

Valves & Actuation Price List

effective January 1, 2018





**24 Hour
Shipping**

**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 over 250 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 shown on pages 1-3 of this price book. 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

Manual Valves

	Page
Type 546 True Union Ball Valve	3
Tee Valve	7
Accessories Type 546 Ball Valve	8
Type 375 True Union Ball Valve	9
Type 523 Metering Ball Valve	10
Type 324 Laboratory Ball Cock Valve	10
Type 355 COLORO Ball Valve	10
Type 543 3-Way Ball Valve Vertical and Horizontal	11
Type 567 Wafer Style Butterfly Valve	14
Type 563 Aqua Wafer Style Butterfly Valve	16
Type 039 Wafer Style Butterfly Valve	16
Type 578 Lug Style Butterfly Valve	16
Type 365 HP Lug Style Butterfly Valve	18
Accessories Butterfly Valve	18
Diaphragm Valve	20
Type 561/562 Cone Check Valve	25
Type 591/595 Ventilating and Bleed Valve	28
Accessories Cone Check Valve	30
Type 369 Wafer Check Valve	30
Type 522 Needle Valve	31
Angle Seat Valve	31
Accessories Type 306 Line Strainer	32
Valve Spare Parts	33
Electrically Actuated Valves	
Page	
Type 180-182 Electrically Actuated Ball Valve	43
Type 127 Electrically Actuated Ball Valve	45
Type 104 Electrically Actuated Ball Valve	46
Accessories Actuated Ball Valve	47
Spare Parts Actuated Ball Valve	49
Type 170 Electrically Actuated 3-Way Vertical Ball Valve	50
Type 128 Electrically Actuated 3-Way Vertical Ball Valve	50
Type 167-169 Electrically Actuated 3-Way Horizontal Ball Valve	51
Type 125 Electrically Actuated 3-Way Horizontal Ball Valve	53
Accessories Electrically Actuated 3-Way Ball Valve	54
Spare Parts Electrically Actuated 3-Way Ball Valve	55

Electrically Actuated Valves

	Page
Type 145 Electrically Actuated Wafer Butterfly Valve	56
Type 147 Electrically Actuated Lug Butterfly Valve	60
Type 563 Electrically Actuated Aqua Wafer Butterfly Valve	64
Accessories Electrically Actuated Butterfly Valve	65
Spare Parts Electrically Actuated Butterfly Valve	67

Pneumatically Actuated Valves

	Page
Type 231-233 Pneumatically Actuated Ball Valve	68
Accessories Pneumatically Actuated Ball Valve	75
Spare Parts Pneumatically Actuated Ball Valve	77
Type 285-288 Pneumatically Actuated 3-Way Ball Valve	78
Accessories Pneumatically Actuated 3-Way Ball Valve	82
Spare Parts Pneumatically Actuated 3-Way Ball Valve	84
Type 240 Pneumatically Actuated Wafer Butterfly Valve	85
Type 244 Pneumatically Actuated Lug Butterfly Valve	87
Type 563 Pneumatically Actuated Wafer Butterfly Valve	89
Accessories Pneumatically Actuated Butterfly Valve	90
Spare Parts Pneumatically Actuated Butterfly Valve	93
DIASTAR Valve	94
Accessories DIASTAR Valve	107
Spare Parts DIASTAR Valve	109

Pressure Regulating Valves

	Page
Type 582 Pressure Reducing Valve	110
Type 586 Pressure Retaining Valve	112
V-Series Pressure Regulating Valve	113
Accessories PRV's	114
Spare Parts PRV's	114

Rotameters

	Page
Rotameters	115
Rotameter Accessories	119
Rotameter Scales	120
Rotameter Spare Parts	121

24 Hour Valves



Type 182 Electrically Actuated Ball Valve

C

Size [inch]	Socket (¾" - 2" Socket/Threaded NPT)							
	100-230 V AC							
	PVC				CPVC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	199 182 003	1,028.00	199 182 013	1,037.00	199 182 403	1,066.00	199 182 413	1,072.00
1	199 182 005	1,059.00	199 182 015	1,072.00	199 182 405	1,104.00	199 182 415	1,134.00
1 ½	199 182 007	1,106.00	199 182 017	1,128.00	199 182 407	1,206.00	199 182 417	1,249.00
2	199 182 008	1,141.00	199 182 018	1,176.00	199 182 408	1,261.00	199 182 418	1,314.00

