167 582 103	133	\$957.00
167 582 104	133	\$1,107.00
167 582 105	133	\$1,284.00
167 582 106	133	\$1,318.00
167 582 107	133	\$1,613.00
167 582 112	133	\$764.00
167 582 113	133	\$1,002.00
167 582 114	133	\$1,155.00
167 582 115	133	\$1,335.00
167 582 116	133	\$1,386.00
167 582 117	133	\$1,702.00
167 582 502	133	\$797.00
167 582 503	133	\$1,052.00
167 582 504	133	\$1,217.00
167 582 505	133	\$1,412.00
167 582 506	133	\$1,450.00
167 582 507	133	\$1,775.00
167 582 512	133	\$804.00
167 582 513	133	\$1,093.00
167 582 514	133	\$1,260.00
167 582 515	133	\$1,460.00
167 582 516	133	\$1,515.00
167 582 517	133	\$1,872.00
167 586 002	134	\$445.00
167 586 003	134	\$498.00
167 586 004	134	\$568.00
167 586 005	134	\$625.00
167 586 006	134	\$684.00
167 586 007	134	\$872.00
167 586 012	134	\$487.00
167 586 013	134	\$547.00
167 586 014	134	\$622.00
167 586 015	134	\$700.00
167 586 016	134	\$745.00
167 586 017	134	\$937.00
167 586 102	134	\$525.00
167 586 103	134	\$605.00
167 586 104	134	\$710.00
167 586 105	134	\$781.00

Part Number	Page	List Price
167 586 106	134	\$855.00
167 586 107	134	\$1,090.00
167 586 112	134	\$567.00
167 586 113	134	\$654.00
167 586 114	134	\$764.00
167 586 115	134	\$839.00
167 586 116	134	\$916.00
167 586 117	134	\$1,155.00
167 586 502	134	\$578.00
167 586 503	134	\$666.00
167 586 504	134	\$781.00
167 586 505	134	\$859.00
167 586 506	134	\$940.00
167 586 507	134	\$1,199.00
167 586 512	134	\$620.00
167 586 513	134	\$715.00
167 586 514	134	\$835.00
167 586 515	134	\$917.00
167 586 516	134	\$1,001.00
167 586 517	134	\$1,264.00
167 591 001	46	\$143.00
167 591 002	46	\$143.00
167 591 003	46	\$178.00
167 591 004	46	\$225.00
167 591 005	46	\$268.00
167 591 006	46	\$379.00
167 591 007	46	\$556.00
167 591 008	46	\$890.00
167 591 009	46	\$1,112.00
167 591 010	46	\$1,335.00
167 591 011	46	\$173.00
167 591 012	46	\$173.00
167 591 013	46	\$213.00
167 591 014	46	\$270.00
167 591 015	46	\$320.00
167 591 016	46	\$454.00
167 591 017	46	\$667.00
167 591 018	46	\$1,068.00
167 591 019	46	\$1,335.00
167 591 020	46	\$1,602.00
167 591 041	46	\$143.00
167 591 042	46	\$143.00
167 591 043	46	\$178.00
167 591 044	46	\$225.00
167 591 045	46	\$268.00
167 591 046	46	\$379.00
167 591 047	46	\$556.00
167 591 048	46	\$890.00
167 591 049	46	\$1,112.00
167 591 050	46	\$1,335.00
167 591 051	46	\$173.00

Part Number	Page	List Price
167 591 052	46	\$173.00
167 591 053	46	\$213.00
167 591 054	46	\$270.00
167 591 055	46	\$320.00
167 591 056	46	\$454.00
167 591 057	46	\$667.00
167 591 058	46	\$1,068.00
167 591 059	46	\$1,335.00
167 591 060	46	\$1,602.00
167 595 001	47	\$166.00
167 595 002	47	\$166.00
167 595 003	47	\$207.00
167 595 004	47	\$261.00
167 595 005	47	\$311.00
167 595 006	47	\$447.00
167 595 007	47	\$651.00
167 595 008	47	\$1,042.00
167 595 009	47	\$1,304.00
167 595 010	47	\$1,564.00
167 595 011	47	\$194.00
167 595 012	47	\$194.00
167 595 013	47	\$243.00
167 595 014	47	\$307.00
167 595 015	47	\$364.00
167 595 016	47	\$522.00
167 595 017	47	\$763.00
167 595 018	47	\$1,222.00
167 595 019	47	\$1,526.00
167 595 020	47	\$1,831.00
167 595 041	47	\$166.00
167 595 042	47	\$166.00
167 595 043	47	\$207.00
167 595 044	47	\$261.00
167 595 045	47	\$311.00
167 595 046	47	\$447.00
167 595 047	47	\$651.00
167 595 048	47	\$1,042.00
167 595 049	47	\$1,304.00
167 595 050	47	\$1,564.00
167 595 051	47	\$194.00
167 595 052	47	\$194.00
167 595 053	47	\$243.00
167 595 054	47	\$307.00
167 595 055	47	\$364.00
167 595 056	47	\$522.00
167 595 057	47	\$763.00
167 595 058	47	\$1,222.00
167 595 059	47	\$1,526.00
167 595 060	47	\$1,831.00
167 624 012	118	\$317.00
167 624 013	118	\$365.00

Part Number	Page	List Price
167 624 014	118	\$413.00
167 624 015	118	\$473.00
167 624 016	118	\$578.00
167 624 017	118	\$711.00
167 624 032	118	\$404.00
167 624 033	118	\$431.00
167 624 034	118	\$458.00
167 624 035	118	\$571.00
167 624 036	118	\$685.00
167 624 037	118	\$877.00
167 624 112	118	\$336.00
167 624 113	118	\$389.00
167 624 114	118	\$426.00
167 624 115	118	\$489.00
167 624 116	118	\$582.00
167 624 117	118	\$747.00
167 624 132	118	\$450.00
167 624 133	118	\$467.00
167 624 134	118	\$542.00
167 624 135	118	\$650.00
167 624 136	118	\$792.00
167 624 137	118	\$1,008.00
167 625 012	118	\$307.00
167 625 013	118	\$358.00
167 625 014	118	\$410.00
167 625 015	118	\$473.00
167 625 016	118	\$559.00
167 625 017	118	\$699.00
167 625 032	118	\$450.00
167 625 033	118	\$467.00
167 625 034	118	\$542.00
167 625 035	118	\$650.00
167 625 036	118	\$792.00
167 625 037	118	\$1,008.00
167 625 112	118	\$307.00
167 625 113	118	\$358.00
167 625 114	118	\$410.00
167 625 115	118	\$467.00
167 625 116	118	\$564.00
167 625 117	118	\$705.00
167 625 132	118	\$450.00
167 625 133	118	\$467.00
167 625 134	118	\$542.00
167 625 135	118	\$650.00
167 625 136	118	\$792.00
167 625 137	118	\$1,008.00
167 627 712	118	\$362.00
167 627 713	118	\$434.00
167 627 714	118	\$499.00
167 627 715	118	\$586.00
167 627 716	118	\$700.00

Part Number	Page	List Price
167 627 717	118	\$889.00
167 627 732	118	\$505.00
167 627 733	118	\$543.00
167 627 734	118	\$631.00
167 627 735	118	\$769.00
167 627 736	118	\$928.00
167 627 737	118	\$1,192.00
167 639 341	122	\$1,189.00
167 639 342	122	\$1,216.00
167 639 343	122	\$1,224.00
167 639 345	122	\$1,543.00
167 639 346	122	\$1,812.00
167 639 351	122	\$1,201.00
167 639 352	122	\$1,332.00
167 639 353	122	\$1,353.00
167 639 355	122	\$1,670.00
167 639 356	122	\$2,051.00
167 644 012	119	\$234.00
167 644 013	119	\$252.00
167 644 014	119	\$265.00
167 644 015	119	\$336.00
167 644 016	119	\$421.00
167 644 017	119	\$508.00
167 644 032	119	\$389.00
167 644 033	119	\$404.00
167 644 034	119	\$421.00
167 644 035	119	\$582.00
167 644 036	119	\$699.00
167 644 037	119	\$853.00
167 644 112	119	\$219.00
167 644 113	119	\$237.00
167 644 114	119	\$247.00
167 644 115	119	\$313.00
167 644 116	119	\$394.00
167 644 117	119	\$475.00
167 644 132	119	\$389.00
167 644 133	119	\$404.00
167 644 134	119	\$480.00
167 644 135	119	\$589.00
167 644 136	119	\$729.00
167 644 137	119	\$644.00
167 645 012	119	\$221.00
167 645 013	119	\$237.00
167 645 014	119	\$262.00
167 645 015	119	\$316.00
167 645 016	119	\$398.00
167 645 017	119	\$481.00
167 645 032	119	\$341.00
167 645 033	119	\$372.00
167 645 034	119	\$404.00
167 645 035	119	\$497.00

Part Number	Page	List Price
167 645 036	119	\$621.00
167 645 037	119	\$853.00
167 645 112	119	\$241.00
167 645 113	119	\$258.00
167 645 114	119	\$272.00
167 645 115	119	\$340.00
167 645 116	119	\$428.00
167 645 117	119	\$517.00
167 645 132	119	\$310.00
167 645 133	119	\$404.00
167 645 134	119	\$450.00
167 645 135	119	\$503.00
167 645 136	119	\$621.00
167 645 137	119	\$853.00
167 647 712	119	\$296.00
167 647 713	119	\$334.00
167 647 714	119	\$361.00
167 647 715	119	\$459.00
167 647 716	119	\$564.00
167 647 717	119	\$701.00
167 647 732	119	\$365.00
167 647 733	119	\$480.00
167 647 734	119	\$539.00
167 647 735	119	\$622.00
167 647 736	119	\$757.00
167 647 737	119	\$1,037.00
167 654 012	120	\$234.00
167 654 013	120	\$252.00
167 654 014	120	\$265.00
167 654 015	120	\$336.00
167 654 016	120	\$421.00
167 654 017	120	\$508.00
167 654 032	120	\$389.00
167 654 033	120	\$404.00
167 654 034	120	\$421.00
167 654 035	120	\$582.00
167 654 036	120	\$699.00
167 654 037	120	\$853.00
167 654 112	120	\$219.00
167 654 113	120	\$237.00
167 654 114	120	\$247.00
167 654 115	120	\$313.00
167 654 116	120	\$394.00
167 654 117	120	\$475.00
167 654 132	120	\$389.00
167 654 133	120	\$404.00
167 654 134	120	\$480.00
167 654 135	120	\$589.00
167 654 136	120	\$729.00
167 654 137	120	\$703.00
167 655 012	120	\$216.00

Part Number	Page	List Price
167 655 013	120	\$233.00
167 655 014	120	\$245.00
167 655 015	120	\$310.00
167 655 016	120	\$390.00
167 655 017	120	\$472.00
167 655 032	120	\$341.00
167 655 033	120	\$372.00
167 655 034	120	\$404.00
167 655 035	120	\$497.00
167 655 036	120	\$621.00
167 655 037	120	\$853.00
167 655 112	120	\$241.00
167 655 113	120	\$258.00
167 655 114	120	\$272.00
167 655 115	120	\$340.00
167 655 116	120	\$428.00
167 655 117	120	\$517.00
167 655 132	120	\$310.00
167 655 133	120	\$404.00
167 655 134	120	\$450.00
167 655 135	120	\$503.00
167 655 136	120	\$621.00
167 655 137	120	\$853.00
167 657 712	120	\$296.00
167 657 713	120	\$334.00
167 657 714	120	\$361.00
167 657 715	120	\$459.00
167 657 716	120	\$564.00
167 657 717	120	\$701.00
167 657 732	120	\$365.00
167 657 733	120	\$480.00
167 657 734	120	\$539.00
167 657 735	120	\$622.00
167 657 736	120	\$757.00
167 657 737	120	\$1,037.00
167 684 012	121	\$397.00
167 684 013	121	\$421.00
167 684 014	121	\$446.00
167 684 015	121	\$561.00
167 684 016	121	\$702.00
167 684 017	121	\$856.00
167 684 032	121	\$510.00
167 684 033	121	\$540.00
167 684 034	121	\$578.00
167 684 035	121	\$725.00
167 684 036	121	\$905.00
167 684 037	121	\$1,104.00
167 684 112	121	\$385.00
167 684 113	121	\$409.00
167 684 114	121	\$436.00
167 684 115	121	\$545.00

Part Number	Page	List Price
167 684 116	121	\$682.00
167 684 117	121	\$834.00
167 684 132	121	\$501.00
167 684 133	121	\$534.00
167 684 134	121	\$564.00
167 684 135	121	\$712.00
167 684 136	121	\$892.00
167 684 137	121	\$1,088.00
167 685 012	121	\$392.00
167 685 013	121	\$412.00
167 685 014	121	\$444.00
167 685 015	121	\$558.00
167 685 016	121	\$696.00
167 685 017	121	\$848.00
167 685 032	121	\$473.00
167 685 033	121	\$501.00
167 685 034	121	\$534.00
167 685 035	121	\$672.00
167 685 036	121	\$837.00
167 685 037	121	\$1,024.00
167 685 112	121	\$401.00
167 685 113	121	\$423.00
167 685 114	121	\$450.00
167 685 115	121	\$564.00
167 685 116	121	\$709.00
167 685 117	121	\$863.00
167 685 132	121	\$520.00
167 685 133	121	\$554.00
167 685 134	121	\$587.00
167 685 135	121	\$739.00
167 685 136	121	\$923.00
167 685 137	121	\$1,125.00
167 687 712	121	\$456.00
167 687 713	121	\$499.00
167 687 714	121	\$539.00
167 687 715	121	\$680.00
167 687 716	121	\$845.00
167 687 717	121	\$1,047.00
167 687 732	121	\$575.00
167 687 733	121	\$630.00
167 687 734	121	\$676.00
167 687 735	121	\$855.00
167 687 736	121	\$1,059.00
167 687 737	121	\$1,309.00
167 689 101	122	\$775.00
167 689 103	122	\$775.00
167 689 104	122	\$775.00
167 689 107	122	\$853.00
167 689 108	122	\$853.00
167 689 109	122	\$853.00
167 689 112	122	\$930.00

Part Number	Page	List Price
167 689 118	122	\$1,008.00
167 689 119	122	\$1,008.00
167 689 120	122	\$1,008.00
167 689 125	122	\$1,163.00
167 689 126	122	\$1,163.00
167 689 127	122	\$1,163.00
167 689 301	122	\$853.00
167 689 303	122	\$853.00
167 689 304	122	\$853.00
167 689 307	122	\$930.00
167 689 308	122	\$930.00
167 689 309	122	\$930.00
167 689 312	122	\$1,008.00
167 689 318	122	\$1,087.00
167 689 319	122	\$1,087.00
167 689 320	122	\$1,087.00
167 689 325	122	\$1,240.00
167 689 326	122	\$1,240.00
167 689 327	122	\$1,240.00
168 480 260	10	\$32.00
168 480 261	10	\$33.00
168 480 262	10	\$33.00
168 480 263	10	\$38.00
168 480 264	10	\$40.00
168 480 265	10	\$40.00
168 480 462	39	\$64.00
168 480 463	39	\$71.00
168 480 464	39	\$78.00
168 480 465	39	\$92.00
168 480 466	39	\$111.00
168 480 467	39	\$143.00
168 480 601	40	\$493.00
168 480 602	40	\$507.00
168 480 603	40	\$516.00
168 480 604	40	\$527.00
168 480 605	40	\$539.00
168 480 606	40	\$551.00
168 480 607	40	\$602.00
168 480 611	40	\$732.00
168 480 612	40	\$823.00
168 480 613	40	\$848.00
168 480 616	40	\$800.00
168 480 617	40	\$823.00
168 480 618	40	\$848.00
168 515 112	32	\$158.00
168 515 113	32	\$174.00
168 515 114	32	\$213.00
168 515 115	32	\$269.00
168 515 116	32	\$332.00
168 515 117	32	\$414.00
168 515 132	32	\$280.00

Part Number	Page	List Price
168 515 133	32	\$301.00
168 515 134	32	\$360.00
168 515 135	32	\$466.00
168 515 136	32	\$600.00
168 515 137	32	\$714.00
168 519 101	32	\$523.00
168 519 103	32	\$533.00
168 519 104	32	\$543.00
168 519 107	32	\$543.00
168 519 108	32	\$549.00
168 519 109	32	\$556.00
168 519 112	32	\$568.00
168 519 118	32	\$662.00
168 519 119	32	\$719.00
168 519 120	32	\$746.00
168 519 125	32	\$777.00
168 519 126	32	\$777.00
168 519 127	32	\$792.00
168 519 301	32	\$746.00
168 519 303	32	\$763.00
168 519 304	32	\$769.00
168 519 307	32	\$777.00
168 519 308	32	\$783.00
168 519 309	32	\$792.00
168 519 312	32	\$811.00
168 519 318	32	\$951.00
168 519 319	32	\$1,034.00
168 519 320	32	\$1,062.00
168 519 325	32	\$1,100.00
168 519 326	32	\$1,121.00
168 519 327	32	\$1,135.00
168 625 112	123	\$406.00
168 625 113	123	\$437.00
168 625 114	123	\$467.00
168 625 115	123	\$588.00
168 625 116	123	\$647.00
168 625 117	123	\$780.00
168 625 132	123	\$497.00
168 625 133	123	\$513.00
168 625 134	123	\$574.00
168 625 135	123	\$750.00
168 625 136	123	\$840.00
168 625 137	123	\$1,008.00
168 629 101	123	\$812.00
168 629 103	123	\$812.00
168 629 104	123	\$812.00
168 629 107	123	\$886.00
168 629 108	123	\$886.00
168 629 109	123	\$886.00
168 629 112	123	\$960.00
168 629 118	123	\$1,035.00

Part Number	Page	List Price
168 629 119	123	\$1,035.00
168 629 120	123	\$1,035.00
168 629 125	123	\$1,181.00
168 629 126	123	\$1,181.00
168 629 127	123	\$1,181.00
168 629 301	123	\$886.00
168 629 303	123	\$886.00
168 629 304	123	\$886.00
168 629 307	123	\$960.00
168 629 308	123	\$960.00
168 629 309	123	\$960.00
168 629 312	123	\$960.00
168 629 318	123	\$1,035.00
168 629 319	123	\$1,035.00
168 629 320	123	\$1,035.00
168 629 325	123	\$1,181.00
168 629 326	123	\$1,181.00
168 629 327	123	\$1,181.00
168 645 112	123	\$284.00
168 645 113	123	\$337.00
168 645 114	123	\$354.00
168 645 115	123	\$459.00
168 645 116	123	\$531.00
168 645 117	123	\$564.00
168 645 132	123	\$370.00
168 645 133	123	\$425.00
168 645 134	123	\$444.00
168 645 135	123	\$602.00
168 645 136	123	\$709.00
168 645 137	123	\$778.00
168 655 112	123	\$284.00
168 655 113	123	\$337.00
168 655 114	123	\$354.00
168 655 115	123	\$459.00
168 655 116	123	\$531.00
168 655 117	123	\$564.00
168 655 132	123	\$370.00
168 655 133	123	\$425.00
168 655 134	123	\$444.00
168 655 135	123	\$602.00
168 655 136	123	\$709.00
168 655 137	123	\$778.00
175 317 009	33	\$3,545.00
175 317 012	33	\$9,695.00
175 317 054	34	\$3,582.00
175 317 057	34	\$12,416.00
175 317 340	33	\$5,513.00
175 317 355	34	\$5,490.00
175 317 538	33	\$1,873.00
175 317 568	34	\$2,030.00
175 482 937	9	\$12.00

Part Number	Page	List Price
175 482 938	9	\$23.00
175 482 939	9	\$29.00
175 482 940	9	\$45.00
175 482 941	9	\$59.00
175 482 942	9	\$97.00
175 483 025	10	\$15.00
175 483 026	10	\$16.00
175 483 027	10	\$20.00
175 483 028	10	\$23.00
175 483 029	10	\$35.00
175 483 030	10	\$54.00
175 483 031	10	\$85.00
175 483 048	10	\$31.00
175 483 049	10	\$36.00
175 483 050	10	\$41.00
175 483 051	10	\$45.00
175 483 052	10	\$73.00
175 483 053	10	\$96.00
175 483 058	10	\$19.00
175 483 059	10	\$19.00
175 483 060	10	\$20.00
175 483 061	10	\$36.00
175 483 062	10	\$59.00
175 483 063	10	\$69.00
175 483 064	10	\$90.00
175 483 275	8	\$128.00
175 483 276	8	\$147.00
175 483 277	8	\$176.00
175 483 278	8	\$214.00
175 483 279	8	\$276.00
175 483 280	8	\$409.00
175 483 281	8	\$955.00
175 483 282	8	\$1,195.00
175 483 283	8	\$1,433.00
175 483 379	4	\$137.00
175 483 381	4	\$183.00
175 483 384	4	\$421.00
175 483 642	18	\$222.00
175 483 643	18	\$258.00
175 483 644	18	\$270.00
175 483 645	18	\$289.00
175 483 646	18	\$335.00
175 483 647	18	\$348.00
175 483 652	18	\$222.00
175 483 653	18	\$258.00
175 483 654	18	\$270.00
175 483 655	18	\$289.00
175 483 656	18	\$335.00
175 483 657	18	\$348.00
175 483 682	39	\$190.00
175 483 683	39	\$215.00

Part Number	Page	List Price
175 483 684	39	\$233.00
175 483 685	39	\$290.00
175 483 686	39	\$361.00
175 483 687	39	\$475.00
175 483 692	39	\$160.00
175 483 693	39	\$180.00
175 483 694	39	\$196.00
175 483 695	39	\$244.00
175 483 696	39	\$303.00
175 483 697	39	\$397.00
175 483 742	39	\$160.00
175 483 743	39	\$180.00
175 483 744	39	\$196.00
175 483 745	39	\$244.00
175 483 746	39	\$303.00
175 483 747	39	\$397.00
175 523 411	12	\$354.00
175 523 412	12	\$376.00
175 523 492	12	\$514.00
175 543 011	16	\$400.00
175 543 012	16	\$422.00
175 543 013	16	\$509.00
175 543 014	16	\$666.00
175 543 015	16	\$777.00
175 543 016	16	\$1,015.00
175 543 017	16	\$1,422.00
175 543 052	16	\$465.00
175 543 053	16	\$567.00
175 543 054	16	\$742.00
175 543 055	16	\$902.00
175 543 056	16	\$1,190.00
175 543 057	16	\$1,552.00
175 543 071	16	\$451.00
175 543 072	16	\$465.00
175 543 073	16	\$567.00
175 543 074	16	\$742.00
175 543 075	16	\$902.00
175 543 076	16	\$1,190.00
175 543 077	16	\$1,552.00
175 543 111	16	\$400.00
175 543 112	16	\$422.00
175 543 113	16	\$509.00
175 543 114	16	\$666.00
175 543 115	16	\$777.00
175 543 116	16	\$1,015.00
175 543 117	16	\$1,422.00
175 543 152	16	\$465.00
175 543 153	16	\$567.00
175 543 154	16	\$742.00
175 543 155	16	\$902.00
175 543 156	16	\$1,190.00

Part Number	Page	List Price
175 543 157	16	\$1,552.00
175 543 171	16	\$451.00
175 543 172	16	\$465.00
175 543 173	16	\$567.00
175 543 174	16	\$742.00
175 543 175	16	\$902.00
175 543 176	16	\$1,190.00
175 543 177	16	\$1,552.00
175 546 272	4	\$267.00
175 546 273	4	\$320.00
175 546 274	4	\$422.00
175 546 275	4	\$567.00
175 546 276	4	\$769.00
175 546 277	4	\$1,074.00
175 546 278	4	\$2,593.00
175 546 279	4	\$3,229.00
175 546 280	4	\$3,875.00
175 546 331	4	\$261.00
175 546 332	4	\$276.00
175 546 333	4	\$327.00
175 546 334	4	\$422.00
175 546 335	4	\$567.00
175 546 336	4	\$742.00
175 546 337	4	\$1,030.00
175 546 411	4	\$210.00
175 546 412	4	\$225.00
175 546 413	4	\$276.00
175 546 414	4	\$363.00
175 546 415	4	\$465.00
175 546 416	4	\$682.00
175 546 417	4	\$943.00
175 546 418	4	\$2,593.00
175 546 419	4	\$3,229.00
175 546 420	4	\$3,875.00
175 546 592	4	\$323.00
175 546 593	4	\$423.00
175 546 594	4	\$492.00
175 546 595	4	\$615.00
175 546 596	4	\$852.00
175 546 597	4	\$1,160.00
175 546 691	5	\$208.00
175 546 692	5	\$221.00
175 546 693	5	\$273.00
175 546 694	5	\$354.00
175 546 695	5	\$460.00
175 546 696	5	\$668.00
175 546 697	5	\$930.00
175 546 752	5	\$268.00
175 546 753	5	\$318.00
175 546 754	5	\$411.00
175 546 755	5	\$557.00

Part Number	Page	List Price
175 546 756	5	\$754.00
175 546 757	5	\$1,053.00
175 561 011	43	\$377.00
175 561 012	43	\$381.00
175 561 013	43	\$470.00
175 561 014	43	\$550.00
175 561 015	43	\$908.00
175 561 016	43	\$982.00
175 561 017	43	\$1,646.00
175 561 018	43	\$3,812.00
175 561 019	43	\$4,765.00
175 561 020	43	\$5,719.00
175 561 092	43	\$432.00
175 561 093	43	\$521.00
175 561 094	43	\$600.00
175 561 095	43	\$1,002.00
175 561 096	43	\$1,069.00
175 561 097	43	\$1,770.00
175 561 098	43	\$4,276.00
175 561 099	43	\$5,344.00
175 561 100	43	\$6,412.00
175 561 211	43	\$443.00
175 561 212	43	\$452.00
175 561 213	43	\$561.00
175 561 214	43	\$650.00
175 561 215	43	\$1,063.00
175 561 216	43	\$1,160.00
175 561 217	43	\$1,951.00
175 561 218	43	\$4,432.00
175 561 219	43	\$5,541.00
175 561 220	43	\$6,649.00
175 561 272	43	\$509.00
175 561 273	43	\$606.00
175 561 274	43	\$710.00
175 561 275	43	\$1,181.00
175 561 276	43	\$1,257.00
175 561 277	43	\$2,066.00
175 561 278	43	\$4,085.00
175 561 279	43	\$5,106.00
175 561 280	43	\$6,126.00
175 562 011	44	\$437.00
175 562 012	44	\$441.00
175 562 013	44	\$542.00
175 562 014	44	\$636.00
175 562 015	44	\$1,038.00
175 562 016	44	\$1,123.00
175 562 017	44	\$1,888.00
175 562 092	44	\$496.00
175 562 093	44	\$608.00
175 562 094	44	\$713.00
175 562 095	44	\$1,166.00

Part Number	Page	List Price
175 562 096	44	\$1,262.00
175 562 097	44	\$2,118.00
175 562 211	45	\$521.00
175 562 212	45	\$561.00
175 562 213	45	\$647.00
175 562 214	45	\$757.00
175 562 215	45	\$1,241.00
175 562 216	45	\$1,342.00
175 562 217	45	\$2,258.00
175 562 218	45	\$4,560.00
175 562 219	45	\$5,699.00
175 562 220	45	\$6,838.00
175 562 272	45	\$593.00
175 562 273	45	\$729.00
175 562 274	45	\$854.00
175 562 275	45	\$1,401.00
175 562 276	45	\$1,514.00
175 562 277	45	\$2,546.00
175 562 278	45	\$5,142.00
175 562 279	45	\$6,428.00
175 562 280	45	\$7,712.00
175 567 002	22	\$957.00
175 567 003	22	\$1,097.00
175 567 004	22	\$1,331.00
175 567 005	22	\$1,584.00
175 567 006	22	\$2,472.00
175 567 007	22	\$2,472.00
175 567 008	22	\$3,242.00
175 567 009	22	\$5,547.00
175 567 010	22	\$6,947.00
175 567 022	22	\$1,314.00
175 567 023	22	\$1,476.00
175 567 024	22	\$1,700.00
175 567 025	22	\$1,866.00
175 567 026	22	\$2,585.00
175 567 027	22	\$2,585.00
175 567 028	22	\$3,230.00
175 567 029	22	\$5,840.00
175 567 030	22	\$7,481.00
175 567 202	22	\$1,110.00
175 567 203	22	\$1,271.00
175 567 204	22	\$1,543.00
175 567 205	22	\$1,838.00
175 567 206	22	\$2,834.00
175 567 207	22	\$2,834.00
175 567 208	22	\$3,632.00
175 567 209	22	\$7,800.00
175 567 210	22	\$9,832.00
175 567 222	22	\$1,472.00
175 567 223	22	\$1,628.00
175 567 224	22	\$1,878.00

Part Number	Page	List Price
175 567 225	22	\$2,066.00
175 567 226	22	\$2,850.00
175 567 227	22	\$2,850.00
175 567 228	22	\$3,654.00
175 567 229	22	\$7,856.00
175 567 230	22	\$9,887.00
175 567 822	22	\$789.00
175 567 823	22	\$973.00
175 567 824	22	\$1,186.00
175 567 825	22	\$1,406.00
175 567 826	22	\$2,195.00
175 567 827	22	\$2,195.00
175 567 828	22	\$2,876.00
175 567 829	22	\$5,556.00
175 567 830	22	\$7,033.00
175 567 842	22	\$984.00
175 567 843	22	\$1,211.00
175 567 844	22	\$1,476.00
175 567 845	22	\$1,752.00
175 567 846	22	\$2,735.00
175 567 847	22	\$2,735.00
175 567 848	22	\$3,585.00
175 567 849	22	\$8,035.00
175 567 850	22	\$10,185.00
175 578 102	24	\$1,411.00
175 578 103	24	\$1,961.00
175 578 104	24	\$1,961.00
175 578 105	24	\$2,269.00
175 578 106	24	\$3,449.00
175 578 107	24	\$3,449.00
175 578 108	24	\$4,323.00
175 578 109	24	\$7,730.00
175 578 110	24	\$9,276.00
175 578 122	24	\$1,485.00
175 578 123	24	\$2,064.00
175 578 124	24	\$2,064.00
175 578 125	24	\$2,388.00
175 578 126	24	\$3,631.00
175 578 127	24	\$3,631.00
175 578 128	24	\$4,550.00
175 578 129	24	\$9,101.00
175 578 130	24	\$10,921.00
175 578 302	24	\$1,693.00
175 578 303	24	\$2,000.00
175 578 304	24	\$2,353.00
175 578 305	24	\$2,819.00
175 578 306	24	\$4,796.00
175 578 307	24	\$4,796.00
175 578 308	24	\$7,797.00
175 578 309	24	\$12,062.00
175 578 310	24	\$15,286.00

Part Number	Page	List Price
175 578 322	24	\$1,782.00
175 578 323	24	\$2,105.00
175 578 324	24	\$2,477.00
175 578 325	24	\$2,967.00
175 578 326	24	\$5,048.00
175 578 327	24	\$5,048.00
175 578 328	24	\$8,207.00
175 578 329	24	\$12,697.00
175 578 330	24	\$16,090.00
175 591 011	46	\$528.00
175 591 012	46	\$533.00
175 591 013	46	\$656.00
175 591 014	46	\$771.00
175 591 015	46	\$1,271.00
175 591 016	46	\$1,371.00
175 591 017	46	\$2,312.00
175 591 018	46	\$4,626.00
175 591 019	46	\$5,782.00
175 591 020	46	\$6,937.00
175 591 031	46	\$528.00
175 591 032	46	\$533.00
175 591 033	46	\$656.00
175 591 034	46	\$771.00
175 591 035	46	\$1,271.00
175 591 036	46	\$1,371.00
175 591 037	46	\$2,312.00
175 595 011	47	\$546.00
175 595 012	47	\$552.00
175 595 013	47	\$677.00
175 595 014	47	\$793.00
175 595 015	47	\$1,298.00
175 595 016	47	\$1,404.00
175 595 017	47	\$2,361.00
175 595 018	47	\$4,719.00
175 595 019	47	\$5,900.00
175 595 020	47	\$7,080.00
175 595 031	47	\$546.00
175 595 032	47	\$552.00
175 595 033	47	\$677.00
175 595 034	47	\$793.00
175 595 035	47	\$1,298.00
175 595 036	47	\$1,404.00
175 595 037	47	\$2,361.00
180 001 002	39	\$381.00
180 001 003	39	\$431.00
180 001 004	39	\$467.00
180 001 005	39	\$581.00
180 001 006	39	\$722.00
180 001 007	39	\$951.00
180 001 012	39	\$318.00
180 001 013	39	\$358.00

Part Number	Page	List Price
180 001 014	39	\$390.00
180 001 015	39	\$488.00
180 001 016	39	\$606.00
180 001 017	39	\$794.00
180 001 101	40	\$727.00
180 001 102	40	\$745.00
180 001 103	40	\$759.00
180 001 104	40	\$777.00
180 001 105	40	\$796.00
180 001 106	40	\$811.00
180 001 107	40	\$887.00
180 001 108	40	\$930.00
180 001 109	40	\$953.00
180 001 110	40	\$979.00
180 001 111	40	\$1,076.00
180 001 112	40	\$1,210.00
180 001 113	40	\$1,249.00
180 001 114	40	\$1,312.00
180 001 115	40	\$1,373.00
180 001 116	40	\$1,177.00
180 001 117	40	\$1,210.00
180 001 118	40	\$1,249.00
180 001 119	40	\$1,349.00
180 001 120	40	\$1,411.00
180 001 121	40	\$1,433.00
180 001 126	40	\$1,960.00
180 001 127	40	\$2,023.00
180 001 128	40	\$2,414.00
180 001 129	40	\$2,925.00
180 001 130	40	\$2,412.00
180 001 131	40	\$2,414.00
180 001 132	40	\$2,531.00
180 001 133	40	\$2,965.00
180 001 134	40	\$3,522.00
180 582 012	133	\$1,937.00
180 582 013	133	\$2,808.00
180 582 014	133	\$3,101.00
180 582 015	133	\$3,422.00
180 582 016	133	\$3,862.00
180 582 017	133	\$5,246.00
180 582 512	133	\$2,035.00
180 582 513	133	\$2,825.00
180 582 514	133	\$3,255.00
180 582 515	133	\$3,750.00
180 582 516	133	\$4,055.00
180 582 517	133	\$6,033.00
180 625 132	127	\$662.00
180 625 133	127	\$701.00
180 625 134	127	\$787.00
180 625 135	127	\$895.00
180 625 136	127	\$1,141.00

Part Number	Page	List Price
180 625 137	127	\$1,548.00
180 645 132	127	\$538.00
180 645 133	127	\$580.00
180 645 134	127	\$658.00
180 645 135	127	\$895.00
180 645 136	127	\$1,099.00
180 645 137	127	\$1,466.00
180 655 132	127	\$538.00
180 655 133	127	\$580.00
180 655 134	127	\$658.00
180 655 135	127	\$895.00
180 655 136	127	\$1,099.00
180 655 137	127	\$1,466.00
181 514 132	34	\$579.00
181 514 133	34	\$615.00
181 514 134	34	\$713.00
181 514 135	34	\$988.00
181 514 136	34	\$1,181.00
181 514 137	34	\$1,563.00
181 514 152	34	\$607.00
181 514 153	34	\$645.00
181 514 154	34	\$748.00
181 514 155	34	\$1,036.00
181 514 156	34	\$1,239.00
181 514 157	34	\$1,640.00
181 515 132	34	\$433.00
181 515 133	34	\$462.00
181 515 134	34	\$533.00
181 515 135	34	\$733.00
181 515 136	34	\$886.00
181 515 137	34	\$1,164.00
181 515 152	34	\$454.00
181 515 153	34	\$485.00
181 515 154	34	\$559.00
181 515 155	34	\$769.00
181 515 156	34	\$929.00
181 515 157	34	\$1,222.00
181 519 301	35	\$874.00
181 519 303	35	\$888.00
181 519 304	35	\$903.00
181 519 307	35	\$903.00
181 519 308	35	\$903.00
181 519 309	35	\$915.00
181 519 312	35	\$915.00
181 519 313	35	\$957.00
181 519 314	35	\$986.00
181 519 315	35	\$1,029.00
181 519 318	35	\$1,155.00
181 519 319	35	\$1,254.00
181 519 320	35	\$1,295.00
181 519 321	35	\$1,309.00

Part Number	Page	List Price
181 519 322	35	\$1,367.00
181 519 325	35	\$1,408.00
181 519 326	35	\$1,479.00
181 519 327	35	\$1,548.00
181 519 328	35	\$1,634.00
181 519 329	35	\$1,634.00
181 519 330	35	\$1,789.00
181 519 341	35	\$2,224.00
181 519 342	35	\$2,252.00
181 519 343	35	\$2,308.00
181 519 345	35	\$2,814.00
181 519 346	35	\$3,130.00
181 519 351	35	\$2,436.00
181 519 352	35	\$2,520.00
181 519 353	35	\$2,604.00
181 519 355	35	\$3,096.00
181 519 356	35	\$3,942.00
181 519 501	35	\$917.00
181 519 503	35	\$931.00
181 519 504	35	\$948.00
181 519 507	35	\$948.00
181 519 508	35	\$948.00
181 519 509	35	\$960.00
181 519 512	35	\$960.00
181 519 513	35	\$1,003.00
181 519 514	35	\$1,034.00
181 519 515	35	\$1,079.00
181 519 518	35	\$1,211.00
181 519 519	35	\$1,315.00
181 519 520	35	\$1,359.00
181 519 521	35	\$1,374.00
181 519 522	35	\$1,434.00
181 519 525	35	\$1,477.00
181 519 526	35	\$1,552.00
181 519 527	35	\$1,624.00
181 519 528	35	\$1,714.00
181 519 529	35	\$1,714.00
181 519 530	35	\$1,877.00
181 519 541	35	\$2,333.00
181 519 542	35	\$2,363.00
181 519 543	35	\$2,422.00
181 519 545	35	\$2,952.00
181 519 546	35	\$3,284.00
181 519 551	35	\$2,555.00
181 519 552	35	\$2,644.00
181 519 553	35	\$2,732.00
181 519 555	35	\$3,249.00
181 519 556	35	\$4,135.00
181 684 132	127	\$792.00
181 684 133	127	\$845.00
181 684 134	127	\$896.00

Part Number	Page	List Price
181 684 135	127	\$1,127.00
181 684 136	127	\$1,410.00
181 684 137	127	\$1,719.00
181 684 152	127	\$792.00
181 684 153	127	\$845.00
181 684 154	127	\$896.00
181 684 155	127	\$1,127.00
181 684 156	127	\$1,410.00
181 684 157	127	\$1,719.00
181 685 132	127	\$754.00
181 685 133	127	\$803.00
181 685 134	127	\$854.00
181 685 135	127	\$1,073.00
181 685 136	127	\$1,342.00
181 685 137	127	\$1,638.00
181 685 152	127	\$754.00
181 685 153	127	\$803.00
181 685 154	127	\$854.00
181 685 155	127	\$1,073.00
181 685 156	127	\$1,342.00
181 685 157	127	\$1,638.00
181 689 301	128	\$1,136.00
181 689 303	128	\$1,144.00
181 689 304	128	\$1,168.00
181 689 307	128	\$1,159.00
181 689 308	128	\$1,181.00
181 689 309	128	\$1,167.00
181 689 312	128	\$1,191.00
181 689 313	128	\$1,208.00
181 689 314	128	\$1,227.00
181 689 315	128	\$1,240.00
181 689 318	128	\$1,380.00
181 689 319	128	\$1,482.00
181 689 320	128	\$1,498.00
181 689 321	128	\$1,531.00
181 689 322	128	\$1,560.00
181 689 325	128	\$1,604.00
181 689 326	128	\$1,673.00
181 689 327	128	\$1,721.00
181 689 328	128	\$1,955.00
181 689 329	128	\$2,036.00
181 689 330	128	\$2,230.00
181 689 341	128	\$2,758.00
181 689 342	128	\$2,758.00
181 689 343	128	\$2,758.00
181 689 345	128	\$3,746.00
181 689 346	128	\$3,746.00
181 689 351	128	\$3,014.00
181 689 352	128	\$3,014.00
181 689 353	128	\$3,014.00
181 689 355	128	\$4,231.00
181 689 356	128	\$4,231.00

Part Number	Page	List Price
181 689 356	128	\$4,231.00
181 689 501	128	\$1,136.00
181 689 503	128	\$1,144.00
181 689 504	128	\$1,168.00
181 689 507	128	\$1,159.00
181 689 508	128	\$1,181.00
181 689 509	128	\$1,167.00
181 689 512	128	\$1,191.00
181 689 513	128	\$1,208.00
181 689 514	128	\$1,227.00
181 689 515	128	\$1,240.00
181 689 518	128	\$1,380.00
181 689 519	128	\$1,482.00
181 689 520	128	\$1,498.00
181 689 521	128	\$1,531.00
181 689 522	128	\$1,560.00
181 689 525	128	\$1,604.00
181 689 526	128	\$1,673.00
181 689 527	128	\$1,721.00
181 689 528	128	\$1,955.00
181 689 529	128	\$2,036.00
181 689 530	128	\$2,230.00
181 689 541	128	\$2,758.00
181 689 542	128	\$2,758.00
181 689 543	128	\$2,758.00
181 689 545	128	\$3,746.00
181 689 546	128	\$3,746.00
181 689 551	128	\$3,014.00
181 689 552	128	\$3,014.00
181 689 553	128	\$3,014.00
181 689 555	128	\$4,231.00
181 689 556	128	\$4,231.00
185 489 131	135	\$444.00
185 489 133	135	\$595.00
185 489 136	135	\$928.00
185 489 161	135	\$523.00
185 489 163	135	\$521.00
185 489 166	135	\$1,013.00
185 514 032	33	\$444.00
185 514 033	33	\$473.00
185 514 034	33	\$550.00
185 514 035	33	\$753.00
185 514 036	33	\$908.00
185 514 037	33	\$1,190.00
185 514 132	33	\$444.00
185 514 133	33	\$473.00
185 514 134	33	\$550.00
185 514 135	33	\$753.00
185 514 136	33	\$908.00
185 514 137	33	\$1,190.00
185 515 032	33	\$330.00

Part Number	Page	List Price
185 515 033	33	\$360.00
185 515 034	33	\$410.00
185 515 035	33	\$564.00
185 515 036	33	\$683.00
185 515 037	33	\$895.00
185 515 132	33	\$330.00
185 515 133	33	\$360.00
185 515 134	33	\$410.00
185 515 135	33	\$564.00
185 515 136	33	\$683.00
185 515 137	33	\$895.00
185 517 732	33	\$394.00
185 517 733	33	\$437.00
185 517 734	33	\$501.00
185 517 735	33	\$676.00
185 517 736	33	\$817.00
185 517 737	33	\$1,077.00
185 582 012	133	\$1,292.00
185 582 013	133	\$1,950.00
185 582 014	133	\$2,157.00
185 582 015	133	\$2,480.00
185 582 016	133	\$2,798.00
185 582 017	133	\$3,498.00
185 582 112	133	\$1,550.00
185 582 113	133	\$2,339.00
185 582 114	133	\$2,480.00
185 582 115	133	\$2,976.00
185 582 116	133	\$3,218.00
185 582 117	133	\$4,197.00
185 582 512	133	\$1,628.00
185 582 513	133	\$2,456.00
185 582 514	133	\$2,604.00
185 582 515	133	\$3,125.00
185 582 516	133	\$3,379.00
185 582 517	133	\$4,827.00
185 586 012	134	\$1,038.00
185 586 013	134	\$1,241.00
185 586 014	134	\$1,537.00
185 586 015	134	\$2,306.00
185 586 016	134	\$2,584.00
185 586 017	134	\$3,102.00
185 586 112	134	\$1,298.00
185 586 113	134	\$1,552.00
185 586 114	134	\$1,922.00
185 586 115	134	\$2,882.00
185 586 116	134	\$3,230.00
185 586 117	134	\$3,878.00
185 586 512	134	\$1,428.00
185 586 513	134	\$1,707.00
185 586 514	134	\$2,114.00
185 586 515	134	\$3,171.00

Part Number	Page	List Price
185 586 516	134	\$3,553.00
185 586 517	134	\$4,265.00
185 624 032	124	\$569.00
185 624 033	124	\$604.00
185 624 034	124	\$701.00
185 624 035	124	\$1,010.00
185 624 036	124	\$1,179.00
185 624 037	124	\$1,466.00
185 624 132	124	\$569.00
185 624 133	124	\$604.00
185 624 134	124	\$701.00
185 624 135	124	\$1,010.00
185 624 136	124	\$1,179.00
185 624 137	124	\$1,466.00
185 625 032	124	\$504.00
185 625 033	124	\$556.00
185 625 034	124	\$592.00
185 625 035	124	\$731.00
185 625 036	124	\$878.00
185 625 037	124	\$1,073.00
185 625 132	124	\$510.00
185 625 133	124	\$564.00
185 625 134	124	\$609.00
185 625 135	124	\$758.00
185 625 136	124	\$920.00
185 625 137	124	\$1,131.00
185 627 732	124	\$569.00
185 627 733	124	\$604.00
185 627 734	124	\$701.00
185 627 735	124	\$1,010.00
185 627 736	124	\$1,179.00
185 627 737	124	\$1,466.00
185 644 032	124	\$521.00
185 644 033	124	\$561.00
185 644 034	124	\$682.00
185 644 035	124	\$927.00
185 644 036	124	\$1,141.00
185 644 037	124	\$1,435.00
185 644 132	124	\$521.00
185 644 133	124	\$561.00
185 644 134	124	\$682.00
185 644 135	124	\$927.00
185 644 136	124	\$1,141.00
185 644 137	124	\$1,435.00
185 645 032	124	\$443.00
185 645 033	124	\$473.00
185 645 034	124	\$527.00
185 645 035	124	\$734.00
185 645 036	124	\$895.00
185 645 037	124	\$1,222.00
185 645 132	124	\$443.00

Part Number	Page	List Price
185 645 133	124	\$473.00
185 645 134	124	\$527.00
185 645 135	124	\$734.00
185 645 136	124	\$895.00
185 645 137	124	\$1,222.00
185 647 732	124	\$734.00
185 647 733	124	\$813.00
185 647 734	124	\$855.00
185 647 735	124	\$938.00
185 647 736	124	\$1,141.00
185 647 737	124	\$1,466.00
185 654 032	125	\$521.00
185 654 033	125	\$561.00
185 654 034	125	\$682.00
185 654 035	125	\$927.00
185 654 036	125	\$1,141.00
185 654 037	125	\$1,435.00
185 654 132	125	\$521.00
185 654 133	125	\$561.00
185 654 134	125	\$682.00
185 654 135	125	\$927.00
185 654 136	125	\$1,141.00
185 654 137	125	\$1,435.00
185 655 032	125	\$443.00
185 655 033	125	\$473.00
185 655 034	125	\$527.00
185 655 035	125	\$734.00
185 655 036	125	\$895.00
185 655 037	125	\$1,222.00
185 655 132	125	\$443.00
185 655 133	125	\$473.00
185 655 134	125	\$527.00
185 655 135	125	\$734.00
185 655 136	125	\$895.00
185 655 137	125	\$1,222.00
185 657 732	125	\$734.00
185 657 733	125	\$813.00
185 657 734	125	\$855.00
185 657 735	125	\$938.00
185 657 736	125	\$1,141.00
185 657 737	125	\$1,466.00
185 684 032	126	\$647.00
185 684 033	126	\$682.00
185 684 034	126	\$729.00
185 684 035	126	\$918.00
185 684 036	126	\$1,158.00
185 684 037	126	\$1,398.00
185 684 132	126	\$660.00
185 684 133	126	\$702.00
185 684 134	126	\$749.00
185 684 135	126	\$941.00

Part Number	Page	List Price
185 684 136	126	\$1,173.00
185 684 137	126	\$1,430.00
185 685 032	126	\$594.00
185 685 033	126	\$632.00
185 685 034	126	\$675.00
185 685 035	126	\$849.00
185 685 036	126	\$1,062.00
185 685 037	126	\$1,297.00
185 685 132	126	\$613.00
185 685 133	126	\$653.00
185 685 134	126	\$697.00
185 685 135	126	\$876.00
185 685 136	126	\$1,090.00
185 685 137	126	\$1,329.00
185 687 732	126	\$895.00
185 687 733	126	\$975.00
185 687 734	126	\$1,017.00
185 687 735	126	\$1,099.00
185 687 736	126	\$1,335.00
185 687 737	126	\$1,560.00
192 301 300	50	\$87.00
192 301 349	50	\$106.00
192 301 350	50	\$95.00
192 301 399	50	\$115.00
192 301 400	50	\$112.00
192 301 449	50	\$136.00
192 301 450	50	\$136.00
192 301 499	50	\$214.00
192 301 500	50	\$178.00
192 301 549	50	\$253.00
192 301 550	50	\$215.00
192 301 599	50	\$328.00
192 301 650	50	\$548.00
192 301 699	50	\$1,076.00
192 304 006	50	\$47.00
192 304 007	50	\$55.00
192 304 008	50	\$64.00
192 304 009	50	\$82.00
192 304 010	50	\$116.00
192 304 011	50	\$169.00
192 304 013	50	\$379.00
192 304 031	50	\$57.00
192 304 032	50	\$68.00
192 304 033	50	\$79.00
192 304 034	50	\$106.00
192 304 035	50	\$166.00
192 304 036	50	\$231.00
192 304 038	50	\$439.00
192 306 300	50	\$55.00
192 306 349	50	\$68.00
192 306 350	50	\$65.00