Type 127 Electrically Actuated Ball Valve

C

Size [inch]	Socket/Threaded NPT							
	100-230 V AC							
	PVC				CPVC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	199 127 203	509.00	199 127 213	516.00	199 127 303	527.00	199 127 313	534.00
1	199 127 205	523.00	199 127 215	534.00	199 127 305	553.00	199 127 315	563.00
1 ½	199 127 207	546.00	199 127 217	567.00	199 127 307	592.00	199 127 317	613.00
2	199 127 208	573.00	199 127 218	596.00	199 127 308	619.00	199 127 318	654.00



Type 233 PVC Pneumatically Actuated Ball Valve

C

Size [inch]	Without Manual Override							
	Socket/Threaded NPT							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	199 233 063	405.00	199 233 073	413.00	199 233 103	377.00	199 233 113	383.00
1	199 233 065	420.00	199 233 075	435.00	199 233 105	395.00	199 233 115	407.00
1 ½	199 233 067	501.00	199 233 077	527.00	199 233 107	456.00	199 233 117	490.00
2	199 233 068	538.00	199 233 078	565.00	199 233 108	497.00	199 233 118	524.00

Type 233 CPVC Pneumatically Actuated Ball Valve

C

Size [inch]	Without Manual Override							
	Socket/Threaded NPT (¾" - 2")							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	199 233 363	431.00	199 233 373	435.00	199 233 403	402.00	199 233 413	407.00
1	199 233 365	454.00	199 233 375	472.00	199 233 405	430.00	199 233 415	446.00
1 ½	199 233 367	558.00	199 233 377	585.00	199 233 407	519.00	199 233 417	540.00
2	199 233 368	592.00	199 233 378	639.00	199 233 408	553.00	199 233 418	594.00

DIASTAR Ten PVC Pneumatically Actuated Diaphragm Valve

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 624 612	306.00	161 624 662	363.00	161 624 632	382.00
1	161 624 614	395.00	161 624 664	415.00	161 624 634	437.00
1 ½	161 624 616	565.00	161 624 666	621.00	161 624 636	654.00
2	161 624 617	690.00	161 624 667	792.00	161 624 637	833.00



24 Hour Valves



240 Wafer



244 Lug



145 Wafer



147 Lug

Type 240 PVC PA Wafer Style Butterfly Valve

C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
90 - 3	199 240 004	773.00	199 240 024	859.00	199 240 084	599.00	199 240 104	688.00
110 - 4	199 240 005	788.00	199 240 025	885.00	199 240 085	621.00	199 240 105	717.00
160 - 6	199 240 007	1,208.00	199 240 027	1,334.00	199 240 087	845.00	199 240 107	970.00
225 - 8	199 240 008	1,508.00	199 240 028	1,578.00	199 240 048	1,508.00	199 240 108	1,094.00

Type 244 PVC PA Lug Butterfly Valve

C

Size [inch]	Fail Save to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3	199 244 004	1,218.00	199 244 024	1,299.00	199 244 084	1,044.00	199 244 104	1,128.00
4	199 244 005	1,703.00	199 244 025	1,835.00	199 244 085	1,536.00	199 244 105	1,667.00
6	199 244 007	2,361.00	199 244 027	2,571.00	199 244 087	1,997.00	199 244 107	2,207.00
8	199 244 008	3,009.00	199 244 028	3,283.00	199 244 088	2,522.00	199 244 108	2,799.00

Type 145/147 PVC EA Butterfly Valve

C

d - Size [mm]-[inch]	100-230 V AC							
	Without Manual Override							
	Type 140 Wafer Style Butterfly Valve				Type 144 Lug Style Butterfly Valve			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
90 - 3	199 145 044	1,381.00	199 145 064	1,471.00	199 147 044	1,724.00	150 147 064	1,784.00
110 - 4	199 145 045	1,398.00	199 145 065	1,494.00	199 147 045	2,052.00	150 147 065	2,172.00
160 - 6	199 145 047	1,444.00	199 145 067	1,570.00	199 147 046	2,267.00	150 147 066	2,454.00
225 - 8	199 145 048	1,975.00	199 145 068	2,044.00	199 147 048	3,046.00	150 147 068	3,261.00