Part Number	Page	List Price
192 306 399	50	\$75.00
192 306 400	50	\$72.00
192 306 449	50	\$80.00
192 306 450	50	\$125.00
192 306 499	50	\$136.00
192 306 500	50	\$131.00
192 306 549	50	\$149.00
192 306 550	50	\$163.00
192 306 599	50	\$183.00
192 306 650	50	\$309.00
192 306 699	50	\$363.00
192 306 951	50	\$70.00
192 306 952	50	\$80.00
192 306 953	50	\$88.00
192 306 954	50	\$155.00
192 306 955	50	\$153.00
192 306 956	50	\$188.00
192 306 958	50	\$330.00
192 306 961	50	\$85.00
192 306 962	50	\$95.00
192 306 963	50	\$102.00
192 306 964	50	\$171.00
192 306 965	50	\$184.00
192 306 966	50	\$230.00
192 306 968	50	\$452.00
198 000 500	91	\$127.00
198 000 501	91	\$127.00
198 000 502	59	\$59.00
198 000 595	111	\$77.00
198 000 596	111	\$92.00
198 000 597	111	\$105.00
198 000 598	111	\$105.00
198 000 599	78	\$32.00
198 000 600	111	\$127.00
198 000 601	78	\$105.00
198 000 602	78	\$129.00
198 000 603	78	\$108.00
198 000 623	78	\$824.00
198 000 624	78	\$824.00
198 000 625	78	\$824.00
198 000 627	78	\$824.00
198 000 730	111	\$87.00
198 000 731	111	\$71.00
198 000 732	78	\$84.00
198 000 892	37	\$20.00
198 000 893	37	\$25.00
198 000 894	37	\$28.00
198 000 895	37	\$32.00
198 000 896	37	\$42.00
198 000 897	37	\$48.00
198 150 127	91	\$244.00

Part Number	Page	List Price
198 150 128	91	\$244.00
198 150 129	91	\$222.00
198 150 130	91	\$290.00
198 150 131	91	\$290.00
198 150 132	91	\$255.00
198 150 144	91	\$347.00
198 150 145	91	\$347.00
198 150 146	91	\$305.00
198 150 147	91	\$394.00
198 150 148	91	\$394.00
198 150 149	91	\$341.00
198 150 180	59	\$369.00
198 150 181	59	\$369.00
198 150 182	78	\$757.00
198 150 183	78	\$757.00
198 150 184	78	\$1,181.00
198 150 185	78	\$1,181.00
198 150 186	78	\$1,635.00
198 150 187	78	\$1,635.00
198 150 556	59	\$25.00
198 150 557	59	\$25.00
198 150 558	59	\$25.00
198 150 559	59	\$25.00
198 151 317	58	\$372.00
198 151 335	37	\$133.00
198 151 336	37	\$147.00
198 151 337	37	\$153.00
198 151 338	37	\$169.00
198 151 339	37	\$173.00
198 151 340	37	\$190.00
198 151 742	37	\$76.00
198 151 743	37	\$95.00
198 151 744	37	\$106.00
198 151 745	37	\$128.00
198 151 746	37	\$157.00
198 151 747	37	\$192.00
198 151 752	37	\$93.00
198 151 753	37	\$118.00
198 151 754	37	\$133.00
198 151 755	37	\$159.00
198 151 756	37	\$197.00
198 151 757	37	\$239.00
198 203 603	38	\$22.00
198 203 604	38	\$25.00
198 203 606	38	\$28.00
198 203 607	38	\$32.00
198 203 791	131	\$4.00
198 203 792	131	\$4.00
198 204 162	37	\$18.00
198 204 164	37	\$24.00
198 204 166	37	\$24.00

Part Number	Page	List Price
198 335 098	143	\$63.00
198 335 455	143	\$99.00
198 335 457	143	\$110.00
198 335 458	143	\$130.00
198 335 459	143	\$149.00
198 335 470	143	\$130.00
198 335 471	143	\$138.00
198 335 472	143	\$160.00
198 335 473	143	\$188.00
198 335 685	139	\$20.00
198 335 686	139	\$20.00
198 335 689	139	\$20.00
198 335 690	139	\$20.00
198 335 691	139	\$20.00
198 335 692	139	\$20.00
198 335 693	139	\$20.00
198 335 694	139	\$20.00
198 335 695	139	\$20.00
198 335 696	139	\$20.00
198 335 697	139	\$20.00
198 335 820	142	\$166.00
198 335 821	142	\$169.00
198 335 825	142	\$228.00
198 335 826	142	\$228.00
198 335 828	142	\$360.00
198 335 829	142	\$360.00
198 335 830	142	\$435.00
198 335 831	142	\$435.00
198 335 840	142	\$182.00
198 335 841	142	\$182.00
198 335 845	142	\$249.00
198 335 846	142	\$249.00
198 335 848	142	\$395.00
198 335 849	142	\$395.00
198 335 850	142	\$495.00
198 335 851	142	\$495.00
198 335 861	139	\$20.00
198 335 862	139	\$20.00
198 335 865	139	\$20.00
198 335 866	139	\$20.00
198 335 867	139	\$20.00
198 335 869	139	\$20.00
198 335 870	139	\$20.00
198 335 871	139	\$20.00
198 335 872	139	\$20.00
198 335 873	139	\$20.00
198 335 920	142	\$240.00
198 335 921	142	\$240.00
198 335 925	142	\$340.00
198 335 926	142	\$340.00
198 335 928	142	\$540.00

Part Number	Page	List Price
198 335 929	142	\$540.00
198 335 930	142	\$631.00
198 335 931	142	\$783.00
198 335 940	142	\$256.00
198 335 941	142	\$256.00
198 335 945	142	\$373.00
198 335 946	142	\$373.00
198 335 948	142	\$646.00
198 335 949	142	\$646.00
198 335 950	142	\$770.00
198 335 951	142	\$770.00
198 335 960	138	\$96.00
198 335 961	138	\$96.00
198 335 962	138	\$591.00
198 335 963	138	\$591.00
198 335 966	138	\$591.00
198 335 967	138	\$591.00
198 335 968	138	\$591.00
198 335 969	138	\$591.00
198 335 970	143	\$25.00
198 335 972	143	\$31.00
198 335 973	143	\$46.00
198 335 974	143	\$46.00
198 335 975	143	\$56.00
198 335 977	143	\$25.00
198 335 979	143	\$31.00
198 335 980	143	\$46.00
198 335 982	143	\$50.00
198 335 984	143	\$126.00
198 335 985	143	\$77.00
198 335 986	143	\$46.00
198 335 987	143	\$43.00
198 335 990	143	\$2.00
198 335 991	138	\$591.00
198 335 992	138	\$591.00
198 335 993	138	\$591.00
198 335 994	138	\$591.00
198 335 995	138	\$591.00
198 336 000	136	\$223.00
198 336 001	136	\$223.00
198 336 002	136	\$309.00
198 336 003	136	\$309.00
198 336 004	136	\$455.00
198 336 005	136	\$455.00
198 336 006	136	\$782.00
198 336 007	136	\$782.00
198 336 011	136	\$294.00
198 336 012	136	\$294.00
198 336 013	136	\$429.00
198 336 014	136	\$429.00
198 336 015	136	\$717.00

Part Number	Page	List Price
198 336 016	136	\$717.00
198 336 017	136	\$1,052.00
198 336 018	136	\$1,052.00
198 336 022	136	\$228.00
198 336 023	136	\$228.00
198 336 024	136	\$305.00
198 336 025	136	\$332.00
198 336 026	136	\$485.00
198 336 027	136	\$485.00
198 336 028	136	\$768.00
198 336 029	136	\$802.00
198 336 033	136	\$304.00
198 336 034	136	\$304.00
198 336 035	136	\$433.00
198 336 036	136	\$433.00
198 336 037	136	\$717.00
198 336 038	136	\$717.00
198 336 039	136	\$1,223.00
198 336 040	136	\$1,223.00
198 336 044	136	\$208.00
198 336 045	136	\$208.00
198 336 046	136	\$290.00
198 336 047	136	\$290.00
198 336 048	136	\$444.00
198 336 049	136	\$444.00
198 336 050	136	\$723.00
198 336 051	136	\$723.00
198 336 055	136	\$271.00
198 336 056	136	\$271.00
198 336 057	136	\$384.00
198 336 058	136	\$384.00
198 336 059	136	\$595.00
198 336 060	136	\$595.00
198 336 061	136	\$885.00
198 336 062	136	\$1,038.00
198 336 066	136	\$205.00
198 336 067	136	\$205.00
198 336 068	136	\$286.00
198 336 069	136	\$286.00
198 336 070	136	\$435.00
198 336 071	136	\$435.00
198 336 072	136	\$832.00
198 336 073	136	\$832.00
198 336 077	136	\$319.00
198 336 078	136	\$319.00
198 336 079	136	\$401.00
198 336 080	136	\$401.00
198 336 081	136	\$615.00
198 336 082	136	\$615.00
198 336 083	136	\$1,174.00
198 336 084	136	\$1,174.00

Part Number	Page	List Price
198 800 037	91	\$393.00
198 800 039	111	\$546.00
198 800 040	91	\$303.00
198 800 041	111	\$840.00
198 800 042	111	\$419.00
198 800 043	111	\$1,360.00
198 800 044	111	\$613.00
198 800 045	111	\$2,434.00
198 800 046	111	\$970.00
198 800 047	111	\$3,195.00
198 800 048	111	\$1,201.00
198 800 050	111	\$1,893.00
198 800 051	111	\$2,618.00
198 800 728	91	\$448.00
198 800 729	111	\$681.00
198 800 730	111	\$1,260.00
198 800 731	111	\$1,772.00
198 800 734	111	\$492.00
198 800 735	111	\$777.00
198 800 737	111	\$245.00
198 800 757	91	\$341.00
198 800 758	91	\$244.00
198 800 759	91	\$262.00
198 801 290	140	\$27.00
198 801 291	140	\$27.00
198 801 292	140	\$27.00
198 801 293	140	\$27.00
198 801 294	140	\$27.00
198 801 295	140	\$27.00
198 801 324	140	\$27.00
198 801 325	140	\$27.00
198 801 386	141	\$20.00
198 801 387	141	\$20.00
198 801 388	141	\$20.00
198 801 389	141	\$20.00
198 801 390	141	\$20.00
198 801 391	141	\$20.00
198 801 392	141	\$20.00
198 801 393	141	\$20.00
198 801 394	141	\$20.00
198 801 395	141	\$20.00
198 801 469	140	\$27.00
198 801 470	140	\$27.00
198 801 471	140	\$27.00
198 801 472	140	\$27.00
198 801 473	140	\$27.00
198 801 474	140	\$27.00
198 801 475	140	\$27.00
198 801 476	140	\$27.00
198 801 477	140	\$27.00
198 801 478	140	\$27.00

Part Number	Page	List Price
198 801 479	140	\$27.00
198 801 480	140	\$27.00
198 801 481	140	\$27.00
198 801 482	140	\$27.00
198 801 483	140	\$27.00
198 801 484	140	\$27.00
198 801 485	140	\$27.00
198 801 486	140	\$27.00
198 801 487	140	\$27.00
198 801 488	140	\$27.00
198 801 489	140	\$27.00
198 801 490	140	\$27.00
198 801 491	140	\$27.00
198 801 492	140	\$27.00
198 801 961	141	\$20.00
198 801 962	141	\$20.00
198 801 963	141	\$20.00
198 801 964	141	\$20.00
198 801 965	141	\$20.00
198 801 966	141	\$20.00
198 801 967	141	\$20.00
198 801 968	141	\$20.00
198 801 969	141	\$20.00
198 801 970	141	\$20.00
198 806 100	142	\$110.00
198 806 101	142	\$110.00
198 806 102	142	\$110.00
198 806 103	142	\$113.00
198 806 104	142	\$113.00
198 806 105	142	\$113.00
198 806 106	142	\$128.00
198 806 107	142	\$128.00
198 806 108	142	\$128.00
198 806 109	142	\$128.00
198 806 110	142	\$164.00
198 806 111	142	\$164.00
198 806 112	142	\$164.00
198 806 113	142	\$180.00
198 806 114	142	\$180.00
198 806 115	142	\$180.00
198 806 116	142	\$229.00
198 806 117	142	\$229.00
198 806 118	142	\$229.00
198 806 119	142	\$229.00
198 806 219	143	\$72.00
198 806 220	143	\$77.00
198 806 221	143	\$91.00
198 806 222	143	\$126.00
198 806 223	143	\$139.00
198 806 224	143	\$168.00
198 806 398	131	\$38.00

Part Number	Page	List Price
198 806 421	145	\$201.00
198 806 422	145	\$214.00
198 806 423	145	\$89.00
198 806 451	135	\$126.00
198 806 452	135	\$126.00
198 806 453	135	\$274.00
198 806 650	135	\$100.00
198 806 651	135	\$49.00
198 806 652	135	\$149.00
198 806 654	135	\$100.00
198 806 655	135	\$49.00
198 806 656	135	\$149.00
198 807 202	137	\$424.00
198 807 203	137	\$709.00
198 807 204	137	\$709.00
198 807 205	137	\$952.00
198 807 206	137	\$952.00
198 807 207	137	\$1,497.00
198 807 208	137	\$1,497.00
198 807 209	137	\$424.00
198 807 210	137	\$424.00
198 807 550	137	\$139.00
198 807 551	137	\$139.00
198 807 552	137	\$139.00
198 807 553	137	\$143.00
198 807 554	137	\$143.00
198 807 555	137	\$143.00
198 807 556	137	\$166.00
198 807 557	137	\$166.00
198 807 558	137	\$166.00
198 807 559	137	\$166.00
198 807 576	137	\$188.00
198 807 577	137	\$188.00
198 807 578	137	\$188.00
198 807 579	137	\$206.00
198 807 580	137	\$206.00
198 807 581	137	\$206.00
198 807 582	137	\$267.00
198 807 583	137	\$267.00
198 807 584	137	\$267.00
198 807 585	137	\$267.00
198 807 602	137	\$150.00
198 807 603	137	\$150.00
198 807 604	137	\$150.00
198 807 605	137	\$159.00
198 807 606	137	\$159.00
198 807 607	137	\$159.00
198 807 608	137	\$182.00
198 807 609	137	\$182.00
198 807 610	137	\$182.00
198 807 611	137	\$182.00

Part Number	Page	List Price
198 807 612	137	\$190.00
198 807 613	137	\$190.00
198 807 614	137	\$190.00
198 807 615	137	\$214.00
198 807 616	137	\$214.00
198 807 617	137	\$214.00
198 807 618	137	\$274.00
198 807 619	137	\$274.00
198 807 620	137	\$274.00
198 807 621	137	\$274.00
198 811 025	111	\$341.00
198 811 026	111	\$393.00
198 811 027	111	\$448.00
198 811 028	111	\$546.00
198 811 029	111	\$681.00
198 811 030	111	\$840.00
198 811 198	111	\$1,686.00
199 025 007	114	\$1,376.00
199 025 009	114	\$2,181.00
199 025 017	114	\$948.00
199 025 019	114	\$1,994.00
199 025 027	114	\$948.00
199 025 029	114	\$1,994.00
199 025 037	114	\$1,559.00
199 025 039	114	\$2,491.00
199 025 047	114	\$1,169.00
199 025 049	114	\$2,222.00
199 025 057	114	\$1,169.00
199 025 059	114	\$2,222.00
199 025 067	114	\$1,481.00
199 025 068	114	\$2,054.00
199 025 069	114	\$2,366.00
199 025 070	114	\$5,394.00
199 025 077	114	\$1,110.00
199 025 078	114	\$1,715.00
199 025 079	114	\$2,110.00
199 025 080	114	\$5,337.00
199 025 087	114	\$1,110.00
199 025 088	114	\$1,715.00
199 025 089	114	\$2,110.00
199 025 090	114	\$5,337.00
199 025 128	114	\$1,795.00
199 025 130	114	\$4,691.00
199 025 138	114	\$1,469.00
199 025 140	114	\$4,682.00
199 025 148	114	\$1,469.00
199 025 150	114	\$4,682.00
199 025 158	114	\$2,162.00
199 025 168	114	\$1,806.00
199 025 170	114	\$5,619.00
199 025 178	114	\$1,806.00

Part Number	Page	List Price
199 025 180	114	\$5,619.00
199 025 207	122	\$1,666.00
199 025 209	122	\$2,481.00
199 025 217	122	\$1,059.00
199 025 219	122	\$2,113.00
199 025 227	122	\$1,059.00
199 025 229	122	\$2,113.00
199 025 237	122	\$2,032.00
199 025 239	122	\$3,027.00
199 025 247	122	\$1,269.00
199 025 249	122	\$2,536.00
199 025 257	122	\$1,269.00
199 025 259	122	\$2,536.00
199 025 268	122	\$2,085.00
199 025 270	122	\$5,461.00
199 025 278	122	\$1,584.00
199 025 280	122	\$4,993.00
199 025 288	122	\$1,584.00
199 025 290	122	\$4,993.00
199 025 298	122	\$2,544.00
199 025 308	122	\$1,903.00
199 025 310	122	\$5,992.00
199 025 318	122	\$1,903.00
199 025 320	122	\$5,992.00
199 025 327	126	\$2,876.00
199 025 329	126	\$4,823.00
199 025 337	126	\$2,300.00
199 025 339	126	\$3,863.00
199 025 347	126	\$2,300.00
199 025 349	126	\$3,863.00
199 025 358	126	\$3,750.00
199 025 368	126	\$3,078.00
199 025 370	126	\$7,464.00
199 025 378	126	\$3,078.00
199 025 380	126	\$7,464.00
199 025 387	128	\$3,152.00
199 025 389	128	\$5,276.00
199 025 397	128	\$2,469.00
199 025 399	128	\$4,883.00
199 025 407	128	\$2,469.00
199 025 409	128	\$4,883.00
199 025 448	128	\$4,099.00
199 025 458	128	\$3,826.00
199 025 460	128	\$11,881.00
199 025 468	128	\$3,826.00
199 025 470	128	\$11,881.00
199 025 471	117	\$1,607.00
199 025 472	117	\$2,115.00
199 025 473	117	\$2,805.00
199 025 475	117	\$1,798.00
199 025 476	117	\$2,525.00

Part Number	Page	List Price
199 025 477	117	\$1,418.00
199 025 478	117	\$1,798.00
199 025 479	117	\$2,349.00
199 025 637	117	\$1,415.00
199 025 639	117	\$2,400.00
199 025 647	117	\$1,214.00
199 025 649	117	\$2,585.00
199 025 657	117	\$1,214.00
199 025 659	117	\$2,131.00
199 025 667	117	\$1,724.00
199 025 669	117	\$2,952.00
199 025 677	117	\$1,492.00
199 025 679	117	\$2,657.00
199 025 687	117	\$1,492.00
199 025 689	117	\$2,473.00
199 025 698	117	\$1,934.00
199 025 708	117	\$1,603.00
199 025 718	117	\$1,603.00
199 025 728	117	\$2,226.00
199 025 738	117	\$1,893.00
199 025 748	117	\$1,893.00
199 107 202	55	\$459.00
199 107 203	55	\$462.00
199 107 204	55	\$468.00
199 107 205	55	\$473.00
199 107 206	55	\$489.00
199 107 207	55	\$496.00
199 107 208	55	\$520.00
199 107 212	55	\$468.00
199 107 213	55	\$468.00
199 107 214	55	\$473.00
199 107 215	55	\$484.00
199 107 216	55	\$499.00
199 107 217	55	\$514.00
199 107 218	55	\$540.00
199 107 283	55	\$516.00
199 107 284	55	\$523.00
199 107 285	55	\$531.00
199 107 286	55	\$562.00
199 107 287	55	\$565.00
199 107 288	55	\$588.00
199 107 293	55	\$523.00
199 107 294	55	\$531.00
199 107 295	55	\$538.00
199 107 296	55	\$571.00
199 107 297	55	\$579.00
199 107 298	55	\$610.00
199 107 302	55	\$476.00
199 107 303	55	\$477.00
199 107 304	55	\$488.00
199 107 305	55	\$500.00

Part Number	Page	List Price
199 107 306	55	\$520.00
199 107 307	55	\$536.00
199 107 308	55	\$561.00
199 107 312	55	\$481.00
199 107 313	55	\$484.00
199 107 314	55	\$496.00
199 107 315	55	\$510.00
199 107 316	55	\$534.00
199 107 317	55	\$556.00
199 107 318	55	\$593.00
199 131 002	53	\$948.00
199 131 003	53	\$950.00
199 131 004	53	\$965.00
199 131 005	53	\$985.00
199 131 006	53	\$1,011.00
199 131 007	53	\$1,046.00
199 131 008	53	\$1,084.00
199 131 009	53	\$1,918.00
199 131 010	53	\$2,023.00
199 131 011	53	\$2,141.00
199 131 012	53	\$962.00
199 131 013	53	\$963.00
199 131 014	53	\$980.00
199 131 015	53	\$999.00
199 131 016	53	\$1,035.00
199 131 017	53	\$1,066.00
199 131 018	53	\$1,133.00
199 131 019	53	\$2,016.00
199 131 020	53	\$2,141.00
199 131 021	53	\$2,289.00
199 131 042	53	\$948.00
199 131 043	53	\$950.00
199 131 044	53	\$965.00
199 131 045	53	\$985.00
199 131 046	53	\$1,011.00
199 131 047	53	\$1,046.00
199 131 048	53	\$1,084.00
199 131 049	53	\$1,595.00
199 131 050	53	\$1,683.00
199 131 051	53	\$1,787.00
199 131 052	53	\$962.00
199 131 053	53	\$963.00
199 131 054	53	\$980.00
199 131 055	53	\$999.00
199 131 056	53	\$1,035.00
199 131 057	53	\$1,066.00
199 131 058	53	\$1,133.00
199 131 059	53	\$2,016.00
199 131 060	53	\$2,141.00
199 131 061	53	\$2,289.00
199 131 203	54	\$1,014.00

Part Number	Page	List Price
199 131 204	54	\$1,035.00
199 131 205	54	\$1,082.00
199 131 206	54	\$1,249.00
199 131 207	54	\$1,263.00
199 131 208	54	\$1,377.00
199 131 209	54	\$1,986.00
199 131 210	54	\$2,119.00
199 131 211	54	\$2,258.00
199 131 213	54	\$1,024.00
199 131 214	54	\$1,057.00
199 131 215	54	\$1,097.00
199 131 216	54	\$1,262.00
199 131 217	54	\$1,266.00
199 131 218	54	\$1,421.00
199 131 219	54	\$2,086.00
199 131 220	54	\$2,225.00
199 131 221	54	\$2,371.00
199 131 223	54	\$1,014.00
199 131 224	54	\$1,035.00
199 131 225	54	\$1,082.00
199 131 226	54	\$1,249.00
199 131 227	54	\$1,263.00
199 131 228	54	\$1,377.00
199 131 229	54	\$1,986.00
199 131 230	54	\$2,112.00
199 131 231	54	\$2,258.00
199 131 233	54	\$1,024.00
199 131 234	54	\$1,057.00
199 131 235	54	\$1,097.00
199 131 236	54	\$1,262.00
199 131 237	54	\$1,266.00
199 131 238	54	\$1,421.00
199 131 239	54	\$2,086.00
199 131 240	54	\$2,225.00
199 131 241	54	\$2,371.00
199 131 323	53	\$1,044.00
199 131 324	53	\$1,062.00
199 131 325	53	\$1,084.00
199 131 326	53	\$1,112.00
199 131 327	53	\$1,152.00
199 131 328	53	\$1,192.00
199 131 329	53	\$2,109.00
199 131 330	53	\$2,225.00
199 131 331	53	\$2,356.00
199 131 333	53	\$1,060.00
199 131 334	53	\$1,077.00
199 131 335	53	\$1,099.00
199 131 336	53	\$1,139.00
199 131 337	53	\$1,173.00
199 131 338	53	\$1,246.00
199 131 339	53	\$2,218.00

Part Number	Page	List Price
199 131 340	53	\$2,356.00
199 131 341	53	\$2,517.00
199 131 363	53	\$1,044.00
199 131 364	53	\$1,062.00
199 131 365	53	\$1,084.00
199 131 366	53	\$1,112.00
199 131 367	53	\$1,152.00
199 131 368	53	\$1,192.00
199 131 369	53	\$1,755.00
199 131 370	53	\$1,851.00
199 131 371	53	\$1,966.00
199 131 373	53	\$1,060.00
199 131 374	53	\$1,077.00
199 131 375	53	\$1,099.00
199 131 376	53	\$1,139.00
199 131 377	53	\$1,173.00
199 131 378	53	\$1,246.00
199 131 379	53	\$2,218.00
199 131 380	53	\$2,356.00
199 131 381	53	\$2,517.00
199 131 402	54	\$962.00
199 131 403	54	\$963.00
199 131 404	54	\$976.00
199 131 405	54	\$999.00
199 131 406	54	\$1,029.00
199 131 407	54	\$1,066.00
199 131 408	54	\$1,112.00
199 131 412	54	\$973.00
199 131 413	54	\$984.00
199 131 414	54	\$993.00
199 131 415	54	\$1,022.00
199 131 416	54	\$1,056.00
199 131 417	54	\$1,095.00
199 131 418	54	\$1,169.00
199 131 422	54	\$962.00
199 131 423	54	\$963.00
199 131 424	54	\$976.00
199 131 425	54	\$999.00
199 131 426	54	\$1,029.00
199 131 427	54	\$1,066.00
199 131 428	54	\$1,112.00
199 131 432	54	\$973.00
199 131 433	54	\$984.00
199 131 434	54	\$993.00
199 131 435	54	\$1,022.00
199 131 436	54	\$1,056.00
199 131 437	54	\$1,095.00
199 131 438	54	\$1,169.00
199 132 012	54	\$1,109.00
199 132 013	54	\$1,120.00
199 132 014	54	\$1,167.00

Part Number	Page	List Price
199 132 015	54	\$1,237.00
199 132 016	54	\$1,329.00
199 132 017	54	\$1,509.00
199 132 018	54	\$1,729.00
199 132 019	54	\$3,492.00
199 132 020	54	\$4,190.00
199 132 021	54	\$4,819.00
199 132 052	54	\$1,109.00
199 132 053	54	\$1,120.00
199 132 054	54	\$1,167.00
199 132 055	54	\$1,237.00
199 132 056	54	\$1,329.00
199 132 057	54	\$1,509.00
199 132 058	54	\$1,729.00
199 132 059	54	\$3,492.00
199 132 060	54	\$4,190.00
199 132 061	54	\$4,819.00
199 132 113	54	\$1,120.00
199 132 114	54	\$1,167.00
199 132 115	54	\$1,237.00
199 132 116	54	\$1,329.00
199 132 117	54	\$1,509.00
199 132 118	54	\$1,729.00
199 132 119	54	\$3,492.00
199 132 120	54	\$4,190.00
199 132 121	54	\$4,819.00
199 132 153	54	\$1,120.00
199 132 154	54	\$1,167.00
199 132 155	54	\$1,237.00
199 132 156	54	\$1,329.00
199 132 157	54	\$1,509.00
199 132 158	54	\$1,729.00
199 132 159	54	\$3,492.00
199 132 160	54	\$4,190.00
199 132 161	54	\$4,819.00
199 132 213	55	\$1,276.00
199 132 214	55	\$1,327.00
199 132 215	55	\$1,360.00
199 132 216	55	\$1,508.00
199 132 217	55	\$1,582.00
199 132 218	55	\$1,800.00
199 132 233	55	\$1,276.00
199 132 234	55	\$1,327.00
199 132 235	55	\$1,360.00
199 132 236	55	\$1,508.00
199 132 237	55	\$1,582.00
199 132 238	55	\$1,800.00
199 132 412	55	\$1,146.00
199 132 413	55	\$1,160.00
199 132 414	55	\$1,199.00
199 132 415	55	\$1,278.00

Part Number	Page	List Price
199 132 416	55	\$1,485.00
199 132 417	55	\$1,515.00
199 132 418	55	\$1,744.00
199 132 432	55	\$1,146.00
199 132 433	55	\$1,160.00
199 132 434	55	\$1,199.00
199 132 435	55	\$1,278.00
199 132 436	55	\$1,485.00
199 132 437	55	\$1,515.00
199 132 438	55	\$1,744.00
199 133 002	52	\$930.00
199 133 003	52	\$931.00
199 133 004	52	\$942.00
199 133 005	52	\$959.00
199 133 006	52	\$976.00
199 133 007	52	\$1,003.00
199 133 008	52	\$1,034.00
199 133 009	52	\$1,671.00
199 133 010	52	\$1,729.00
199 133 011	52	\$1,801.00
199 133 012	52	\$939.00
199 133 013	52	\$940.00
199 133 014	52	\$953.00
199 133 015	52	\$972.00
199 133 016	52	\$993.00
199 133 017	52	\$1,022.00
199 133 018	52	\$1,066.00
199 133 019	52	\$1,689.00
199 133 020	52	\$1,759.00
199 133 021	52	\$1,839.00
199 133 022	52	\$930.00
199 133 023	52	\$931.00
199 133 024	52	\$942.00
199 133 025	52	\$959.00
199 133 026	52	\$976.00
199 133 027	52	\$1,003.00
199 133 028	52	\$1,033.00
199 133 029	52	\$1,639.00
199 133 030	52	\$1,698.00
199 133 031	52	\$1,759.00
199 133 032	52	\$939.00
199 133 033	52	\$940.00
199 133 034	52	\$953.00
199 133 035	52	\$972.00
199 133 036	52	\$993.00
199 133 037	52	\$1,022.00
199 133 038	52	\$1,066.00
199 133 039	52	\$1,689.00
199 133 040	52	\$1,773.00
199 133 041	52	\$1,839.00
199 133 083	52	\$1,005.00

Part Number	Page	List Price
199 133 084	52	\$1,011.00
199 133 085	52	\$1,033.00
199 133 086	52	\$1,073.00
199 133 087	52	\$1,088.00
199 133 088	52	\$1,097.00
199 133 089	52	\$1,639.00
199 133 090	52	\$1,689.00
199 133 091	52	\$1,773.00
199 133 093	52	\$1,011.00
199 133 094	52	\$1,024.00
199 133 095	52	\$1,050.00
199 133 096	52	\$1,096.00
199 133 097	52	\$1,108.00
199 133 098	52	\$1,124.00
199 133 099	52	\$1,681.00
199 133 100	52	\$1,748.00
199 133 101	52	\$1,830.00
199 133 103	52	\$1,005.00
199 133 104	52	\$1,011.00
199 133 105	52	\$1,033.00
199 133 106	52	\$1,073.00
199 133 107	52	\$1,088.00
199 133 108	52	\$1,097.00
199 133 109	52	\$1,639.00
199 133 110	52	\$1,689.00
199 133 111	52	\$1,773.00
199 133 113	52	\$1,011.00
199 133 114	52	\$1,024.00
199 133 115	52	\$1,050.00
199 133 116	52	\$1,096.00
199 133 117	52	\$1,108.00
199 133 118	52	\$1,124.00
199 133 119	52	\$1,683.00
199 133 120	52	\$1,748.00
199 133 121	52	\$1,830.00
199 133 402	52	\$953.00
199 133 403	52	\$966.00
199 133 404	52	\$982.00
199 133 405	52	\$1,001.00
199 133 406	52	\$1,056.00
199 133 407	52	\$1,093.00
199 133 408	52	\$1,143.00
199 133 409	52	\$1,839.00
199 133 410	52	\$1,918.00
199 133 411	52	\$2,045.00
199 133 412	52	\$962.00
199 133 413	52	\$972.00
199 133 414	52	\$996.00
199 133 415	52	\$1,028.00
199 133 416	52	\$1,070.00
199 133 417	52	\$1,132.00

Part Number	Page	List Price
199 133 418	52	\$1,191.00
199 133 419	52	\$1,918.00
199 133 420	52	\$2,016.00
199 133 421	52	\$2,141.00
199 133 422	52	\$953.00
199 133 423	52	\$966.00
199 133 424	52	\$982.00
199 133 425	52	\$1,001.00
199 133 426	52	\$1,056.00
199 133 427	52	\$1,093.00
199 133 428	52	\$1,143.00
199 133 429	52	\$1,876.00
199 133 430	52	\$1,978.00
199 133 431	52	\$2,067.00
199 133 432	52	\$962.00
199 133 433	52	\$972.00
199 133 434	52	\$996.00
199 133 435	52	\$1,028.00
199 133 436	52	\$1,070.00
199 133 437	52	\$1,132.00
199 133 438	52	\$1,191.00
199 133 439	52	\$1,918.00
199 133 440	52	\$2,067.00
199 133 441	52	\$2,215.00
199 133 483	53	\$1,024.00
199 133 484	53	\$1,035.00
199 133 485	53	\$1,070.00
199 133 486	53	\$1,124.00
199 133 487	53	\$1,141.00
199 133 488	53	\$1,231.00
199 133 489	53	\$1,964.00
199 133 490	53	\$2,067.00
199 133 491	53	\$2,176.00
199 133 493	53	\$1,038.00
199 133 494	53	\$1,050.00
199 133 495	53	\$1,088.00
199 133 496	53	\$1,141.00
199 133 497	53	\$1,152.00
199 133 498	53	\$1,264.00
199 133 499	53	\$2,016.00
199 133 500	53	\$2,141.00
199 133 501	53	\$2,258.00
199 133 503	53	\$1,024.00
199 133 504	53	\$1,035.00
199 133 505	53	\$1,070.00
199 133 506	53	\$1,124.00
199 133 507	53	\$1,141.00
199 133 508	53	\$1,231.00
199 133 509	53	\$1,964.00
199 133 510	53	\$2,067.00
199 133 511	53	\$2,215.00

Part Number	Page	List Price
199 133 513	53	\$1,038.00
199 133 514	53	\$1,050.00
199 133 515	53	\$1,088.00
199 133 516	53	\$1,141.00
199 133 517	53	\$1,152.00
199 133 518	53	\$1,264.00
199 133 519	53	\$2,016.00
199 133 520	53	\$2,133.00
199 133 521	53	\$2,258.00
199 140 002	67	\$1,826.00
199 140 003	67	\$1,833.00
199 140 004	67	\$1,843.00
199 140 005	67	\$1,857.00
199 140 006	67	\$1,936.00
199 140 007	67	\$1,936.00
199 140 008	67	\$2,411.00
199 140 022	67	\$1,910.00
199 140 023	67	\$1,913.00
199 140 024	67	\$1,924.00
199 140 025	67	\$1,945.00
199 140 026	67	\$2,051.00
199 140 027	67	\$2,051.00
199 140 028	67	\$2,475.00
199 140 042	67	\$1,238.00
199 140 043	67	\$1,243.00
199 140 044	67	\$1,251.00
199 140 045	67	\$1,268.00
199 140 046	67	\$1,308.00
199 140 047	67	\$1,308.00
199 140 048	67	\$1,789.00
199 140 049	67	\$3,487.00
199 140 050	67	\$3,754.00
199 140 051	67	Call
199 140 052	67	Call
199 140 062	67	\$1,320.00
199 140 063	67	\$1,325.00
199 140 064	67	\$1,333.00
199 140 065	67	\$1,354.00
199 140 066	67	\$1,423.00
199 140 067	67	\$1,423.00
199 140 068	67	\$1,852.00
199 140 069	67	\$3,937.00
199 140 070	67	\$4,571.00
199 140 071	67	Call
199 140 072	67	Call
199 140 082	67	\$1,826.00
199 140 083	67	\$1,833.00
199 140 084	67	\$1,843.00
199 140 085	67	\$1,857.00
199 140 086	67	\$1,936.00
199 140 087	67	\$1,936.00

Part Number	Page	List Price
199 140 088	67	\$2,411.00
199 140 102	67	\$1,910.00
199 140 103	67	\$1,913.00
199 140 104	67	\$1,924.00
199 140 105	67	\$1,945.00
199 140 106	67	\$2,051.00
199 140 107	67	\$2,051.00
199 140 108	67	\$2,475.00
199 140 122	67	\$1,238.00
199 140 123	67	\$1,243.00
199 140 124	67	\$1,251.00
199 140 125	67	\$1,268.00
199 140 126	67	\$1,308.00
199 140 127	67	\$1,308.00
199 140 128	67	\$1,789.00
199 140 129	67	\$3,487.00
199 140 130	67	\$3,754.00
199 140 142	67	\$1,320.00
199 140 143	67	\$1,325.00
199 140 144	67	\$1,333.00
199 140 145	67	\$1,354.00
199 140 146	67	\$1,423.00
199 140 147	67	\$1,423.00
199 140 148	67	\$1,852.00
199 140 149	67	\$3,937.00
199 140 150	67	\$4,571.00
199 140 162	68	\$1,964.00
199 140 163	68	\$2,001.00
199 140 164	68	\$2,068.00
199 140 165	68	\$2,133.00
199 140 166	68	\$2,333.00
199 140 167	68	\$2,333.00
199 140 168	68	\$2,838.00
199 140 182	68	\$2,009.00
199 140 183	68	\$2,063.00
199 140 184	68	\$2,131.00
199 140 185	68	\$2,202.00
199 140 186	68	\$2,414.00
199 140 187	68	\$2,414.00
199 140 188	68	\$2,945.00
199 140 202	68	\$1,375.00
199 140 203	68	\$1,412.00
199 140 204	68	\$1,479.00
199 140 205	68	\$1,545.00
199 140 206	68	\$1,705.00
199 140 207	68	\$1,705.00
199 140 208	68	\$2,213.00
199 140 222	68	\$1,420.00
199 140 223	68	\$1,474.00
199 140 224	68	\$1,543.00
199 140 225	68	\$1,612.00

Part Number	Page	List Price
199 140 226	68	\$1,787.00
199 140 227	68	\$1,787.00
199 140 228	68	\$2,322.00
199 140 242	68	\$1,964.00
199 140 243	68	\$2,001.00
199 140 244	68	\$2,068.00
199 140 245	68	\$2,133.00
199 140 246	68	\$2,333.00
199 140 247	68	\$2,333.00
199 140 248	68	\$2,838.00
199 140 262	68	\$2,009.00
199 140 263	68	\$2,063.00
199 140 264	68	\$2,131.00
199 140 265	68	\$2,202.00
199 140 266	68	\$2,414.00
199 140 267	68	\$2,414.00
199 140 268	68	\$2,945.00
199 140 282	68	\$1,375.00
199 140 283	68	\$1,412.00
199 140 284	68	\$1,479.00
199 140 285	68	\$1,545.00
199 140 286	68	\$1,705.00
199 140 287	68	\$1,705.00
199 140 288	68	\$2,213.00
199 140 302	68	\$1,420.00
199 140 303	68	\$1,474.00
199 140 304	68	\$1,543.00
199 140 305	68	\$1,612.00
199 140 306	68	\$1,787.00
199 140 307	68	\$1,787.00
199 140 308	68	\$2,322.00
199 140 322	69	\$1,910.00
199 140 323	69	\$1,924.00
199 140 324	69	\$1,955.00
199 140 325	69	\$2,113.00
199 140 326	69	\$2,113.00
199 140 327	69	\$2,161.00
199 140 328	69	\$2,609.00
199 140 342	69	\$1,822.00
199 140 343	69	\$2,001.00
199 140 344	69	\$2,034.00
199 140 345	69	\$2,108.00
199 140 346	69	\$2,341.00
199 140 347	69	\$2,341.00
199 140 348	69	\$2,767.00
199 140 362	69	\$1,320.00
199 140 363	69	\$1,334.00
199 140 364	69	\$1,367.00
199 140 365	69	\$1,423.00
199 140 366	69	\$1,531.00
199 140 367	69	\$1,531.00

Part Number	Page	List Price
199 140 368	69	\$1,986.00
199 140 369	69	\$3,293.00
199 140 370	69	\$3,431.00
199 140 371	69	Call
199 140 372	69	Call
199 140 373	69	Call
199 140 374	69	Call
199 140 375	69	Call
199 140 382	69	\$1,387.00
199 140 383	69	\$1,412.00
199 140 384	69	\$1,443.00
199 140 385	69	\$1,517.00
199 140 386	69	\$1,715.00
199 140 387	69	\$1,715.00
199 140 388	69	\$2,143.00
199 140 389	69	\$3,657.00
199 140 390	69	\$3,712.00
199 140 391	69	Call
199 140 392	69	Call
199 140 393	69	Call
199 140 394	69	Call
199 140 395	69	Call
199 140 402	69	\$1,910.00
199 140 403	69	\$1,924.00
199 140 404	69	\$1,955.00
199 140 405	69	\$2,014.00
199 140 406	69	\$2,161.00
199 140 407	69	\$2,161.00
199 140 408	69	\$2,609.00
199 140 422	69	\$1,977.00
199 140 423	69	\$2,001.00
199 140 424	69	\$2,034.00
199 140 425	69	\$2,108.00
199 140 426	69	\$2,341.00
199 140 427	69	\$2,341.00
199 140 428	69	\$2,767.00
199 140 442	69	\$1,320.00
199 140 443	69	\$1,412.00
199 140 444	69	\$1,443.00
199 140 445	69	\$1,517.00
199 140 446	69	\$1,715.00
199 140 447	69	\$1,715.00
199 140 448	69	\$2,143.00
199 140 449	69	\$3,293.00
199 140 450	69	\$3,497.00
199 140 462	69	\$1,387.00
199 140 463	69	\$1,412.00
199 140 464	69	\$1,443.00
199 140 465	69	\$1,517.00
199 140 466	69	\$1,715.00
199 140 467	69	\$1,715.00

Part Number	Page	List Price
199 140 468	69	\$2,143.00
199 140 469	69	\$3,657.00
199 140 470	69	\$3,859.00
199 140 562	70	\$2,363.00
199 140 563	70	\$2,503.00
199 140 564	70	\$2,664.00
199 140 565	70	\$2,835.00
199 140 566	70	\$3,439.00
199 140 567	70	\$3,439.00
199 140 568	70	\$4,289.00
199 140 582	70	\$1,745.00
199 140 583	70	\$1,886.00
199 140 584	70	\$2,046.00
199 140 585	70	\$2,215.00
199 140 586	70	\$2,779.00
199 140 587	70	\$2,779.00
199 140 588	70	\$3,634.00
199 140 589	70	\$5,484.00
199 140 590	70	\$5,655.00
199 140 602	70	\$2,363.00
199 140 603	70	\$2,503.00
199 140 604	70	\$2,664.00
199 140 605	70	\$2,835.00
199 140 606	70	\$3,439.00
199 140 607	70	\$3,439.00
199 140 608	70	\$4,289.00
199 140 622	70	\$1,745.00
199 140 623	70	\$1,886.00
199 140 624	70	\$2,046.00
199 140 625	70	\$2,215.00
199 140 626	70	\$2,779.00
199 140 627	70	\$2,779.00
199 140 628	70	\$3,634.00
199 140 629	70	\$5,484.00
199 140 630	70	\$6,137.00
199 140 642	70	\$2,509.00
199 140 643	70	\$2,631.00
199 140 644	70	\$2,754.00
199 140 645	70	\$2,966.00
199 140 646	70	\$4,011.00
199 140 647	70	\$4,011.00
199 140 648	70	\$4,904.00
199 140 649	70	\$6,855.00
199 140 650	70	\$7,671.00
199 140 662	70	\$2,509.00
199 140 663	70	\$2,631.00
199 140 664	70	\$2,754.00
199 140 665	70	\$2,966.00
199 140 666	70	\$4,011.00
199 140 667	70	\$4,011.00
199 140 668	70	\$4,904.00

Part Number	Page	List Price
199 140 669	70	\$6,855.00
199 140 670	70	\$7,671.00
199 144 002	71	\$2,116.00
199 144 003	71	\$2,132.00
199 144 004	71	\$2,132.00
199 144 005	71	\$2,449.00
199 144 006	71	\$2,682.00
199 144 007	71	\$2,682.00
199 144 008	71	\$3,382.00
199 144 022	71	\$2,191.00
199 144 023	71	\$2,207.00
199 144 024	71	\$2,208.00
199 144 025	71	\$2,560.00
199 144 026	71	\$2,852.00
199 144 027	71	\$2,852.00
199 144 028	71	\$3,579.00
199 144 042	71	\$1,528.00
199 144 043	71	\$1,542.00
199 144 044	71	\$1,562.00
199 144 045	71	\$1,860.00
199 144 046	71	\$2,054.00
199 144 047	71	\$2,054.00
199 144 048	71	\$2,760.00
199 144 049	71	\$4,124.00
199 144 050	71	\$4,365.00
199 144 062	71	\$1,601.00
199 144 063	71	\$1,619.00
199 144 064	71	\$1,617.00
199 144 065	71	\$1,969.00
199 144 066	71	\$2,224.00
199 144 067	71	\$2,224.00
199 144 068	71	\$2,956.00
199 144 069	71	\$4,271.00
199 144 070	71	\$4,952.00
199 144 082	71	\$2,116.00
199 144 083	71	\$2,132.00
199 144 084	71	\$2,132.00
199 144 085	71	\$2,449.00
199 144 086	71	\$2,682.00
199 144 087	71	\$2,682.00
199 144 088	71	\$3,382.00
199 144 102	71	\$2,191.00
199 144 103	71	\$2,207.00
199 144 104	71	\$2,208.00
199 144 105	71	\$2,560.00
199 144 106	71	\$2,852.00
199 144 107	71	\$2,852.00
199 144 108	71	\$3,579.00
199 144 122	71	\$1,528.00
199 144 123	71	\$1,542.00
199 144 124	71	\$1,540.00

Part Number	Page	List Price
199 144 125	71	\$1,860.00
199 144 126	71	\$2,054.00
199 144 127	71	\$2,054.00
199 144 128	71	\$2,760.00
199 144 129	71	\$4,124.00
199 144 130	71	\$4,365.00
199 144 142	71	\$1,601.00
199 144 143	71	\$1,619.00
199 144 144	71	\$1,617.00
199 144 145	71	\$1,969.00
199 144 146	71	\$2,224.00
199 144 147	71	\$2,224.00
199 144 148	71	\$2,956.00
199 144 149	71	\$4,271.00
199 144 150	71	\$4,952.00
199 144 162	72	\$2,304.00
199 144 163	72	\$2,332.00
199 144 164	72	\$2,365.00
199 144 165	72	\$2,824.00
199 144 166	72	\$3,207.00
199 144 167	72	\$3,207.00
199 144 168	72	\$4,052.00
199 144 182	72	\$2,391.00
199 144 183	72	\$2,438.00
199 144 184	72	\$2,430.00
199 144 185	72	\$2,986.00
199 144 186	72	\$3,428.00
199 144 187	72	\$3,428.00
199 144 188	72	\$4,359.00
199 144 202	72	\$1,715.00
199 144 203	72	\$1,743.00
199 144 204	72	\$1,776.00
199 144 205	72	\$2,236.00
199 144 206	72	\$2,579.00
199 144 207	72	\$2,579.00
199 144 208	72	\$3,427.00
199 144 209	72	\$7,419.00
199 144 210	72	\$8,823.00
199 144 222	72	\$1,802.00
199 144 223	72	\$1,849.00
199 144 224	72	\$1,842.00
199 144 225	72	\$2,396.00
199 144 226	72	\$2,801.00
199 144 227	72	\$2,801.00
199 144 228	72	\$3,736.00
199 144 229	72	\$8,091.00
199 144 230	72	\$9,056.00
199 144 242	72	\$2,304.00
199 144 243	72	\$2,332.00
199 144 244	72	\$2,365.00
199 144 245	72	\$2,824.00

Part Number	Page	List Price
199 144 246	72	\$3,207.00
199 144 247	72	\$3,207.00
199 144 248	72	\$4,052.00
199 144 262	72	\$2,391.00
199 144 263	72	\$2,438.00
199 144 264	72	\$2,430.00
199 144 265	72	\$2,986.00
199 144 266	72	\$3,428.00
199 144 267	72	\$3,428.00
199 144 268	72	\$4,359.00
199 144 282	72	\$1,715.00
199 144 283	72	\$1,743.00
199 144 284	72	\$1,776.00
199 144 285	72	\$2,236.00
199 144 286	72	\$2,579.00
199 144 287	72	\$2,579.00
199 144 288	72	\$3,427.00
199 144 289	72	\$7,419.00
199 144 290	72	\$8,823.00
199 144 302	72	\$1,802.00
199 144 303	72	\$1,849.00
199 144 304	72	\$1,842.00
199 144 305	72	\$2,396.00
199 144 306	72	\$2,801.00
199 144 307	72	\$2,801.00
199 144 308	72	\$3,736.00
199 144 309	72	\$8,091.00
199 144 310	72	\$9,056.00
199 144 322	73	\$2,356.00
199 144 323	73	\$2,488.00
199 144 324	73	\$2,546.00
199 144 325	73	\$2,887.00
199 144 326	73	\$3,313.00
199 144 327	73	\$3,313.00
199 144 328	73	\$4,097.00
199 144 342	73	\$2,259.00
199 144 343	73	\$2,606.00
199 144 344	73	\$2,630.00
199 144 345	73	\$2,862.00
199 144 346	73	\$3,827.00
199 144 347	73	\$3,827.00
199 144 348	73	\$4,346.00
199 144 362	73	\$1,766.00
199 144 363	73	\$1,898.00
199 144 364	73	\$1,958.00
199 144 365	73	\$2,197.00
199 144 366	73	\$2,683.00
199 144 367	73	\$2,683.00
199 144 368	73	\$3,474.00
199 144 369	73	\$4,269.00
199 144 370	73	\$4,737.00

Part Number	Page	List Price
199 144 382	73	\$1,824.00
199 144 383	73	\$2,017.00
199 144 384	73	\$2,039.00
199 144 385	73	\$2,271.00
199 144 386	73	\$3,201.00
199 144 387	73	\$3,201.00
199 144 388	73	\$3,722.00
199 144 389	73	\$5,003.00
199 144 390	73	\$5,580.00
199 144 402	73	\$2,356.00
199 144 403	73	\$2,488.00
199 144 404	73	\$2,546.00
199 144 405	73	\$2,788.00
199 144 406	73	\$3,313.00
199 144 407	73	\$3,313.00
199 144 408	73	\$4,097.00
199 144 422	73	\$2,414.00
199 144 423	73	\$2,606.00
199 144 424	73	\$2,630.00
199 144 425	73	\$2,862.00
199 144 426	73	\$3,827.00
199 144 427	73	\$3,827.00
199 144 428	73	\$4,346.00
199 144 442	73	\$1,766.00
199 144 443	73	\$1,976.00
199 144 444	73	\$2,034.00
199 144 445	73	\$2,291.00
199 144 446	73	\$2,867.00
199 144 447	73	\$2,867.00
199 144 448	73	\$3,631.00
199 144 449	73	\$4,269.00
199 144 450	73	\$4,803.00
199 144 462	73	\$1,824.00
199 144 463	73	\$2,017.00
199 144 464	73	\$2,039.00
199 144 465	73	\$2,271.00
199 144 466	73	\$3,201.00
199 144 467	73	\$3,201.00
199 144 468	73	\$3,722.00
199 144 469	73	\$5,003.00
199 144 470	73	\$5,727.00
199 144 562	74	\$2,655.00
199 144 563	74	\$2,914.00
199 144 564	74	\$2,908.00
199 144 565	74	\$3,144.00
199 144 566	74	\$4,137.00
199 144 567	74	\$4,137.00
199 144 568	74	\$4,838.00
199 144 582	74	\$2,037.00
199 144 583	74	\$2,297.00
199 144 584	74	\$2,290.00