Type 582 Pressure Reducing Valve



A

Size [inch]	Without Gauge							
	Socket							
	PVC				CPVC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	161 582 202	560.00	161 582 212	610.00	163 582 202	886.00	163 582 212	904.00
1	161 582 204	879.00	161 582 214	937.00	163 582 204	1,509.00	163 582 214	1,573.00
1 ½	161 582 206	1,026.00	161 582 216	1,064.00	163 582 206	1,832.00	163 582 216	1,900.00
2	161 582 207	1,292.00	161 582 217	1,324.00	163 582 207	2,752.00	163 582 217	2,822.00

Type 586 PVC Pressure Retaining Valve

A

Size [inch]	Socket			
	EPDM	USD	FKM	USD
½	161 586 202	381.00	161 586 212	420.00
1	161 586 204	523.00	161 586 214	567.00
1 ½	161 586 206	703.00	161 586 216	756.00
2	161 586 207	863.00	161 586 217	927.00



Type 546 True Union Ball Valve



Socket/Threaded NPT



ANSI Flanged



Lockable Handle

PVC

A

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 546 341	65.00	161 546 351	80.00	-	-	-	-
1/2	161 546 342	67.00	161 546 352	81.00	161 546 582	169.00	161 546 592	181.00
3/4	161 546 343	80.00	161 546 353	94.00	161 546 583	182.00	161 546 593	204.00
1	161 546 344	96.00	161 546 354	117.00	161 546 584	202.00	161 546 594	244.00
1 1/4	161 546 345	120.00	161 546 355	145.00	161 546 585	255.00	161 546 595	287.00
1 1/2	161 546 346	154.00	161 546 356	183.00	161 546 586	274.00	161 546 596	315.00
2	161 546 347	195.00	161 546 357	245.00	161 546 587	295.00	161 546 597	346.00
2 1/2	161 546 348	468.00	161 546 358	556.00	161 546 168	629.00	161 546 178	715.00
3	161 546 349	560.00	161 546 359	677.00	161 546 169	740.00	161 546 179	857.00
4	161 546 350	739.00	161 546 360	900.00	161 546 170	969.00	161 546 180	1,134.00

Size [inch]	Threaded NPT				Lockable Handle			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	-	-	-	-	161 546 361	93.00	161 546 371	107.00
1/2	-	-	-	-	161 546 362	96.00	161 546 372	113.00
3/4	-	-	-	-	161 546 363	113.00	161 546 373	123.00
1	3/8" - 2" Threaded NPT in above table				161 546 364	128.00	161 546 374	151.00
1 1/4	-	-	-	-	161 546 365	156.00	161 546 375	182.00
1 1/2	-	-	-	-	161 546 366	195.00	161 546 376	220.00
2	-	-	-	-	161 546 367	238.00	161 546 377	285.00
2 1/2	161 546 648	631.00	161 546 658	743.00	161 546 368	572.00	161 546 378	677.00
3	161 546 649	776.00	161 546 659	909.00	161 546 369	689.00	161 546 379	819.00
4	161 546 650	923.00	161 546 660	1,072.00	161 546 370	939.00	161 546 380	965.00

Vented Ball for Sodium Hypochlorite Use

A

Size [inch]	PVC			
	EPDM	USD	FKM	USD
3/8	151 546 341	99.00	151 546 351	116.00
1/2	151 546 342	101.00	151 546 352	117.00
3/4	151 546 343	116.00	151 546 353	128.00
1	151 546 344	130.00	151 546 354	151.00
1 1/4	151 546 345	155.00	151 546 355	180.00
1 1/2	151 546 346	189.00	151 546 356	218.00
2	151 546 347	230.00	151 546 357	282.00
2 1/2	151 546 348	502.00	151 546 358	592.00
3	151 546 349	594.00	151 546 359	714.00
4	151 546 350	774.00	151 546 360	938.00