Part Number	Page	List Price
199 144 585	74	\$2,524.00
199 144 586	74	\$3,477.00
199 144 587	74	\$3,477.00
199 144 588	74	\$4,183.00
199 144 589	74	\$6,028.00
199 144 590	74	\$6,588.00
199 144 602	74	\$2,769.00
199 144 603	74	\$2,997.00
199 144 604	74	\$2,963.00
199 144 605	74	\$3,536.00
199 144 606	74	\$4,840.00
199 144 607	74	\$4,840.00
199 144 608	74	\$7,264.00
199 144 622	74	\$2,037.00
199 144 623	74	\$2,297.00
199 144 624	74	\$2,290.00
199 144 625	74	\$2,524.00
199 144 626	74	\$3,477.00
199 144 627	74	\$3,477.00
199 144 628	74	\$4,183.00
199 144 629	74	\$6,028.00
199 144 630	74	\$7,070.00
199 144 642	74	\$2,915.00
199 144 643	74	\$3,125.00
199 144 644	74	\$3,053.00
199 144 645	74	\$3,667.00
199 144 646	74	\$5,412.00
199 144 647	74	\$5,412.00
199 144 648	74	\$7,879.00
199 144 649	74	\$9,899.00
199 144 650	74	\$11,567.00
199 144 662	74	\$2,915.00
199 144 663	74	\$3,125.00
199 144 664	74	\$3,053.00
199 144 665	74	\$3,667.00
199 144 666	74	\$5,412.00
199 144 667	74	\$5,412.00
199 144 668	74	\$7,879.00
199 144 669	74	\$9,899.00
199 144 670	74	\$11,567.00
199 185 362	61	\$1,020.00
199 185 363	61	\$1,022.00
199 185 364	61	\$1,036.00
199 185 365	61	\$1,060.00
199 185 366	61	\$1,078.00
199 185 367	61	\$1,147.00
199 185 368	61	\$1,186.00
199 185 372	61	\$1,030.00
199 185 373	61	\$1,032.00
199 185 374	61	\$1,046.00
199 185 375	61	\$1,072.00

Part Number	Page	List Price
199 185 376	61	\$1,095.00
199 185 377	61	\$1,169.00
199 185 378	61	\$1,220.00
199 185 382	61	\$1,020.00
199 185 383	61	\$1,022.00
199 185 384	61	\$1,036.00
199 185 385	61	\$1,060.00
199 185 386	61	\$1,078.00
199 185 387	61	\$1,147.00
199 185 388	61	\$1,186.00
199 185 392	61	\$1,030.00
199 185 393	61	\$1,032.00
199 185 394	61	\$1,046.00
199 185 395	61	\$1,072.00
199 185 396	61	\$1,095.00
199 185 397	61	\$1,169.00
199 185 398	61	\$1,220.00
199 185 402	61	\$1,020.00
199 185 403	61	\$1,022.00
199 185 404	61	\$1,036.00
199 185 405	61	\$1,060.00
199 185 406	61	\$1,078.00
199 185 407	61	\$1,147.00
199 185 408	61	\$1,186.00
199 185 412	61	\$1,030.00
199 185 413	61	\$1,032.00
199 185 414	61	\$1,046.00
199 185 415	61	\$1,072.00
199 185 416	61	\$1,095.00
199 185 417	61	\$1,169.00
199 185 418	61	\$1,220.00
199 185 422	61	\$1,020.00
199 185 423	61	\$1,022.00
199 185 424	61	\$1,036.00
199 185 425	61	\$1,060.00
199 185 426	61	\$1,078.00
199 185 427	61	\$1,147.00
199 185 428	61	\$1,186.00
199 185 432	61	\$1,030.00
199 185 433	61	\$1,032.00
199 185 434	61	\$1,046.00
199 185 435	61	\$1,072.00
199 185 436	61	\$1,095.00
199 185 437	61	\$1,169.00
199 185 438	61	\$1,220.00
199 185 442	61	\$1,026.00
199 185 443	61	\$1,026.00
199 185 444	61	\$1,043.00
199 185 445	61	\$1,088.00
199 185 446	61	\$1,103.00
199 185 447	61	\$1,246.00

Part Number	Page	List Price
199 185 448	61	\$1,367.00
199 185 452	61	\$1,057.00
199 185 453	61	\$1,057.00
199 185 454	61	\$1,075.00
199 185 455	61	\$1,121.00
199 185 456	61	\$1,152.00
199 185 457	61	\$1,278.00
199 185 458	61	\$1,398.00
199 185 462	61	\$1,026.00
199 185 463	61	\$1,026.00
199 185 464	61	\$1,043.00
199 185 465	61	\$1,088.00
199 185 466	61	\$1,103.00
199 185 467	61	\$1,246.00
199 185 468	61	\$1,367.00
199 185 472	61	\$1,057.00
199 185 473	61	\$1,057.00
199 185 474	61	\$1,075.00
199 185 475	61	\$1,121.00
199 185 476	61	\$1,152.00
199 185 477	61	\$1,278.00
199 185 478	61	\$1,398.00
199 185 482	61	\$1,026.00
199 185 483	61	\$1,026.00
199 185 484	61	\$1,043.00
199 185 485	61	\$1,088.00
199 185 486	61	\$1,103.00
199 185 487	61	\$1,246.00
199 185 488	61	\$1,367.00
199 185 492	61	\$1,057.00
199 185 493	61	\$1,057.00
199 185 494	61	\$1,075.00
199 185 495	61	\$1,121.00
199 185 496	61	\$1,152.00
199 185 497	61	\$1,278.00
199 185 498	61	\$1,398.00
199 185 502	61	\$1,026.00
199 185 503	61	\$1,026.00
199 185 504	61	\$1,043.00
199 185 505	61	\$1,088.00
199 185 506	61	\$1,103.00
199 185 507	61	\$1,246.00
199 185 508	61	\$1,367.00
199 185 512	61	\$1,057.00
199 185 513	61	\$1,057.00
199 185 514	61	\$1,075.00
199 185 515	61	\$1,121.00
199 185 516	61	\$1,152.00
199 185 517	61	\$1,278.00
199 185 518	61	\$1,398.00
199 186 022	62	\$1,075.00

Part Number	Page	List Price
199 186 023	62	\$1,075.00
199 186 024	62	\$1,094.00
199 186 025	62	\$1,142.00
199 186 026	62	\$1,205.00
199 186 027	62	\$1,304.00
199 186 028	62	\$1,358.00
199 186 032	62	\$1,102.00
199 186 033	62	\$1,102.00
199 186 034	62	\$1,140.00
199 186 035	62	\$1,204.00
199 186 036	62	\$1,331.00
199 186 037	62	\$1,455.00
199 186 038	62	\$1,622.00
199 186 062	62	\$1,075.00
199 186 063	62	\$1,075.00
199 186 064	62	\$1,094.00
199 186 065	62	\$1,142.00
199 186 066	62	\$1,205.00
199 186 067	62	\$1,304.00
199 186 068	62	\$1,358.00
199 186 072	62	\$1,102.00
199 186 073	62	\$1,102.00
199 186 074	62	\$1,140.00
199 186 075	62	\$1,204.00
199 186 076	62	\$1,331.00
199 186 077	62	\$1,455.00
199 186 078	62	\$1,622.00
199 186 083	62	\$1,075.00
199 186 084	62	\$1,094.00
199 186 085	62	\$1,142.00
199 186 086	62	\$1,205.00
199 186 087	62	\$1,304.00
199 186 088	62	\$1,358.00
199 186 093	62	\$1,102.00
199 186 094	62	\$1,140.00
199 186 095	62	\$1,204.00
199 186 096	62	\$1,331.00
199 186 097	62	\$1,455.00
199 186 098	62	\$1,622.00
199 186 103	62	\$1,075.00
199 186 104	62	\$1,094.00
199 186 105	62	\$1,142.00
199 186 106	62	\$1,205.00
199 186 107	62	\$1,304.00
199 186 108	62	\$1,358.00
199 186 113	62	\$1,102.00
199 186 114	62	\$1,140.00
199 186 115	62	\$1,204.00
199 186 116	62	\$1,331.00
199 186 117	62	\$1,455.00
199 186 118	62	\$1,622.00

Part Number	Page	List Price
199 186 322	62	\$1,075.00
199 186 323	62	\$1,075.00
199 186 324	62	\$1,094.00
199 186 325	62	\$1,142.00
199 186 326	62	\$1,205.00
199 186 327	62	\$1,304.00
199 186 328	62	\$1,358.00
199 186 332	62	\$1,102.00
199 186 333	62	\$1,102.00
199 186 334	62	\$1,140.00
199 186 335	62	\$1,204.00
199 186 336	62	\$1,331.00
199 186 337	62	\$1,455.00
199 186 338	62	\$1,622.00
199 186 342	62	\$1,075.00
199 186 343	62	\$1,075.00
199 186 344	62	\$1,094.00
199 186 345	62	\$1,142.00
199 186 346	62	\$1,205.00
199 186 347	62	\$1,304.00
199 186 348	62	\$1,358.00
199 186 352	62	\$1,102.00
199 186 353	62	\$1,102.00
199 186 354	62	\$1,140.00
199 186 355	62	\$1,204.00
199 186 356	62	\$1,331.00
199 186 357	62	\$1,455.00
199 186 358	62	\$1,622.00
199 187 053	63	\$1,408.00
199 187 054	63	\$1,506.00
199 187 055	63	\$1,645.00
199 187 056	63	\$1,848.00
199 187 057	63	\$2,067.00
199 187 058	63	\$2,438.00
199 187 073	63	\$1,408.00
199 187 074	63	\$1,506.00
199 187 075	63	\$1,645.00
199 187 076	63	\$1,848.00
199 187 077	63	\$2,067.00
199 187 078	63	\$2,438.00
199 187 092	63	\$1,323.00
199 187 093	63	\$1,323.00
199 187 094	63	\$1,418.00
199 187 095	63	\$1,557.00
199 187 096	63	\$1,745.00
199 187 097	63	\$1,957.00
199 187 098	63	\$2,351.00
199 187 112	63	\$1,323.00
199 187 113	63	\$1,323.00
199 187 114	63	\$1,418.00
199 187 115	63	\$1,557.00

Part Number	Page	List Price
199 187 116	63	\$1,745.00
199 187 117	63	\$1,957.00
199 187 118	63	\$2,351.00
199 187 242	63	\$1,323.00
199 187 243	63	\$1,323.00
199 187 244	63	\$1,418.00
199 187 245	63	\$1,557.00
199 187 246	63	\$1,745.00
199 187 247	63	\$1,957.00
199 187 248	63	\$2,351.00
199 187 252	63	\$1,323.00
199 187 253	63	\$1,323.00
199 187 254	63	\$1,418.00
199 187 255	63	\$1,557.00
199 187 256	63	\$1,745.00
199 187 257	63	\$1,957.00
199 187 258	63	\$2,351.00
199 188 000	60	\$1,020.00
199 188 001	60	\$1,022.00
199 188 002	60	\$1,036.00
199 188 003	60	\$1,060.00
199 188 004	60	\$1,078.00
199 188 005	60	\$1,147.00
199 188 006	60	\$1,186.00
199 188 007	60	\$1,030.00
199 188 008	60	\$1,032.00
199 188 009	60	\$1,046.00
199 188 010	60	\$1,072.00
199 188 011	60	\$1,095.00
199 188 012	60	\$1,169.00
199 188 013	60	\$1,220.00
199 188 014	60	\$1,020.00
199 188 015	60	\$1,022.00
199 188 016	60	\$1,036.00
199 188 017	60	\$1,060.00
199 188 018	60	\$1,078.00
199 188 019	60	\$1,147.00
199 188 020	60	\$1,186.00
199 188 021	60	\$1,030.00
199 188 022	60	\$1,032.00
199 188 023	60	\$1,046.00
199 188 024	60	\$1,072.00
199 188 025	60	\$1,095.00
199 188 026	60	\$1,169.00
199 188 027	60	\$1,220.00
199 188 572	60	\$1,020.00
199 188 573	60	\$1,022.00
199 188 574	60	\$1,036.00
199 188 575	60	\$1,060.00
199 188 576	60	\$1,078.00
199 188 577	60	\$1,147.00

Part Number	Page	List Price
199 188 578	60	\$1,186.00
199 188 582	60	\$1,030.00
199 188 583	60	\$1,032.00
199 188 584	60	\$1,046.00
199 188 585	60	\$1,072.00
199 188 586	60	\$1,095.00
199 188 587	60	\$1,169.00
199 188 588	60	\$1,220.00
199 188 692	60	\$1,020.00
199 188 693	60	\$1,022.00
199 188 694	60	\$1,036.00
199 188 695	60	\$1,060.00
199 188 696	60	\$1,078.00
199 188 697	60	\$1,147.00
199 188 698	60	\$1,186.00
199 188 702	60	\$1,030.00
199 188 703	60	\$1,032.00
199 188 704	60	\$1,046.00
199 188 705	60	\$1,072.00
199 188 706	60	\$1,095.00
199 188 707	60	\$1,169.00
199 188 708	60	\$1,220.00
199 190 001	130	\$2,234.00
199 190 029	130	\$2,480.00
199 190 080	58	\$58.00
199 190 081	58	\$58.00
199 190 082	58	\$58.00
199 190 083	58	\$58.00
199 190 084	58	\$219.00
199 190 085	58	\$437.00
199 190 086	58	\$109.00
199 190 087	58	\$446.00
199 190 092	58	\$100.00
199 190 093	58	\$140.00
199 190 094	58	\$146.00
199 190 095	58	\$355.00
199 190 096	58	\$355.00
199 190 099	58	\$265.00
199 190 100	58	\$591.00
199 190 108	91	\$3,158.00
199 190 275	90	\$55.00
199 190 281	100	\$47.00
199 190 282	90	\$313.00
199 190 283	90	\$505.00
199 190 284	90	\$505.00
199 190 285	90	\$512.00
199 190 286	90	\$1,001.00
199 190 287	90	\$284.00
199 190 293	130	\$277.00
199 190 294	130	\$750.00
199 190 295	130	\$750.00

Part Number	Page	List Price
199 190 296	130	\$533.00
199 190 297	130	\$319.00
199 190 298	130	\$1,157.00
199 190 302	90	\$218.00
199 190 303	90	\$218.00
199 190 304	90	\$218.00
199 190 305	130	\$206.00
199 190 306	130	\$224.00
199 190 307	130	\$517.00
199 190 308	130	\$517.00
199 190 309	130	\$441.00
199 190 310	130	\$123.00
199 190 318	131	\$105.00
199 190 319	131	\$140.00
199 190 357	90	\$178.00
199 190 358	90	\$178.00
199 190 359	90	\$178.00
199 190 360	90	\$178.00
199 190 361	90	\$178.00
199 190 378	131	\$62.00
199 190 379	131	\$76.00
199 190 381	131	\$38.00
199 190 382	131	\$38.00
199 190 383	131	\$43.00
199 190 384	131	\$52.00
199 190 385	131	\$49.00
199 190 387	130	\$45.00
199 190 388	130	\$45.00
199 190 389	130	\$45.00
199 190 405	130	\$1,157.00
199 190 414	130	\$109.00
199 190 415	130	\$109.00
199 190 416	130	\$233.00
199 190 417	130	\$209.00
199 190 418	130	\$209.00
199 190 419	130	\$209.00
199 190 546	90	\$106.00
199 190 547	90	\$106.00
199 190 554	90	\$153.00
199 190 555	90	\$153.00
199 231 002	83	\$423.00
199 231 003	83	\$443.00
199 231 004	83	\$455.00
199 231 005	83	\$475.00
199 231 006	83	\$523.00
199 231 007	83	\$580.00
199 231 008	83	\$616.00
199 231 012	83	\$453.00
199 231 013	83	\$454.00
199 231 014	83	\$471.00
199 231 015	83	\$490.00

Part Number	Page	List Price
199 231 016	83	\$536.00
199 231 017	83	\$597.00
199 231 018	83	\$666.00
199 231 042	83	\$457.00
199 231 043	83	\$458.00
199 231 044	83	\$473.00
199 231 045	83	\$494.00
199 231 046	83	\$562.00
199 231 047	83	\$597.00
199 231 048	83	\$638.00
199 231 052	83	\$471.00
199 231 053	83	\$472.00
199 231 054	83	\$488.00
199 231 055	83	\$507.00
199 231 056	83	\$588.00
199 231 057	83	\$619.00
199 231 058	83	\$684.00
199 231 082	83	\$443.00
199 231 083	83	\$444.00
199 231 084	83	\$457.00
199 231 085	83	\$476.00
199 231 086	83	\$542.00
199 231 087	83	\$580.00
199 231 088	83	\$616.00
199 231 092	83	\$454.00
199 231 093	83	\$455.00
199 231 094	83	\$472.00
199 231 095	83	\$492.00
199 231 096	83	\$565.00
199 231 097	83	\$597.00
199 231 098	83	\$666.00
199 231 122	83	\$365.00
199 231 123	83	\$366.00
199 231 124	83	\$375.00
199 231 125	83	\$396.00
199 231 126	83	\$462.00
199 231 127	83	\$499.00
199 231 128	83	\$535.00
199 231 129	83	\$1,087.00
199 231 130	83	\$1,285.00
199 231 131	83	\$1,402.00
199 231 132	83	\$374.00
199 231 133	83	\$375.00
199 231 134	83	\$390.00
199 231 135	83	\$409.00
199 231 136	83	\$488.00
199 231 137	83	\$517.00
199 231 138	83	\$584.00
199 231 139	83	\$1,181.00
199 231 140	83	\$1,402.00
199 231 141	83	\$1,550.00

Part Number	Page	List Price
199 231 162	83	\$382.00
199 231 163	83	\$383.00
199 231 164	83	\$394.00
199 231 165	83	\$411.00
199 231 166	83	\$481.00
199 231 167	83	\$517.00
199 231 168	83	\$557.00
199 231 169	83	\$1,005.00
199 231 170	83	\$1,181.00
199 231 171	83	\$1,301.00
199 231 172	83	\$392.00
199 231 173	83	\$394.00
199 231 174	83	\$406.00
199 231 175	83	\$426.00
199 231 176	83	\$507.00
199 231 177	83	\$537.00
199 231 178	83	\$607.00
199 231 179	83	\$1,181.00
199 231 180	83	\$1,402.00
199 231 181	83	\$1,550.00
199 231 202	83	\$367.00
199 231 203	83	\$369.00
199 231 204	83	\$378.00
199 231 205	83	\$397.00
199 231 206	83	\$462.00
199 231 207	83	\$499.00
199 231 208	83	\$535.00
199 231 209	83	\$952.00
199 231 210	83	\$1,077.00
199 231 211	83	\$1,210.00
199 231 212	83	\$377.00
199 231 213	83	\$378.00
199 231 214	83	\$391.00
199 231 215	83	\$410.00
199 231 216	83	\$488.00
199 231 217	83	\$517.00
199 231 218	83	\$584.00
199 231 219	83	\$1,049.00
199 231 220	83	\$1,210.00
199 231 221	83	\$1,358.00
199 231 303	86	\$505.00
199 231 304	86	\$574.00
199 231 305	86	\$580.00
199 231 306	86	\$743.00
199 231 307	86	\$794.00
199 231 308	86	\$908.00
199 231 313	86	\$514.00
199 231 314	86	\$548.00
199 231 315	86	\$589.00
199 231 316	86	\$750.00
199 231 317	86	\$799.00

Part Number	Page	List Price
199 231 318	86	\$953.00
199 231 323	86	\$523.00
199 231 324	86	\$543.00
199 231 325	86	\$591.00
199 231 326	86	\$803.00
199 231 327	86	\$814.00
199 231 328	86	\$930.00
199 231 333	86	\$533.00
199 231 334	86	\$563.00
199 231 335	86	\$608.00
199 231 336	86	\$813.00
199 231 337	86	\$818.00
199 231 338	86	\$972.00
199 231 343	86	\$507.00
199 231 344	86	\$530.00
199 231 345	86	\$578.00
199 231 346	86	\$783.00
199 231 347	86	\$794.00
199 231 348	86	\$908.00
199 231 353	86	\$516.00
199 231 354	86	\$550.00
199 231 355	86	\$591.00
199 231 356	86	\$793.00
199 231 357	86	\$799.00
199 231 358	86	\$953.00
199 231 363	86	\$467.00
199 231 364	86	\$503.00
199 231 365	86	\$542.00
199 231 366	86	\$690.00
199 231 367	86	\$744.00
199 231 368	86	\$853.00
199 231 369	86	\$1,159.00
199 231 370	86	\$1,380.00
199 231 371	86	\$1,529.00
199 231 373	86	\$480.00
199 231 374	86	\$521.00
199 231 375	86	\$559.00
199 231 376	86	\$699.00
199 231 377	86	\$775.00
199 231 378	86	\$923.00
199 231 379	86	\$1,210.00
199 231 380	86	\$1,445.00
199 231 381	86	\$1,625.00
199 231 383	86	\$480.00
199 231 384	86	\$520.00
199 231 385	86	\$552.00
199 231 386	86	\$690.00
199 231 387	86	\$729.00
199 231 388	86	\$836.00
199 231 389	86	\$1,159.00
199 231 390	86	\$1,380.00

Part Number	Page	List Price
199 231 391	86	\$1,529.00
199 231 393	86	\$497.00
199 231 394	86	\$535.00
199 231 395	86	\$574.00
199 231 396	86	\$775.00
199 231 397	86	\$799.00
199 231 398	86	\$953.00
199 231 399	86	\$1,258.00
199 231 400	86	\$1,506.00
199 231 401	86	\$1,677.00
199 231 403	86	\$457.00
199 231 404	86	\$497.00
199 231 405	86	\$529.00
199 231 406	86	\$783.00
199 231 407	86	\$794.00
199 231 408	86	\$908.00
199 231 409	86	\$1,034.00
199 231 410	86	\$1,181.00
199 231 411	86	\$1,330.00
199 231 413	86	\$480.00
199 231 414	86	\$512.00
199 231 415	86	\$559.00
199 231 416	86	\$793.00
199 231 417	86	\$799.00
199 231 418	86	\$953.00
199 231 419	86	\$1,123.00
199 231 420	86	\$1,301.00
199 231 421	86	\$1,477.00
199 231 502	85	\$457.00
199 231 503	85	\$458.00
199 231 504	85	\$470.00
199 231 505	85	\$490.00
199 231 506	85	\$554.00
199 231 507	85	\$597.00
199 231 508	85	\$644.00
199 231 512	85	\$470.00
199 231 513	85	\$474.00
199 231 514	85	\$485.00
199 231 515	85	\$513.00
199 231 516	85	\$571.00
199 231 517	85	\$625.00
199 231 518	85	\$700.00
199 231 522	85	\$475.00
199 231 523	85	\$476.00
199 231 524	85	\$488.00
199 231 525	85	\$507.00
199 231 526	85	\$581.00
199 231 527	85	\$619.00
199 231 528	85	\$664.00
199 231 532	85	\$488.00
199 231 533	85	\$494.00

Part Number	Page	List Price
199 231 534	85	\$502.00
199 231 535	85	\$531.00
199 231 536	85	\$608.00
199 231 537	85	\$647.00
199 231 538	85	\$718.00
199 231 542	85	\$459.00
199 231 543	85	\$462.00
199 231 544	85	\$472.00
199 231 545	85	\$492.00
199 231 546	85	\$560.00
199 231 547	85	\$597.00
199 231 548	85	\$644.00
199 231 552	85	\$473.00
199 231 553	85	\$476.00
199 231 554	85	\$488.00
199 231 555	85	\$514.00
199 231 556	85	\$587.00
199 231 557	85	\$625.00
199 231 558	85	\$700.00
199 231 562	85	\$374.00
199 231 563	85	\$375.00
199 231 564	85	\$389.00
199 231 565	85	\$409.00
199 231 566	85	\$477.00
199 231 567	85	\$517.00
199 231 568	85	\$562.00
199 231 572	85	\$385.00
199 231 573	85	\$394.00
199 231 574	85	\$405.00
199 231 575	85	\$432.00
199 231 576	85	\$505.00
199 231 577	85	\$545.00
199 231 578	85	\$619.00
199 231 582	85	\$392.00
199 231 583	85	\$394.00
199 231 584	85	\$405.00
199 231 585	85	\$426.00
199 231 586	85	\$500.00
199 231 587	85	\$537.00
199 231 588	85	\$583.00
199 231 592	85	\$404.00
199 231 593	85	\$410.00
199 231 594	85	\$423.00
199 231 595	85	\$450.00
199 231 596	85	\$527.00
199 231 597	85	\$564.00
199 231 598	85	\$640.00
199 231 602	85	\$377.00
199 231 603	85	\$378.00
199 231 604	85	\$390.00
199 231 605	85	\$410.00

Part Number	Page	List Price
199 231 606	85	\$477.00
199 231 607	85	\$517.00
199 231 608	85	\$562.00
199 231 612	85	\$389.00
199 231 613	85	\$396.00
199 231 614	85	\$406.00
199 231 615	85	\$434.00
199 231 616	85	\$505.00
199 231 617	85	\$545.00
199 231 618	85	\$619.00
199 231 623	84	\$487.00
199 231 624	84	\$501.00
199 231 625	84	\$522.00
199 231 626	84	\$576.00
199 231 627	84	\$638.00
199 231 628	84	\$678.00
199 231 633	84	\$500.00
199 231 634	84	\$518.00
199 231 635	84	\$540.00
199 231 636	84	\$589.00
199 231 637	84	\$657.00
199 231 638	84	\$733.00
199 231 643	84	\$505.00
199 231 644	84	\$520.00
199 231 645	84	\$544.00
199 231 646	84	\$619.00
199 231 647	84	\$657.00
199 231 648	84	\$701.00
199 231 653	84	\$519.00
199 231 654	84	\$537.00
199 231 655	84	\$557.00
199 231 656	84	\$647.00
199 231 657	84	\$681.00
199 231 658	84	\$752.00
199 231 663	84	\$488.00
199 231 664	84	\$503.00
199 231 665	84	\$523.00
199 231 666	84	\$596.00
199 231 667	84	\$638.00
199 231 668	84	\$678.00
199 231 673	84	\$501.00
199 231 674	84	\$519.00
199 231 675	84	\$542.00
199 231 676	84	\$622.00
199 231 677	84	\$657.00
199 231 678	84	\$733.00
199 231 833	84	\$403.00
199 231 834	84	\$412.00
199 231 835	84	\$435.00
199 231 836	84	\$509.00
199 231 837	84	\$548.00

Part Number	Page	List Price
199 231 838	84	\$588.00
199 231 839	84	\$1,196.00
199 231 840	84	\$1,414.00
199 231 841	84	\$1,542.00
199 231 843	84	\$412.00
199 231 844	84	\$430.00
199 231 845	84	\$450.00
199 231 846	84	\$537.00
199 231 847	84	\$569.00
199 231 848	84	\$643.00
199 231 849	84	\$1,300.00
199 231 850	84	\$1,542.00
199 231 851	84	\$1,706.00
199 231 853	84	\$421.00
199 231 854	84	\$434.00
199 231 855	84	\$452.00
199 231 856	84	\$529.00
199 231 857	84	\$569.00
199 231 858	84	\$613.00
199 231 859	84	\$1,106.00
199 231 860	84	\$1,300.00
199 231 861	84	\$1,431.00
199 231 863	84	\$434.00
199 231 864	84	\$446.00
199 231 865	84	\$469.00
199 231 866	84	\$557.00
199 231 867	84	\$590.00
199 231 868	84	\$667.00
199 231 869	84	\$1,300.00
199 231 870	84	\$1,542.00
199 231 871	84	\$1,706.00
199 231 873	84	\$406.00
199 231 874	84	\$416.00
199 231 875	84	\$437.00
199 231 876	84	\$509.00
199 231 877	84	\$548.00
199 231 878	84	\$588.00
199 231 879	84	\$1,046.00
199 231 880	84	\$1,186.00
199 231 881	84	\$1,332.00
199 231 883	84	\$416.00
199 231 884	84	\$431.00
199 231 885	84	\$451.00
199 231 886	84	\$537.00
199 231 887	84	\$569.00
199 231 888	84	\$643.00
199 231 889	84	\$1,154.00
199 231 890	84	\$1,332.00
199 231 891	84	\$1,494.00
199 232 012	87	\$577.00
199 232 013	87	\$587.00

Part Number	Page	List Price
199 232 014	87	\$631.00
199 232 015	87	\$703.00
199 232 016	87	\$835.00
199 232 017	87	\$1,017.00
199 232 018	87	\$1,237.00
199 232 052	87	\$591.00
199 232 053	87	\$607.00
199 232 054	87	\$650.00
199 232 055	87	\$719.00
199 232 056	87	\$857.00
199 232 057	87	\$1,039.00
199 232 058	87	\$1,260.00
199 232 092	87	\$578.00
199 232 093	87	\$588.00
199 232 094	87	\$632.00
199 232 095	87	\$705.00
199 232 096	87	\$835.00
199 232 097	87	\$1,017.00
199 232 098	87	\$1,237.00
199 232 132	87	\$491.00
199 232 133	87	\$500.00
199 232 134	87	\$547.00
199 232 135	87	\$619.00
199 232 136	87	\$750.00
199 232 137	87	\$935.00
199 232 138	87	\$1,152.00
199 232 139	87	\$2,945.00
199 232 140	87	\$3,534.00
199 232 141	87	\$4,241.00
199 232 172	87	\$509.00
199 232 173	87	\$520.00
199 232 174	87	\$563.00
199 232 175	87	\$638.00
199 232 176	87	\$773.00
199 232 177	87	\$953.00
199 232 178	87	\$1,174.00
199 232 179	87	\$2,945.00
199 232 180	87	\$3,534.00
199 232 181	87	\$4,241.00
199 232 212	87	\$492.00
199 232 213	87	\$501.00
199 232 214	87	\$548.00
199 232 215	87	\$621.00
199 232 216	87	\$750.00
199 232 217	87	\$935.00
199 232 218	87	\$1,152.00
199 232 219	87	\$2,650.00
199 232 220	87	\$3,181.00
199 232 221	87	\$3,817.00
199 232 313	88	\$743.00
199 232 314	88	\$793.00

Part Number	Page	List Price
199 232 315	88	\$826.00
199 232 316	88	\$1,016.00
199 232 317	88	\$1,090.00
199 232 318	88	\$1,308.00
199 232 333	88	\$761.00
199 232 334	88	\$809.00
199 232 335	88	\$845.00
199 232 336	88	\$1,036.00
199 232 337	88	\$1,112.00
199 232 338	88	\$1,332.00
199 232 353	88	\$745.00
199 232 354	88	\$794.00
199 232 355	88	\$828.00
199 232 356	88	\$1,016.00
199 232 357	88	\$1,090.00
199 232 358	88	\$1,308.00
199 232 373	88	\$692.00
199 232 374	88	\$743.00
199 232 375	88	\$954.00
199 232 376	88	\$968.00
199 232 377	88	\$1,041.00
199 232 378	88	\$1,262.00
199 232 393	88	\$713.00
199 232 394	88	\$761.00
199 232 395	88	\$779.00
199 232 396	88	\$988.00
199 232 397	88	\$1,063.00
199 232 398	88	\$1,266.00
199 232 413	88	\$695.00
199 232 414	88	\$745.00
199 232 415	88	\$779.00
199 232 416	88	\$968.00
199 232 417	88	\$1,041.00
199 232 418	88	\$1,262.00
199 232 512	88	\$611.00
199 232 513	88	\$626.00
199 232 514	88	\$662.00
199 232 515	88	\$746.00
199 232 516	88	\$994.00
199 232 517	88	\$1,022.00
199 232 518	88	\$1,251.00
199 232 532	88	\$627.00
199 232 533	88	\$645.00
199 232 534	88	\$681.00
199 232 535	88	\$764.00
199 232 536	88	\$1,016.00
199 232 537	88	\$1,044.00
199 232 538	88	\$1,273.00
199 232 552	88	\$612.00
199 232 553	88	\$627.00
199 232 554	88	\$666.00

Part Number	Page	List Price
199 232 555	88	\$747.00
199 232 556	88	\$994.00
199 232 557	88	\$1,022.00
199 232 558	88	\$1,251.00
199 232 572	88	\$525.00
199 232 573	88	\$542.00
199 232 574	88	\$582.00
199 232 575	88	\$659.00
199 232 576	88	\$909.00
199 232 577	88	\$940.00
199 232 578	88	\$1,168.00
199 232 592	88	\$543.00
199 232 593	88	\$560.00
199 232 594	88	\$594.00
199 232 595	88	\$679.00
199 232 596	88	\$931.00
199 232 597	88	\$962.00
199 232 598	88	\$1,189.00
199 232 612	88	\$526.00
199 232 613	88	\$543.00
199 232 614	88	\$584.00
199 232 615	88	\$660.00
199 232 616	88	\$909.00
199 232 617	88	\$940.00
199 232 618	88	\$1,168.00
199 232 713	87	\$587.00
199 232 714	87	\$631.00
199 232 715	87	\$703.00
199 232 716	87	\$835.00
199 232 717	87	\$1,017.00
199 232 718	87	\$1,237.00
199 232 753	87	\$607.00
199 232 754	87	\$650.00
199 232 755	87	\$719.00
199 232 756	87	\$857.00
199 232 757	87	\$1,039.00
199 232 758	87	\$1,260.00
199 232 793	87	\$588.00
199 232 794	87	\$632.00
199 232 795	87	\$705.00
199 232 796	87	\$835.00
199 232 797	87	\$1,017.00
199 232 798	87	\$1,237.00
199 232 833	87	\$500.00
199 232 834	87	\$547.00
199 232 835	87	\$619.00
199 232 836	87	\$750.00
199 232 837	87	\$935.00
199 232 838	87	\$1,152.00
199 232 839	87	\$2,945.00
199 232 840	87	\$3,534.00

Part Number	Page	List Price
199 232 841	87	\$4,241.00
199 232 873	87	\$520.00
199 232 874	87	\$563.00
199 232 875	87	\$638.00
199 232 876	87	\$773.00
199 232 877	87	\$953.00
199 232 878	87	\$1,174.00
199 232 879	87	\$2,945.00
199 232 880	87	\$3,534.00
199 232 881	87	\$4,241.00
199 232 913	87	\$500.00
199 232 914	87	\$547.00
199 232 915	87	\$619.00
199 232 916	87	\$750.00
199 232 917	87	\$935.00
199 232 918	87	\$1,152.00
199 232 919	87	\$2,650.00
199 232 920	87	\$3,181.00
199 232 921	87	\$3,817.00
199 233 002	79	\$477.00
199 233 003	79	\$480.00
199 233 004	79	\$488.00
199 233 005	79	\$497.00
199 233 006	79	\$561.00
199 233 007	79	\$567.00
199 233 008	79	\$598.00
199 233 012	79	\$488.00
199 233 013	79	\$489.00
199 233 014	79	\$496.00
199 233 015	79	\$507.00
199 233 016	79	\$571.00
199 233 017	79	\$593.00
199 233 018	79	\$624.00
199 233 022	79	\$477.00
199 233 023	79	\$480.00
199 233 024	79	\$488.00
199 233 025	79	\$497.00
199 233 026	79	\$561.00
199 233 027	79	\$567.00
199 233 028	79	\$598.00
199 233 032	79	\$488.00
199 233 033	79	\$489.00
199 233 034	79	\$496.00
199 233 035	79	\$507.00
199 233 036	79	\$571.00
199 233 037	79	\$593.00
199 233 038	79	\$624.00
199 233 042	79	\$454.00
199 233 043	79	\$455.00
199 233 044	79	\$462.00
199 233 045	79	\$471.00

Part Number	Page	List Price
199 233 046	79	\$523.00
199 233 047	79	\$533.00
199 233 048	79	\$562.00
199 233 052	79	\$462.00
199 233 053	79	\$462.00
199 233 054	79	\$471.00
199 233 055	79	\$481.00
199 233 056	79	\$535.00
199 233 057	79	\$557.00
199 233 058	79	\$588.00
199 233 062	79	\$366.00
199 233 063	79	\$367.00
199 233 064	79	\$374.00
199 233 065	79	\$381.00
199 233 066	79	\$446.00
199 233 067	79	\$454.00
199 233 068	79	\$488.00
199 233 069	79	\$768.00
199 233 070	79	\$901.00
199 233 071	79	\$961.00
199 233 072	79	\$374.00
199 233 073	79	\$374.00
199 233 074	79	\$381.00
199 233 075	79	\$394.00
199 233 076	79	\$458.00
199 233 077	79	\$477.00
199 233 078	79	\$512.00
199 233 079	79	\$827.00
199 233 080	79	\$973.00
199 233 081	79	\$1,049.00
199 233 082	79	\$366.00
199 233 083	79	\$367.00
199 233 084	79	\$374.00
199 233 085	79	\$381.00
199 233 086	79	\$446.00
199 233 087	79	\$454.00
199 233 088	79	\$488.00
199 233 089	79	\$783.00
199 233 090	79	\$920.00
199 233 091	79	\$983.00
199 233 092	79	\$374.00
199 233 093	79	\$374.00
199 233 094	79	\$381.00
199 233 095	79	\$394.00
199 233 096	79	\$458.00
199 233 097	79	\$477.00
199 233 098	79	\$512.00
199 233 099	79	\$827.00
199 233 100	79	\$973.00
199 233 101	79	\$1,049.00
199 233 102	79	\$341.00

Part Number	Page	List Price
199 233 103	79	\$341.00
199 233 104	79	\$346.00
199 233 105	79	\$358.00
199 233 106	79	\$409.00
199 233 107	79	\$414.00
199 233 108	79	\$450.00
199 233 109	79	\$666.00
199 233 110	79	\$739.00
199 233 111	79	\$805.00
199 233 112	79	\$346.00
199 233 113	79	\$347.00
199 233 114	79	\$358.00
199 233 115	79	\$369.00
199 233 116	79	\$423.00
199 233 117	79	\$443.00
199 233 118	79	\$474.00
199 233 119	79	\$709.00
199 233 120	79	\$796.00
199 233 121	79	\$872.00
199 233 123	80	\$537.00
199 233 124	80	\$545.00
199 233 125	80	\$556.00
199 233 126	80	\$643.00
199 233 127	80	\$659.00
199 233 128	80	\$679.00
199 233 133	80	\$545.00
199 233 134	80	\$556.00
199 233 135	80	\$564.00
199 233 136	80	\$653.00
199 233 137	80	\$673.00
199 233 138	80	\$692.00
199 233 143	80	\$537.00
199 233 144	80	\$545.00
199 233 145	80	\$556.00
199 233 146	80	\$643.00
199 233 147	80	\$659.00
199 233 148	80	\$679.00
199 233 153	80	\$545.00
199 233 154	80	\$556.00
199 233 155	80	\$564.00
199 233 156	80	\$653.00
199 233 157	80	\$673.00
199 233 158	80	\$692.00
199 233 163	80	\$513.00
199 233 164	80	\$521.00
199 233 165	80	\$530.00
199 233 166	80	\$607.00
199 233 167	80	\$623.00
199 233 168	80	\$643.00
199 233 173	80	\$520.00
199 233 174	80	\$530.00

Part Number	Page	List Price
199 233 175	80	\$540.00
199 233 176	80	\$617.00
199 233 177	80	\$638.00
199 233 178	80	\$653.00
199 233 302	81	\$501.00
199 233 303	81	\$502.00
199 233 304	81	\$512.00
199 233 305	81	\$529.00
199 233 306	81	\$598.00
199 233 307	81	\$621.00
199 233 308	81	\$650.00
199 233 312	81	\$505.00
199 233 313	81	\$508.00
199 233 314	81	\$521.00
199 233 315	81	\$540.00
199 233 316	81	\$617.00
199 233 317	81	\$643.00
199 233 318	81	\$690.00
199 233 322	81	\$501.00
199 233 323	81	\$502.00
199 233 324	81	\$512.00
199 233 325	81	\$529.00
199 233 326	81	\$598.00
199 233 327	81	\$621.00
199 233 328	81	\$650.00
199 233 332	81	\$505.00
199 233 333	81	\$508.00
199 233 334	81	\$521.00
199 233 335	81	\$540.00
199 233 336	81	\$617.00
199 233 337	81	\$643.00
199 233 338	81	\$690.00
199 233 342	81	\$475.00
199 233 343	81	\$476.00
199 233 344	81	\$488.00
199 233 345	81	\$501.00
199 233 346	81	\$562.00
199 233 347	81	\$582.00
199 233 348	81	\$614.00
199 233 352	81	\$480.00
199 233 353	81	\$481.00
199 233 354	81	\$497.00
199 233 355	81	\$516.00
199 233 356	81	\$581.00
199 233 357	81	\$607.00
199 233 358	81	\$651.00
199 233 362	81	\$389.00
199 233 363	81	\$390.00
199 233 364	81	\$400.00
199 233 365	81	\$412.00
199 233 366	81	\$488.00

Part Number	Page	List Price
199 233 367	81	\$505.00
199 233 368	81	\$536.00
199 233 369	81	\$1,049.00
199 233 370	81	\$1,240.00
199 233 371	81	\$1,350.00
199 233 372	81	\$392.00
199 233 373	81	\$394.00
199 233 374	81	\$408.00
199 233 375	81	\$428.00
199 233 376	81	\$503.00
199 233 377	81	\$530.00
199 233 378	81	\$579.00
199 233 379	81	\$990.00
199 233 380	81	\$1,181.00
199 233 381	81	\$1,301.00
199 233 382	81	\$389.00
199 233 383	81	\$390.00
199 233 384	81	\$400.00
199 233 385	81	\$412.00
199 233 386	81	\$488.00
199 233 387	81	\$505.00
199 233 388	81	\$536.00
199 233 389	81	\$938.00
199 233 390	81	\$1,107.00
199 233 391	81	\$1,210.00
199 233 392	81	\$392.00
199 233 393	81	\$394.00
199 233 394	81	\$408.00
199 233 395	81	\$428.00
199 233 396	81	\$503.00
199 233 397	81	\$530.00
199 233 398	81	\$579.00
199 233 399	81	\$945.00
199 233 400	81	\$1,123.00
199 233 401	81	\$1,228.00
199 233 402	81	\$363.00
199 233 403	81	\$364.00
199 233 404	81	\$374.00
199 233 405	81	\$389.00
199 233 406	81	\$447.00
199 233 407	81	\$470.00
199 233 408	81	\$500.00
199 233 409	81	\$813.00
199 233 410	81	\$930.00
199 233 411	81	\$1,034.00
199 233 412	81	\$367.00
199 233 413	81	\$369.00
199 233 414	81	\$382.00
199 233 415	81	\$404.00
199 233 416	81	\$468.00
199 233 417	81	\$490.00

Part Number	Page	List Price
199 233 418	81	\$538.00
199 233 419	81	\$872.00
199 233 420	81	\$1,005.00
199 233 421	81	\$1,107.00
199 233 443	82	\$581.00
199 233 444	82	\$592.00
199 233 445	82	\$593.00
199 233 446	82	\$735.00
199 233 447	82	\$756.00
199 233 448	82	\$774.00
199 233 453	82	\$587.00
199 233 454	82	\$600.00
199 233 455	82	\$609.00
199 233 456	82	\$755.00
199 233 457	82	\$771.00
199 233 458	82	\$792.00
199 233 463	82	\$581.00
199 233 464	82	\$592.00
199 233 465	82	\$593.00
199 233 466	82	\$735.00
199 233 467	82	\$756.00
199 233 468	82	\$774.00
199 233 473	82	\$587.00
199 233 474	82	\$600.00
199 233 475	82	\$609.00
199 233 476	82	\$755.00
199 233 477	82	\$771.00
199 233 478	82	\$792.00
199 233 483	82	\$557.00
199 233 484	82	\$565.00
199 233 485	82	\$567.00
199 233 486	82	\$700.00
199 233 487	82	\$717.00
199 233 488	82	\$735.00
199 233 493	82	\$561.00
199 233 494	82	\$578.00
199 233 495	82	\$583.00
199 233 496	82	\$715.00
199 233 497	82	\$734.00
199 233 498	82	\$755.00
199 233 723	80	\$425.00
199 233 724	80	\$432.00
199 233 725	80	\$441.00
199 233 726	80	\$530.00
199 233 727	80	\$548.00
199 233 728	80	\$564.00
199 233 729	80	\$967.00
199 233 730	80	\$1,123.00
199 233 731	80	\$1,204.00
199 233 733	80	\$431.00
199 233 734	80	\$441.00

Part Number	Page	List Price
199 233 735	80	\$453.00
199 233 736	80	\$538.00
199 233 737	80	\$559.00
199 233 738	80	\$579.00
199 233 739	80	\$1,018.00
199 233 740	80	\$1,181.00
199 233 741	80	\$1,285.00
199 233 743	80	\$425.00
199 233 744	80	\$432.00
199 233 745	80	\$441.00
199 233 746	80	\$530.00
199 233 747	80	\$548.00
199 233 748	80	\$564.00
199 233 749	80	\$967.00
199 233 750	80	\$1,123.00
199 233 751	80	\$1,204.00
199 233 753	80	\$431.00
199 233 754	80	\$441.00
199 233 755	80	\$453.00
199 233 756	80	\$538.00
199 233 757	80	\$559.00
199 233 758	80	\$579.00
199 233 759	80	\$1,018.00
199 233 760	80	\$1,181.00
199 233 761	80	\$1,285.00
199 233 763	80	\$400.00
199 233 764	80	\$406.00
199 233 765	80	\$413.00
199 233 766	80	\$490.00
199 233 767	80	\$508.00
199 233 768	80	\$529.00
199 233 769	80	\$834.00
199 233 770	80	\$920.00
199 233 771	80	\$1,005.00
199 233 773	80	\$406.00
199 233 774	80	\$413.00
199 233 775	80	\$426.00
199 233 776	80	\$502.00
199 233 777	80	\$521.00
199 233 778	80	\$538.00
199 233 779	80	\$885.00
199 233 780	80	\$983.00
199 233 781	80	\$1,077.00
199 233 803	82	\$468.00
199 233 804	82	\$477.00
199 233 805	82	\$480.00
199 233 806	82	\$623.00
199 233 807	82	\$643.00
199 233 808	82	\$659.00
199 233 809	82	\$1,137.00
199 233 810	82	\$1,330.00

Part Number	Page	List Price
199 233 811	82	\$1,445.00
199 233 813	82	\$473.00
199 233 814	82	\$489.00
199 233 815	82	\$496.00
199 233 816	82	\$642.00
199 233 817	82	\$658.00
199 233 818	82	\$678.00
199 233 819	82	\$1,137.00
199 233 820	82	\$1,345.00
199 233 821	82	\$1,477.00
199 233 823	82	\$468.00
199 233 824	82	\$477.00
199 233 825	82	\$480.00
199 233 826	82	\$623.00
199 233 827	82	\$643.00
199 233 828	82	\$659.00
199 233 829	82	\$1,137.00
199 233 830	82	\$1,330.00
199 233 831	82	\$1,445.00
199 233 833	82	\$473.00
199 233 834	82	\$489.00
199 233 835	82	\$496.00
199 233 836	82	\$642.00
199 233 837	82	\$658.00
199 233 838	82	\$678.00
199 233 839	82	\$1,181.00
199 233 840	82	\$1,402.00
199 233 841	82	\$1,521.00
199 233 843	82	\$443.00
199 233 844	82	\$453.00
199 233 845	82	\$454.00
199 233 846	82	\$587.00
199 233 847	82	\$607.00
199 233 848	82	\$623.00
199 233 849	82	\$1,005.00
199 233 850	82	\$1,123.00
199 233 851	82	\$1,246.00
199 233 853	82	\$446.00
199 233 854	82	\$462.00
199 233 855	82	\$471.00
199 233 856	82	\$602.00
199 233 857	82	\$622.00
199 233 858	82	\$642.00
199 233 859	82	\$1,049.00
199 233 860	82	\$1,181.00
199 233 861	82	\$1,330.00
199 240 002	102	\$612.00
199 240 003	102	\$619.00
199 240 004	102	\$700.00
199 240 005	102	\$714.00
199 240 006	102	\$935.00

Part Number	Page	List Price
199 240 007	102	\$1,095.00
199 240 008	102	\$1,367.00
199 240 009	102	\$3,698.00
199 240 010	102	\$4,499.00
199 240 022	102	\$693.00
199 240 023	102	\$699.00
199 240 024	102	\$779.00
199 240 025	102	\$802.00
199 240 026	102	\$1,052.00
199 240 027	102	\$1,209.00
199 240 028	102	\$1,431.00
199 240 029	102	\$4,148.00
199 240 030	102	\$5,286.00
199 240 042	102	\$612.00
199 240 043	102	\$619.00
199 240 044	102	\$700.00
199 240 045	102	\$714.00
199 240 046	102	\$935.00
199 240 047	102	\$1,095.00
199 240 048	102	\$1,367.00
199 240 049	102	\$4,098.00
199 240 050	102	\$4,359.00
199 240 062	102	\$693.00
199 240 063	102	\$699.00
199 240 064	102	\$779.00
199 240 065	102	\$802.00
199 240 066	102	\$1,052.00
199 240 067	102	\$1,209.00
199 240 068	102	\$1,431.00
199 240 069	102	\$4,543.00
199 240 070	102	\$5,180.00
199 240 082	102	\$510.00
199 240 083	102	\$517.00
199 240 084	102	\$543.00
199 240 085	102	\$563.00
199 240 086	102	\$624.00
199 240 087	102	\$765.00
199 240 088	102	\$926.00
199 240 089	102	\$2,721.00
199 240 090	102	\$3,185.00
199 240 102	102	\$592.00
199 240 103	102	\$596.00
199 240 104	102	\$624.00
199 240 105	102	\$650.00
199 240 106	102	\$744.00
199 240 107	102	\$879.00
199 240 108	102	\$991.00
199 240 109	102	\$3,171.00
199 240 110	102	\$4,009.00
199 240 162	102	\$748.00
199 240 163	102	\$785.00

Part Number	Page	List Price
199 240 164	102	\$926.00
199 240 165	102	\$991.00
199 240 166	102	\$1,233.00
199 240 167	102	\$1,488.00
199 240 168	102	\$1,794.00
199 240 182	102	\$794.00
199 240 183	102	\$848.00
199 240 184	102	\$991.00
199 240 185	102	\$1,061.00
199 240 186	102	\$1,324.00
199 240 187	102	\$1,571.00
199 240 188	102	\$1,899.00
199 240 202	102	\$748.00
199 240 203	102	\$785.00
199 240 204	102	\$926.00
199 240 205	102	\$991.00
199 240 206	102	\$1,233.00
199 240 207	102	\$1,488.00
199 240 208	102	\$1,794.00
199 240 222	102	\$794.00
199 240 223	102	\$848.00
199 240 224	102	\$991.00
199 240 225	102	\$1,061.00
199 240 226	102	\$1,324.00
199 240 227	102	\$1,571.00
199 240 228	102	\$1,899.00
199 240 242	102	\$648.00
199 240 243	102	\$682.00
199 240 244	102	\$770.00
199 240 245	102	\$838.00
199 240 246	102	\$923.00
199 240 247	102	\$1,159.00
199 240 248	102	\$1,351.00
199 240 262	102	\$692.00
199 240 263	102	\$746.00
199 240 264	102	\$833.00
199 240 265	102	\$907.00
199 240 266	102	\$1,012.00
199 240 267	102	\$1,241.00
199 240 268	102	\$1,458.00
199 240 282	103	\$693.00
199 240 283	103	\$709.00
199 240 284	103	\$758.00
199 240 285	103	\$814.00
199 240 286	103	\$1,029.00
199 240 287	103	\$1,175.00
199 240 288	103	\$1,398.00
199 240 289	103	\$3,481.00
199 240 290	103	\$4,406.00
199 240 302	103	\$735.00
199 240 303	103	\$785.00

Part Number	Page	List Price
199 240 304	103	\$835.00
199 240 305	103	\$907.00
199 240 306	103	\$1,144.00
199 240 307	103	\$1,360.00
199 240 308	103	\$1,554.00
199 240 309	103	\$3,838.00
199 240 310	103	\$4,868.00
199 240 322	103	\$658.00
199 240 323	103	\$709.00
199 240 324	103	\$758.00
199 240 325	103	\$814.00
199 240 326	103	\$1,029.00
199 240 327	103	\$1,175.00
199 240 328	103	\$1,398.00
199 240 329	103	\$3,803.00
199 240 330	103	\$4,318.00
199 240 342	103	\$735.00
199 240 343	103	\$785.00
199 240 344	103	\$835.00
199 240 345	103	\$907.00
199 240 346	103	\$1,144.00
199 240 347	103	\$1,360.00
199 240 348	103	\$1,554.00
199 240 349	103	\$4,151.00
199 240 350	103	\$4,782.00
199 240 362	103	\$542.00
199 240 363	103	\$609.00
199 240 364	103	\$657.00
199 240 365	103	\$718.00
199 240 366	103	\$819.00
199 240 367	103	\$987.00
199 240 368	103	\$1,124.00
199 240 369	103	\$2,705.00
199 240 370	103	\$3,381.00
199 240 371	103	Call
199 240 372	103	Call
199 240 373	103	Call
199 240 374	103	Call
199 240 375	103	Call
199 240 382	103	\$659.00
199 240 383	103	\$681.00
199 240 384	103	\$734.00
199 240 385	103	\$815.00
199 240 386	103	\$938.00
199 240 387	103	\$1,173.00
199 240 388	103	\$1,281.00
199 240 389	103	\$3,067.00
199 240 390	103	\$3,844.00
199 240 391	103	Call
199 240 392	103	Call
199 240 393	103	Call

Part Number	Page	List Price
199 240 394	103	Call
199 240 395	103	Call
199 240 462	104	\$1,087.00
199 240 463	104	\$1,230.00
199 240 464	104	\$1,466.00
199 240 465	104	\$1,633.00
199 240 466	104	\$2,083.00
199 240 467	104	\$2,551.00
199 240 468	104	\$3,191.00
199 240 469	104	\$5,660.00
199 240 470	104	\$7,172.00
199 240 482	104	\$1,087.00
199 240 483	104	\$1,230.00
199 240 484	104	\$1,466.00
199 240 485	104	\$1,633.00
199 240 486	104	\$2,083.00
199 240 487	104	\$2,551.00
199 240 488	104	\$3,191.00
199 240 489	104	\$6,004.00
199 240 490	104	\$7,088.00
199 240 502	104	\$984.00
199 240 503	104	\$1,121.00
199 240 504	104	\$1,303.00
199 240 505	104	\$1,478.00
199 240 506	104	\$1,757.00
199 240 507	104	\$2,206.00
199 240 508	104	\$2,730.00
199 240 509	104	\$4,850.00
199 240 510	104	\$6,110.00
199 240 522	104	\$1,627.00
199 240 523	104	\$1,809.00
199 240 524	104	\$2,073.00
199 240 525	104	\$2,644.00
199 240 526	104	\$3,214.00
199 240 527	104	\$3,783.00
199 240 528	104	\$5,813.00
199 240 542	104	\$1,627.00
199 240 543	104	\$1,809.00
199 240 544	104	\$2,073.00
199 240 545	104	\$2,644.00
199 240 546	104	\$3,214.00
199 240 547	104	\$3,783.00
199 240 548	104	\$5,813.00
199 240 562	104	\$1,349.00
199 240 563	104	\$1,421.00
199 240 564	104	\$1,556.00
199 240 565	104	\$1,962.00
199 240 566	104	\$2,669.00
199 240 567	104	\$2,996.00
199 240 568	104	\$4,194.00
199 244 002	105	\$1,018.00

Part Number	Page	List Price
199 244 003	105	\$1,069.00
199 244 004	105	\$1,104.00
199 244 005	105	\$1,543.00
199 244 006	105	\$1,980.00
199 244 007	105	\$2,140.00
199 244 008	105	\$2,727.00
199 244 009	105	\$4,590.00
199 244 010	105	\$5,355.00
199 244 022	105	\$1,087.00
199 244 023	105	\$1,128.00
199 244 024	105	\$1,177.00
199 244 025	105	\$1,663.00
199 244 026	105	\$2,173.00
199 244 027	105	\$2,330.00
199 244 028	105	\$2,976.00
199 244 029	105	\$4,616.00
199 244 030	105	\$5,819.00
199 244 042	105	\$1,018.00
199 244 043	105	\$1,082.00
199 244 044	105	\$1,104.00
199 244 045	105	\$1,543.00
199 244 046	105	\$1,980.00
199 244 047	105	\$2,140.00
199 244 048	105	\$2,727.00
199 244 049	105	\$4,990.00
199 244 050	105	\$5,215.00
199 244 062	105	\$1,087.00
199 244 063	105	\$1,110.00
199 244 064	105	\$1,177.00
199 244 065	105	\$1,663.00
199 244 066	105	\$2,173.00
199 244 067	105	\$2,330.00
199 244 068	105	\$2,976.00
199 244 069	105	\$5,011.00
199 244 070	105	\$5,713.00
199 244 082	105	\$916.00
199 244 083	105	\$935.00
199 244 084	105	\$947.00
199 244 085	105	\$1,392.00
199 244 086	105	\$1,669.00
199 244 087	105	\$1,810.00
199 244 088	105	\$2,286.00
199 244 089	105	\$3,613.00
199 244 090	105	\$4,041.00
199 244 102	105	\$986.00
199 244 103	105	\$1,007.00
199 244 104	105	\$1,022.00
199 244 105	105	\$1,511.00
199 244 106	105	\$1,865.00
199 244 107	105	\$2,000.00
199 244 108	105	\$2,536.00

Part Number	Page	List Price
199 244 109	105	\$3,639.00
199 244 110	105	\$4,542.00
199 244 162	105	\$1,224.00
199 244 163	105	\$1,294.00
199 244 164	105	\$1,342.00
199 244 165	105	\$1,958.00
199 244 166	105	\$2,456.00
199 244 167	105	\$2,711.00
199 244 168	105	\$3,493.00
199 244 169	105	\$7,563.24
199 244 170	105	\$8,994.12
199 244 182	105	\$1,329.00
199 244 183	105	\$1,385.00
199 244 184	105	\$1,409.00
199 244 185	105	\$2,158.00
199 244 186	105	\$2,744.00
199 244 187	105	\$2,991.00
199 244 188	105	\$3,879.00
199 244 189	105	\$8,399.93
199 244 190	105	\$9,401.66
199 244 202	105	\$1,124.00
199 244 203	105	\$1,149.00
199 244 204	105	\$1,186.00
199 244 205	105	\$1,805.00
199 244 206	105	\$2,146.00
199 244 207	105	\$2,382.00
199 244 208	105	\$3,050.00
199 244 209	105	\$6,604.03
199 244 210	105	\$7,853.44
199 244 222	105	\$1,227.00
199 244 223	105	\$1,251.00
199 244 224	105	\$1,273.00
199 244 225	105	\$2,004.00
199 244 226	105	\$2,432.00
199 244 227	105	\$2,661.00
199 244 228	105	\$3,438.00
199 244 229	105	\$7,444.95
199 244 230	105	\$8,332.80
199 244 242	105	\$1,224.00
199 244 243	105	\$1,299.00
199 244 244	105	\$1,342.00
199 244 245	105	\$1,958.00
199 244 246	105	\$2,456.00
199 244 247	105	\$2,711.00
199 244 248	105	\$3,493.00
199 244 249	105	\$7,563.24
199 244 250	105	\$8,994.12
199 244 262	105	\$1,329.00
199 244 263	105	\$1,385.00
199 244 264	105	\$1,409.00
199 244 265	105	\$2,158.00

Part Number	Page	List Price
199 244 266	105	\$2,744.00
199 244 267	105	\$2,991.00
199 244 268	105	\$3,879.00
199 244 269	105	\$8,399.93
199 244 270	105	\$9,401.66
199 244 282	106	\$1,318.00
199 244 283	106	\$1,498.00
199 244 284	106	\$1,585.00
199 244 285	106	\$1,898.00
199 244 286	106	\$2,642.00
199 244 287	106	\$2,788.00
199 244 288	106	\$3,481.00
199 244 289	106	\$4,848.00
199 244 290	106	\$6,234.00
199 244 302	106	\$1,347.00
199 244 303	106	\$1,653.00
199 244 304	106	\$1,669.00
199 244 305	106	\$1,962.00
199 244 306	106	\$3,225.00
199 244 307	106	\$3,441.00
199 244 308	106	\$3,764.00
199 244 309	106	\$5,723.00
199 244 310	106	\$7,483.00
199 244 322	106	\$1,283.00
199 244 323	106	\$1,498.00
199 244 324	106	\$1,585.00
199 244 325	106	\$1,898.00
199 244 326	106	\$2,642.00
199 244 327	106	\$2,788.00
199 244 328	106	\$3,481.00
199 244 329	106	\$5,170.00
199 244 330	106	\$6,146.00
199 244 342	106	\$1,347.00
199 244 343	106	\$1,632.00
199 244 344	106	\$1,669.00
199 244 345	106	\$1,962.00
199 244 346	106	\$3,225.00
199 244 347	106	\$3,441.00
199 244 348	106	\$3,764.00
199 244 349	106	\$6,036.00
199 244 350	106	\$7,397.00
199 244 362	106	\$1,167.00
199 244 363	106	\$1,398.00
199 244 364	106	\$1,484.00
199 244 365	106	\$1,802.00
199 244 366	106	\$2,432.00
199 244 367	106	\$2,600.00
199 244 368	106	\$3,207.00
199 244 369	106	\$4,072.00
199 244 370	106	\$5,209.00
199 244 382	106	\$1,271.00

Part Number	Page	List Price
199 244 383	106	\$1,528.00
199 244 384	106	\$1,568.00
199 244 385	106	\$1,870.00
199 244 386	106	\$3,019.00
199 244 387	106	\$3,254.00
199 244 388	106	\$3,491.00
199 244 389	106	\$4,952.00
199 244 390	106	\$6,459.00
199 244 462	106	\$1,496.00
199 244 463	106	\$1,756.00
199 244 464	106	\$1,808.00
199 244 465	106	\$2,065.00
199 244 466	106	\$3,060.00
199 244 467	106	\$3,528.00
199 244 468	106	\$3,960.00
199 244 469	106	\$6,421.00
199 244 470	106	\$8,478.00
199 244 482	106	\$1,496.00
199 244 483	106	\$1,781.00
199 244 484	106	\$1,808.00
199 244 485	106	\$2,065.00
199 244 486	106	\$3,060.00
199 244 487	106	\$3,528.00
199 244 488	106	\$3,960.00
199 244 489	106	\$6,765.00
199 244 490	106	\$8,394.00
199 244 502	106	\$1,393.00
199 244 503	106	\$1,697.00
199 244 504	106	\$1,754.00
199 244 505	106	\$1,910.00
199 244 506	106	\$2,734.00
199 244 507	106	\$3,183.00
199 244 508	106	\$3,499.00
199 244 509	106	\$5,611.00
199 244 510	106	\$7,416.00
199 244 522	106	\$2,196.00
199 244 523	106	\$2,449.00
199 244 524	106	\$2,492.00
199 244 525	106	\$3,625.00
199 244 526	106	\$5,176.00
199 244 527	106	\$5,745.00
199 244 528	106	\$9,978.00
199 244 529	106	\$10,210.38
199 244 530	106	\$13,066.03
199 244 542	106	\$2,196.00
199 244 543	106	\$2,449.00
199 244 544	106	\$2,492.00
199 244 545	106	\$3,625.00
199 244 546	106	\$5,176.00
199 244 547	106	\$5,745.00
199 244 548	106	\$9,978.00

Part Number	Page	List Price
199 244 549	106	\$10,210.38
199 244 550	106	\$13,066.03
199 244 562	106	\$1,918.00
199 244 563	106	\$2,112.00
199 244 564	106	\$2,211.00
199 244 565	106	\$2,943.00
199 244 566	106	\$4,631.00
199 244 567	106	\$4,958.00
199 244 568	106	\$8,359.00
199 244 569	106	\$8,553.68
199 244 570	106	\$10,945.98
199 285 362	94	\$505.00
199 285 363	94	\$507.00
199 285 364	94	\$525.00
199 285 365	94	\$545.00
199 285 366	94	\$610.00
199 285 367	94	\$679.00
199 285 368	94	\$718.00
199 285 372	94	\$516.00
199 285 373	94	\$517.00
199 285 374	94	\$533.00
199 285 375	94	\$560.00
199 285 376	94	\$623.00
199 285 377	94	\$700.00
199 285 378	94	\$755.00
199 285 382	94	\$505.00
199 285 383	94	\$507.00
199 285 384	94	\$525.00
199 285 385	94	\$545.00
199 285 386	94	\$610.00
199 285 387	94	\$679.00
199 285 388	94	\$718.00
199 285 392	94	\$516.00
199 285 393	94	\$517.00
199 285 394	94	\$533.00
199 285 395	94	\$560.00
199 285 396	94	\$623.00
199 285 397	94	\$700.00
199 285 398	94	\$755.00
199 285 402	94	\$505.00
199 285 403	94	\$507.00
199 285 404	94	\$525.00
199 285 405	94	\$545.00
199 285 406	94	\$610.00
199 285 407	94	\$679.00
199 285 408	94	\$718.00
199 285 412	94	\$516.00
199 285 413	94	\$517.00
199 285 414	94	\$533.00
199 285 415	94	\$560.00
199 285 416	94	\$623.00

Part Number	Page	List Price
199 285 417	94	\$700.00
199 285 418	94	\$755.00
199 285 422	94	\$505.00
199 285 423	94	\$507.00
199 285 424	94	\$525.00
199 285 425	94	\$545.00
199 285 426	94	\$610.00
199 285 427	94	\$679.00
199 285 428	94	\$718.00
199 285 432	94	\$516.00
199 285 433	94	\$517.00
199 285 434	94	\$533.00
199 285 435	94	\$560.00
199 285 436	94	\$623.00
199 285 437	94	\$700.00
199 285 438	94	\$755.00
199 285 442	95	\$536.00
199 285 443	95	\$536.00
199 285 444	95	\$564.00
199 285 445	95	\$627.00
199 285 446	95	\$695.00
199 285 447	95	\$774.00
199 285 448	95	\$869.00
199 285 452	95	\$552.00
199 285 453	95	\$552.00
199 285 454	95	\$578.00
199 285 455	95	\$627.00
199 285 456	95	\$714.00
199 285 457	95	\$813.00
199 285 458	95	\$936.00
199 285 462	95	\$536.00
199 285 463	95	\$536.00
199 285 464	95	\$564.00
199 285 465	95	\$627.00
199 285 466	95	\$695.00
199 285 467	95	\$774.00
199 285 468	95	\$869.00
199 285 472	95	\$552.00
199 285 473	95	\$552.00
199 285 474	95	\$578.00
199 285 475	95	\$627.00
199 285 476	95	\$714.00
199 285 477	95	\$813.00
199 285 478	95	\$936.00
199 285 482	95	\$536.00
199 285 483	95	\$536.00
199 285 484	95	\$564.00
199 285 485	95	\$627.00
199 285 486	95	\$695.00
199 285 487	95	\$774.00
199 285 488	95	\$869.00

Part Number	Page	List Price
199 285 492	95	\$552.00
199 285 493	95	\$552.00
199 285 494	95	\$578.00
199 285 495	95	\$627.00
199 285 496	95	\$714.00
199 285 497	95	\$813.00
199 285 498	95	\$936.00
199 285 502	95	\$536.00
199 285 503	95	\$536.00
199 285 504	95	\$564.00
199 285 505	95	\$627.00
199 285 506	95	\$695.00
199 285 507	95	\$774.00
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199 285 515	95	\$627.00
199 285 516	95	\$714.00
199 285 517	95	\$813.00
199 285 518	95	\$936.00
199 285 522	94	\$505.00
199 285 523	94	\$507.00
199 285 524	94	\$525.00
199 285 525	94	\$545.00
199 285 526	94	\$610.00
199 285 527	94	\$679.00
199 285 528	94	\$718.00
199 285 532	94	\$516.00
199 285 533	94	\$517.00
199 285 534	94	\$533.00
199 285 535	94	\$560.00
199 285 536	94	\$623.00
199 285 537	94	\$700.00
199 285 538	94	\$755.00
199 285 542	94	\$505.00
199 285 543	94	\$507.00
199 285 544	94	\$525.00
199 285 545	94	\$545.00
199 285 546	94	\$610.00
199 285 547	94	\$679.00
199 285 548	94	\$718.00
199 285 552	94	\$516.00
199 285 553	94	\$517.00
199 285 554	94	\$533.00
199 285 555	94	\$560.00
199 285 556	94	\$623.00
199 285 557	94	\$700.00
199 285 558	94	\$755.00
199 285 562	94	\$505.00
199 285 563	94	\$507.00

Part Number	Page	List Price
199 285 564	94	\$525.00
199 285 565	94	\$545.00
199 285 566	94	\$610.00
199 285 567	94	\$679.00
199 285 568	94	\$718.00
199 285 572	94	\$516.00
199 285 573	94	\$517.00
199 285 574	94	\$533.00
199 285 575	94	\$560.00
199 285 576	94	\$623.00
199 285 577	94	\$700.00
199 285 578	94	\$755.00
199 285 582	94	\$505.00
199 285 583	94	\$507.00
199 285 584	94	\$525.00
199 285 585	94	\$545.00
199 285 586	94	\$610.00
199 285 587	94	\$679.00
199 285 588	94	\$718.00
199 285 592	94	\$516.00
199 285 593	94	\$517.00
199 285 594	94	\$533.00
199 285 595	94	\$560.00
199 285 596	94	\$623.00
199 285 597	94	\$700.00
199 285 598	94	\$755.00
199 285 922	95	\$536.00
199 285 923	95	\$536.00
199 285 924	95	\$564.00
199 285 925	95	\$627.00
199 285 926	95	\$695.00
199 285 927	95	\$774.00
199 285 928	95	\$869.00
199 285 932	95	\$552.00
199 285 933	95	\$552.00
199 285 934	95	\$578.00
199 285 935	95	\$627.00
199 285 936	95	\$714.00
199 285 937	95	\$813.00
199 285 938	95	\$936.00
199 285 942	95	\$536.00
199 285 943	95	\$536.00
199 285 944	95	\$564.00
199 285 945	95	\$627.00
199 285 946	95	\$695.00
199 285 947	95	\$774.00
199 285 948	95	\$869.00
199 285 952	95	\$552.00
199 285 953	95	\$552.00
199 285 954	95	\$578.00
199 285 955	95	\$627.00

Part Number	Page	List Price
199 285 956	95	\$714.00
199 285 957	95	\$813.00
199 285 958	95	\$936.00
199 285 962	95	\$536.00
199 285 963	95	\$536.00
199 285 964	95	\$564.00
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199 285 966	95	\$695.00
199 285 967	95	\$774.00
199 285 968	95	\$869.00
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199 285 978	95	\$936.00
199 285 982	95	\$536.00
199 285 983	95	\$536.00
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199 285 985	95	\$627.00
199 285 986	95	\$695.00
199 285 987	95	\$774.00
199 285 988	95	\$869.00
199 285 992	95	\$552.00
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199 286 022	96	\$543.00
199 286 023	96	\$543.00
199 286 024	96	\$578.00
199 286 025	96	\$621.00
199 286 026	96	\$726.00
199 286 027	96	\$816.00
199 286 028	96	\$918.00
199 286 032	96	\$574.00
199 286 033	96	\$574.00
199 286 034	96	\$593.00
199 286 035	96	\$657.00
199 286 036	96	\$756.00
199 286 037	96	\$859.00
199 286 038	96	\$987.00
199 286 062	97	\$543.00
199 286 063	97	\$543.00
199 286 064	97	\$578.00
199 286 065	97	\$621.00
199 286 066	97	\$726.00
199 286 067	97	\$816.00

Part Number	Page	List Price
199 286 068	97	\$918.00
199 286 072	97	\$574.00
199 286 073	97	\$574.00
199 286 074	97	\$593.00
199 286 075	97	\$643.00
199 286 076	97	\$756.00
199 286 077	97	\$859.00
199 286 078	97	\$987.00
199 286 083	96	\$550.00
199 286 084	96	\$578.00
199 286 085	96	\$623.00
199 286 086	96	\$726.00
199 286 087	96	\$816.00
199 286 088	96	\$918.00
199 286 093	96	\$580.00
199 286 094	96	\$608.00
199 286 095	96	\$670.00
199 286 096	96	\$756.00
199 286 097	96	\$859.00
199 286 098	96	\$987.00
199 286 103	97	\$543.00
199 286 104	97	\$578.00
199 286 105	97	\$621.00
199 286 106	97	\$726.00
199 286 107	97	\$816.00
199 286 108	97	\$918.00
199 286 113	97	\$574.00
199 286 114	97	\$593.00
199 286 115	97	\$643.00
199 286 116	97	\$756.00
199 286 117	97	\$859.00
199 286 118	97	\$987.00
199 286 182	96	\$543.00
199 286 183	96	\$543.00
199 286 184	96	\$578.00
199 286 185	96	\$621.00
199 286 186	96	\$726.00
199 286 187	96	\$816.00
199 286 188	96	\$918.00
199 286 192	96	\$574.00
199 286 193	96	\$574.00
199 286 194	96	\$593.00
199 286 195	96	\$643.00
199 286 196	96	\$756.00
199 286 197	96	\$859.00
199 286 198	96	\$987.00
199 286 222	97	\$543.00
199 286 223	97	\$543.00
199 286 224	97	\$578.00
199 286 225	97	\$621.00
199 286 226	97	\$726.00

Part Number	Page	List Price
199 286 227	97	\$816.00
199 286 228	97	\$918.00
199 286 232	97	\$574.00
199 286 233	97	\$574.00
199 286 234	97	\$593.00
199 286 235	97	\$643.00
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199 286 237	97	\$859.00
199 286 238	97	\$987.00
199 286 243	96	\$543.00
199 286 244	96	\$578.00
199 286 245	96	\$621.00
199 286 246	96	\$726.00
199 286 247	96	\$816.00
199 286 248	96	\$918.00
199 286 253	96	\$574.00
199 286 254	96	\$593.00
199 286 255	96	\$651.00
199 286 256	96	\$756.00
199 286 257	96	\$859.00
199 286 258	96	\$987.00
199 286 263	97	\$543.00
199 286 264	97	\$578.00
199 286 265	97	\$621.00
199 286 266	97	\$750.00
199 286 267	97	\$816.00
199 286 268	97	\$918.00
199 286 273	97	\$574.00
199 286 274	97	\$593.00
199 286 275	97	\$643.00
199 286 276	97	\$756.00
199 286 277	97	\$859.00
199 286 278	97	\$987.00
199 286 322	96	\$543.00
199 286 323	96	\$543.00
199 286 324	96	\$578.00
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199 286 332	96	\$574.00
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199 286 335	96	\$643.00
199 286 336	96	\$779.00
199 286 337	96	\$890.00
199 286 338	96	\$1,001.00
199 286 342	97	\$543.00
199 286 343	97	\$543.00
199 286 344	97	\$578.00
199 286 345	97	\$621.00

Part Number	Page	List Price
199 286 346	97	\$726.00
199 286 347	97	\$816.00
199 286 348	97	\$918.00
199 286 352	97	\$574.00
199 286 353	97	\$574.00
199 286 354	97	\$593.00
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199 286 358	97	\$1,001.00
199 286 362	96	\$543.00
199 286 363	96	\$543.00
199 286 364	96	\$578.00
199 286 365	96	\$621.00
199 286 366	96	\$726.00
199 286 367	96	\$816.00
199 286 368	96	\$918.00
199 286 372	96	\$574.00
199 286 373	96	\$574.00
199 286 374	96	\$593.00
199 286 375	96	\$643.00
199 286 376	96	\$756.00
199 286 377	96	\$863.00
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199 286 393	97	\$574.00
199 286 394	97	\$593.00
199 286 395	97	\$643.00
199 286 396	97	\$756.00
199 286 397	97	\$863.00
199 286 398	97	\$987.00
199 287 053	98	\$748.00
199 287 054	98	\$845.00
199 287 055	98	\$982.00
199 287 056	98	\$1,198.00
199 287 057	98	\$1,410.00
199 287 058	98	\$1,795.00
199 287 073	98	\$785.00
199 287 074	98	\$886.00
199 287 075	98	\$1,030.00
199 287 076	98	\$1,258.00
199 287 077	98	\$1,480.00
199 287 078	98	\$1,885.00
199 287 092	98	\$748.00

Part Number	Page	List Price
199 287 093	98	\$748.00
199 287 094	98	\$845.00
199 287 095	98	\$982.00
199 287 096	98	\$1,198.00
199 287 097	98	\$1,410.00
199 287 098	98	\$1,795.00
199 287 112	98	\$785.00
199 287 113	98	\$785.00
199 287 114	98	\$886.00
199 287 115	98	\$1,030.00
199 287 116	98	\$1,258.00
199 287 117	98	\$1,480.00
199 287 118	98	\$1,885.00
199 287 173	98	\$785.00
199 287 174	98	\$886.00
199 287 175	98	\$1,030.00
199 287 176	98	\$1,258.00
199 287 177	98	\$1,480.00
199 287 178	98	\$1,885.00
199 287 193	98	\$785.00
199 287 194	98	\$886.00
199 287 195	98	\$1,030.00
199 287 196	98	\$1,258.00
199 287 197	98	\$1,480.00
199 287 198	98	\$1,885.00
199 287 212	98	\$785.00
199 287 213	98	\$785.00
199 287 214	98	\$886.00
199 287 215	98	\$1,030.00
199 287 216	98	\$1,258.00
199 287 217	98	\$1,480.00
199 287 218	98	\$1,885.00
199 287 232	98	\$785.00
199 287 233	98	\$785.00
199 287 234	98	\$886.00
199 287 235	98	\$1,030.00
199 287 236	98	\$1,258.00
199 287 237	98	\$1,480.00
199 287 238	98	\$1,885.00
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199 287 243	98	\$748.00
199 287 244	98	\$845.00
199 287 245	98	\$982.00
199 287 246	98	\$1,198.00
199 287 247	98	\$1,410.00
199 287 248	98	\$1,795.00
199 287 252	98	\$785.00
199 287 253	98	\$785.00
199 287 254	98	\$886.00
199 287 255	98	\$1,030.00
199 287 256	98	\$1,258.00

Part Number	Page	List Price
199 287 257	98	\$1,480.00
199 287 258	98	\$1,885.00
199 287 262	98	\$785.00
199 287 263	98	\$785.00
199 287 264	98	\$886.00
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199 287 266	98	\$1,258.00
199 287 267	98	\$1,480.00
199 287 268	98	\$1,885.00
199 287 272	98	\$785.00
199 287 273	98	\$785.00
199 287 274	98	\$886.00
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199 287 277	98	\$1,480.00
199 287 278	98	\$1,885.00
199 288 492	92	\$632.00
199 288 493	92	\$634.00
199 288 494	92	\$652.00
199 288 495	92	\$672.00
199 288 496	92	\$737.00
199 288 497	92	\$806.00
199 288 498	92	\$845.00
199 288 502	92	\$643.00
199 288 503	92	\$644.00
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199 288 513	92	\$634.00
199 288 514	92	\$652.00
199 288 515	92	\$672.00
199 288 516	92	\$737.00
199 288 517	92	\$806.00
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199 288 522	92	\$643.00
199 288 523	92	\$644.00
199 288 524	92	\$660.00
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199 288 526	92	\$750.00
199 288 527	92	\$827.00
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199 288 532	92	\$632.00
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199 288 534	92	\$652.00
199 288 535	92	\$672.00
199 288 536	92	\$737.00
199 288 537	92	\$806.00
199 288 538	92	\$845.00

Part Number	Page	List Price
199 288 542	92	\$643.00
199 288 543	92	\$644.00
199 288 544	92	\$660.00
199 288 545	92	\$687.00
199 288 546	92	\$750.00
199 288 547	92	\$827.00
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199 288 554	92	\$525.00
199 288 555	92	\$545.00
199 288 556	92	\$610.00
199 288 557	92	\$679.00
199 288 558	92	\$718.00
199 288 562	92	\$516.00
199 288 563	92	\$517.00
199 288 564	92	\$533.00
199 288 565	92	\$560.00
199 288 566	92	\$623.00
199 288 567	92	\$700.00
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199 288 574	92	\$525.00
199 288 575	92	\$545.00
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199 288 582	92	\$516.00
199 288 583	92	\$517.00
199 288 584	92	\$533.00
199 288 585	92	\$560.00
199 288 586	92	\$623.00
199 288 587	92	\$700.00
199 288 588	92	\$755.00
199 288 592	92	\$505.00
199 288 593	92	\$507.00
199 288 594	92	\$525.00
199 288 595	92	\$545.00
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199 288 597	92	\$679.00
199 288 598	92	\$718.00
199 288 602	92	\$516.00
199 288 603	92	\$517.00
199 288 604	92	\$533.00
199 288 605	92	\$560.00
199 288 606	92	\$623.00
199 288 607	92	\$700.00
199 288 608	92	\$755.00
199 288 612	93	\$632.00
199 288 613	93	\$634.00

Part Number	Page	List Price
199 288 614	93	\$652.00
199 288 615	93	\$672.00
199 288 616	93	\$737.00
199 288 617	93	\$806.00
199 288 618	93	\$845.00
199 288 622	93	\$643.00
199 288 623	93	\$644.00
199 288 624	93	\$660.00
199 288 625	93	\$687.00
199 288 626	93	\$750.00
199 288 627	93	\$827.00
199 288 628	93	\$882.00
199 288 632	93	\$632.00
199 288 633	93	\$634.00
199 288 634	93	\$652.00
199 288 635	93	\$672.00
199 288 636	93	\$737.00
199 288 637	93	\$806.00
199 288 638	93	\$845.00
199 288 642	93	\$643.00
199 288 643	93	\$644.00
199 288 644	93	\$660.00
199 288 645	93	\$687.00
199 288 646	93	\$750.00
199 288 647	93	\$827.00
199 288 648	93	\$882.00
199 288 652	93	\$632.00
199 288 653	93	\$634.00
199 288 654	93	\$652.00
199 288 655	93	\$672.00
199 288 656	93	\$737.00
199 288 657	93	\$806.00
199 288 658	93	\$845.00
199 288 662	93	\$643.00
199 288 663	93	\$644.00
199 288 664	93	\$660.00
199 288 665	93	\$687.00
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199 288 667	93	\$827.00
199 288 668	93	\$882.00
199 288 672	93	\$505.00
199 288 673	93	\$507.00
199 288 674	93	\$525.00
199 288 675	93	\$545.00
199 288 676	93	\$610.00
199 288 677	93	\$679.00
199 288 678	93	\$718.00
199 288 682	93	\$516.00
199 288 683	93	\$517.00
199 288 684	93	\$533.00
199 288 685	93	\$560.00

Part Number	Page	List Price
199 288 686	93	\$623.00
199 288 687	93	\$700.00
199 288 688	93	\$755.00
199 288 692	93	\$505.00
199 288 693	93	\$507.00
199 288 694	93	\$525.00
199 288 695	93	\$545.00
199 288 696	93	\$610.00
199 288 697	93	\$679.00
199 288 698	93	\$718.00
199 288 702	93	\$516.00
199 288 703	93	\$517.00
199 288 704	93	\$533.00
199 288 705	93	\$560.00
199 288 706	93	\$623.00
199 288 707	93	\$700.00
199 288 708	93	\$755.00
199 288 712	93	\$505.00
199 288 713	93	\$507.00
199 288 714	93	\$525.00
199 288 715	93	\$545.00
199 288 716	93	\$610.00
199 288 717	93	\$679.00
199 288 718	93	\$718.00
199 288 722	93	\$516.00
199 288 723	93	\$517.00
199 288 724	93	\$533.00
199 288 725	93	\$560.00
199 288 726	93	\$623.00
199 288 727	93	\$700.00
199 288 728	93	\$755.00
700 251 574	142	\$105.00
700 251 575	142	\$151.00
700 251 576	142	\$151.00
700 251 577	142	\$211.00
700 251 578	142	\$211.00
700 251 579	142	\$373.00
700 251 580	142	\$373.00
700 259 430	144	\$30.00
721 500 105	144	\$1.00
721 500 106	144	\$1.00
721 500 108	144	\$2.00
721 500 110	144	\$4.00
721 500 111	144	\$6.00
721 500 112	144	\$16.00
721 602 005	144	\$1.00
721 602 006	38	\$2.00
721 602 007	38	\$2.00
721 602 008	38	\$2.00
721 602 009	38	\$2.00
721 602 010	38	\$4.00

Part Number	Page	List Price
721 602 011	38	\$6.00
721 602 656	38	\$5.00
721 602 657	38	\$6.00
721 602 658	38	\$7.00
721 602 659	38	\$23.00
721 602 660	38	\$19.00
721 602 661	38	\$19.00
721 890 005	145	\$2.00
721 890 006	38	\$3.00
721 890 007	38	\$3.00
721 890 008	38	\$4.00
721 890 009	38	\$5.00
721 890 010	38	\$7.00
721 890 011	38	\$10.00
723 602 006	144	\$3.00
723 602 007	144	\$3.00
723 602 008	144	\$4.00
723 602 009	144	\$4.00
723 602 010	144	\$7.00
723 602 011	144	\$10.00
723 690 006	38	\$5.00
723 690 007	38	\$5.00
723 690 008	38	\$7.00
723 690 009	38	\$7.00
723 690 010	38	\$10.00
723 690 011	38	\$15.00
727 500 105	144	\$3.00
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727 500 107	38	\$4.00
727 500 108	38	\$5.00
727 500 109	38	\$6.00
727 500 110	38	\$7.00
727 500 111	38	\$8.00
727 500 112	144	\$40.00
727 508 506	144	\$8.00
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727 508 510	144	\$21.00
727 508 511	144	\$23.00
727 890 405	145	\$16.00
727 890 406	38	\$18.00
727 890 407	38	\$17.00
727 890 408	38	\$22.00
727 890 409	38	\$28.00
727 890 410	38	\$45.00
727 890 411	38	\$71.00
728 608 506	144	\$12.00
728 608 507	38	\$15.00
728 608 508	144	\$15.00
728 608 509	38	\$22.00

Part Number	Page	List Price
728 608 510	144	\$23.00
728 608 511	144	\$33.00
735 500 105	144	\$15.00
735 500 106	38	\$15.00
735 500 107	38	\$17.00
735 500 108	38	\$20.00
735 500 109	38	\$29.00
735 500 110	38	\$33.00
735 500 111	38	\$45.00
735 500 112	144	\$47.00
735 608 606	38	\$18.00
735 608 607	38	\$21.00
735 608 608	38	\$28.00
735 608 609	38	\$33.00
735 608 610	38	\$38.00
735 608 611	38	\$54.00
735 690 405	145	\$23.00
735 690 406	38	\$25.00
735 690 407	38	\$32.00
735 690 408	38	\$41.00
735 690 409	38	\$58.00
735 690 410	38	\$86.00
735 690 411	38	\$135.00
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745 500 014	37	\$34.00
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745 500 016	37	\$59.00
745 500 017	37	\$82.00
747 502 012	37	\$106.00
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747 502 014	37	\$149.00
747 502 015	37	\$176.00
747 502 016	37	\$186.00
747 502 017	37	\$268.00
747 502 032	37	\$129.00
747 502 033	37	\$136.00
747 502 034	37	\$162.00
747 502 035	37	\$196.00
747 502 036	37	\$214.00
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747 503 012	37	\$106.00
747 503 013	37	\$112.00
747 503 014	37	\$149.00
747 503 015	37	\$176.00
747 503 016	37	\$186.00
747 503 017	37	\$268.00
748 410 003	9	\$5.00
748 410 005	145	\$2.00
748 410 006	38	\$3.00
748 410 007	38	\$3.00

Part Number	Page	List Price
748 410 008	38	\$5.00
748 410 009	38	\$5.00
748 410 010	38	\$5.00
748 410 011	38	\$7.00
748 410 014	145	\$11.00
748 410 023	9	\$7.00
748 410 059	9	\$2.00
748 410 062	9	\$5.00
748 410 106	9	\$2.00
748 410 119	9	\$3.00
748 410 151	9	\$3.00
748 410 231	9	\$5.00
748 410 254	9	\$22.00
748 500 012	37	\$18.00
748 500 013	37	\$21.00
748 500 014	37	\$27.00
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748 500 017	37	\$65.00
749 410 003	9	\$22.00
749 410 005	145	\$3.00
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749 410 007	38	\$6.00
749 410 008	38	\$7.00
749 410 009	38	\$15.00
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749 410 011	38	\$17.00
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749 410 023	9	\$47.00
749 410 059	9	\$3.00
749 410 062	9	\$21.00
749 410 106	9	\$3.00
749 410 119	9	\$22.00
749 410 151	9	\$14.00
749 410 231	9	\$26.00
749 410 254	9	\$52.00
749 411 005	145	\$8.00
749 411 006	145	\$13.00
749 411 054	145	\$22.00
749 411 062	145	\$19.00
749 411 120	145	\$18.00
749 411 172	145	\$20.00
749 500 012	37	\$88.00
749 500 013	37	\$92.00
749 500 014	37	\$122.00
749 500 015	37	\$140.00
749 500 016	37	\$140.00
749 500 017	37	\$200.00

General Terms and Conditions of Sale

GF Piping Systems USA Terms and Conditions (Rev. 03/2013) supersede all previous Terms and Conditions for Georg Fischer LLC, Georg Fischer Sloane LLC, and Georg Fischer Harvel LLC.

It is the responsibility of the Distributor, Dealer, or Agent to provide a current copy of these Terms and Conditions to the Consumers of Georg Fischer Piping products.

Acceptance of Terms and Conditions

Acceptance by Customer of GF Piping Systems USA, (hereinafter "Seller") offer of Products for sale is hereby expressly conditioned upon Customer's acceptance of these General Terms and Conditions of Sale and these General Terms and Conditions of Sale will be deemed accepted, as written, despite any language in Customer's purchase order and/or other documentation which is either conflicting or supplemental, unless promptly after this offer, Customer specifically advises Seller of each term and condition not so accepted and Seller accepts Customer's conflicting and/or supplemental term(s) in writing.

Order Acceptance

Seller reserves the right to accept or reject any order. Possession of a price list by Customer does not constitute an offer to sell.

Credit Approval and Minimum Order Charge

Customer credit approval is required prior to any shipment.

The minimum order is \$100 net.

List Price, Discount or Freight Charges

List prices, discount, and freight terms are subject to change without notice. All prices are F.O.B. Seller's factory or authorized warehouse at Seller's discretion.

Payment Terms

2% 15 days, net 30, from date the invoice is issued unless otherwise stated in a specific quotation. No unauthorized deductions allowed, such as deductions for pending Return Material Transactions that are subject to review. Seller reserves the right to apply a finance charge to the balance of any past-due invoice (over 30 days from date of invoice) at a rate of 1.5% per month, 18% per annum. Payment terms on fusion machine rentals net 30; see rental agreement for more details.

Taxes

Seller charges Customer for all sales, excise and other taxes and governmental charges Seller is required to collect from Customer. Customers claiming exemption must furnish documentation required by law which is satisfactory to Seller to permit Seller to refrain from collecting such charges.

WARRANTY AND LIMITATIONS

Seller's Products are carefully inspected for manufacturing defects; however, it is not always possible to detect hidden defects.

Seller warrants that its products shall conform to the description of such products as provided to Customer by Seller through Seller's catalog, analytical data or other literature. **THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR COURSE OF DEALING OR USAGE OF TRADE - WHICH ARE HEREBY DISCLAIMED.** Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Customer has misused the products in any manner, has failed to use the products in accordance with industry standards and practices, or has failed to use the products in accordance with instructions, if any, furnished by Seller. **Seller does not warrant any Products obtained through an unauthorized Distributor, Dealer, or Agent.**

LIMITATIONS OF REMEDY

Seller's sole and exclusive liability and Customer's exclusive remedy with respect to products proved to Seller's satisfaction to be defective or nonconforming shall be repair or replacement of such products without charge or refund of the purchase price, in Seller's sole discretion, upon the return of such products in accordance with Seller's instructions. **SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND RESULTING FROM ANY USE OR FAILURE OF THE PRODUCTS, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE INCLUDING, WITHOUT LIMITATION, LIABILITY FOR LOSS OF USE, LOSS OF WORK IN PROGRESS, DOWN TIME, LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS, LOSS OF PRODUCTS OF CUSTOMER OR OTHER USE OR ANY LIABILITY OF CUSTOMER TO A THIRD PARTY ON ACCOUNT OF SUCH LOSS, OR FOR ANY LABOR OR ANY OTHER EXPENSE, DAMAGE OR LOSS OCCASIONED BY SUCH PRODUCT INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE.** Any and all claims of Customer against Seller must be brought within one (1) year of Seller's tender of delivery, regardless of their nature.

Order Changes or Cancellations

Cancellation or modifications of orders may be possible only with prior written consent from Seller. Since all orders are individually entered for processing immediately upon receipt, Seller reserves the right to charge back to the Customer costs incurred from either order cancellation or order modification. Seller also reserves the right to consider all order additions as new orders and subject to all terms and conditions.

Seller will not cancel orders for custom or non-cancelable products if Seller has already produced the product or incurred expenses toward producing the product at the time the Customer seeks to cancel.

Delivery

Seller disclaims liability for consequential damages from late deliveries unless seller assumes liability for such damages in writing when the order is placed. Further, Seller disclaims liability where delivery delays caused by strike, differences with workmen, or causes beyond Seller's control, including but not limited to fires, floods, accidents, government actions, shortages of labor, raw materials, production facilities, or transportation. Where delivery delays are caused by labor problems, Seller is not obligated to seek or obtain any settlement which, in Seller's judgment, is not in Seller's best interest.

Standard Packaging

Seller will accept orders from Customer exclusively in multiples of the standard packaging quantity or boxed quantity. Seller reserves the right to reject any order that is not a standard packaging or boxed quantity of a Product.

Always check for the most current General Terms and Conditions and Warranty Statement at www.gfpiping.com under "Price Lists."

Freight

Continental US – Full freight will be paid on the following orders:

1. Pipe \$7,500 net or greater in one of the following categories:

a. PPro-Seal	f. PVC and CPVC, including shapes and rods	j. LXT
b. Contain-It	g. PVC and CPVC, metric	k. Blazemaster
c. Fuseal (1½"–6")	h. Duct	l. PE 100
d. SYGEF	i. CTS	m. COOL-FIT ABS
e. PROGEF		n. COOL-FIT ABS Plus Pre-insulated

Combination of products from one shipping point to meet freight allowance is at the sole discretion of the seller.

2. Fittings, Valves, & Actuation \$1,500 net or greater

Freight allowed orders will be sent by a designated carrier of Seller's choice. Additional charges will be invoiced to Customer for special handling and air freight when requested. Standard Pipe lengths require long truck beds for shipping and may be shipped separately from valves and/or fittings purchased on the same order. Valves and/or fittings will be shipped using practical shipping methods.

Freight will not be paid on the following orders:

1. Signet Product
2. Custom Products
3. Heat Exchangers
4. PVC and CPVC Fabricated Fittings 14" and larger
5. Fuseal Squared, Tanks and Accessories, and Special Fabrications
6. Fuseal Large Diameter: 8", 10", 12" Pipe and Fittings
7. COOL-FIT ABS Lite Pipe
8. Double-See
9. International Orders
10. Fusion Machines and Accessories

Unless otherwise specified, shipments are surface, prepaid and added to invoice.

Mode of Shipment and Packaging

Seller reserves the right to ship orders in the most economical manner, as long as the product is shipped on or before the promised ship date. If product ships after the promised ship date, Seller may automatically adjust the shipping method to help improve delivery of the delayed shipment, at no additional cost.

If Seller pays freight, Seller may hold shipment until all items become available. Customer bears extra cost of non-standard packaging or handling requested by Customer.

Transfer of Ownership

All products are FOB Seller's facility and title of merchandise transfers when product is loaded onto carrier. Claims for damaged merchandise should be made to carrier by Customer.

Assignment. Customer may not assign its rights under or interest in any purchase order without the prior written consent of Seller. These terms and conditions of sale shall be binding upon and inure to the benefit of Customer and Seller, their successors and permitted assigns.

Technical Documentation and Intellectual Property. Unless specified otherwise, technical documents such as drawings, descriptions, illustrations and the like, constitute only an approximate guide. Seller reserves the right to make any changes considered necessary. Seller expressly reserves any and all intellectual property rights therein.

Non-Conforming Shipments

Customer must notify Seller in writing within 7 days after receipt of shipments not conforming with Customer's order, stating specifically Customer's claim of non-conformity, or Customer is deemed to accept the shipment as is. If Seller is satisfied the shipment is non-conforming, Seller will (i) credit Customer for the price of defective goods or goods shipped but not ordered (including allocated outbound and return freight) upon return of goods; (ii) promptly ship omitted items waiving Seller's new order charges. Customer is required to make timely payment to Seller of any amount which is undisputed or not subject to such claims.

Return of Goods for Credit

Seller accepts returns of certain Engineered Piping Products, Valve and Actuation Products, Signet Instrumentation Products, Waste and Containment Products, and Vinyl Piping Products for a standard restock charge of 25%. Pipe is not returnable. Products denoted with a caret (^) symbol in front of the part number in the current Master Distributor Price List have a 40% restock and products denoted with an asterisk (*) symbol are non-cancelable/non-returnable. Only products purchased within the past twelve (12) months, in original "like new" packaging (full carton quantities), of current design, and listed in the current Master Distributor Price List shall be considered for returns. All products qualifying for return are subject to review for marketability (quantities in question in relationship to historical stock movement) before issuance of a Return Material Authorization (RMA) number. Returns due to Seller's product warranty or order entry/shipping error will not be charged a restock fee.

Product for credit consideration should be returned to Seller's originating location. All returns are subject to inspection upon receipt. No credit will be issued until the returned material has been inspected, accepted, and processed. Customers will be contacted if quantity differences and/or non-acceptable material are found during inspection. Any credit issued will reflect only quantities actually received and accepted by Seller.

Disposition (return to Customer or scrap) of returned product not accepted back by Seller must be provided by Customer within 10 business days, otherwise it will be subject to disposal. All material returns must be accompanied by a valid Return Material Authorization (RMA) number. RMA numbers may be obtained from the Customer Service Department. When requesting a RMA, the original purchase order number and date of purchase must be provided.

All material returns must be received within thirty (30) days of the RMA issuance.

All material returns must be shipped freight prepaid. No collect shipments will be accepted by Seller. Restock charges and prepaid freight do not apply to warranty defective merchandise or returns due to Seller order entry or shipping errors.

Return of Goods for Warranty Evaluation

When requesting a RMA for material evaluation, Customer must first complete and submit a Material Safety Disclosure sheet and Request For Evaluation form obtained from Customer Service. Material arriving to Seller without a valid RMA number will be returned to the customer/distributor, freight collect. RMA numbers must be clearly referenced on all shipping documents and shipping containers.

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