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



ANSI Flanged

CPVC

A

Size [inch]	Socket (3/8" - 2" Socket/Threaded NPT)				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	163 546 341	108.00	163 546 351	119.00	-	-	-	-
1/2	163 546 342	114.00	163 546 352	121.00	163 546 582 ^	170.00	163 546 592 ^	245.00
3/4	163 546 343	128.00	163 546 353	149.00	163 546 583 ^	188.00	163 546 593 ^	261.00
1	163 546 344	156.00	163 546 354	186.00	163 546 584 ^	270.00	163 546 594 ^	321.00
1 1/4	163 546 345	199.00	163 546 355	233.00	163 546 585 ^	285.00	163 546 595 ^	382.00
1 1/2	163 546 346	238.00	163 546 356	279.00	163 546 586 ^	331.00	163 546 596 ^	422.00
2	163 546 347	294.00	163 546 357	372.00	163 546 587 ^	498.00	163 546 597 ^	565.00
2 1/2	163 546 348	765.00	163 546 358	868.00	163 546 588 ^	967.00	163 546 598 ^	1,083.00
3	163 546 349	935.00	163 546 359	1,083.00	163 546 589 ^	1,180.00	163 546 599 ^	1,339.00
4	163 546 350	1,124.00	163 546 360	1,303.00	163 546 590 ^	1,382.00	163 546 600 ^	1,677.00

Size [inch]	Lockable Handle			
	EPDM	USD	FKM	USD
3/8	163 546 361 ^	148.00	163 546 371 ^	156.00
1/2	163 546 362 ^	149.00	163 546 372 ^	161.00
3/4	163 546 363 ^	167.00	163 546 373 ^	184.00
1	163 546 364 ^	199.00	163 546 374 ^	227.00
1 1/4	163 546 365 ^	255.00	163 546 375 ^	285.00
1 1/2	163 546 366 ^	294.00	163 546 376 ^	325.00
2	163 546 367 ^	356.00	163 546 377 ^	420.00
2 1/2	163 546 368 ^	923.00	163 546 378 ^	1,045.00
3	163 546 369 ^	1,121.00	163 546 379 ^	1,274.00
4	163 546 370 ^	1,319.00	163 546 380 ^	1,506.00



Vented Ball for Sodium Hypochlorite Use

A

Size [inch]	CPVC			
	EPDM	USD	FKM	USD
3/8	153 546 341 ^	145.00	153 546 351 ^	154.00
1/2	153 546 342 ^	148.00	153 546 352 ^	156.00
3/4	153 546 343 ^	166.00	153 546 353 ^	184.00
1	153 546 344 ^	194.00	153 546 354 ^	220.00
1 1/4	153 546 345 ^	234.00	153 546 355 ^	269.00
1 1/2	153 546 346 ^	273.00	153 546 356 ^	316.00
2	153 546 347 ^	329.00	153 546 357 ^	406.00
2 1/2	153 546 348 ^	787.00	153 546 358 ^	904.00
3	153 546 349 ^	970.00	153 546 359 ^	1,116.00
4	153 546 350 ^	1,160.00	153 546 360 ^	1,338.00



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



ANSI Flanged

PROGEF® Standard PP

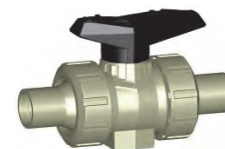
A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 546 401	72.00	167 546 411	91.00	-	-	-	-
20	167 546 442	83.00	167 546 452	98.00	167 546 442	83.00	167 546 452	98.00
25	167 546 443	97.00	167 546 453	115.00	167 546 443	97.00	167 546 453	115.00
32	167 546 444	120.00	167 546 454	146.00	167 546 444	120.00	167 546 454	146.00
40	167 546 405	139.00	167 546 415	170.00	167 546 445	148.00	167 546 455	177.00
50	167 546 406	185.00	167 546 416	223.00	167 546 446	191.00	167 546 456	235.00
63	167 546 407	223.00	167 546 417	287.00	167 546 447	234.00	167 546 457	300.00
75	167 546 408	540.00	167 546 418	698.00	167 546 448	555.00	167 546 458	673.00
90	167 546 409	673.00	167 546 419	874.00	167 546 449	689.00	167 546 459	841.00
110	167 546 410	811.00	167 546 420	1,046.00	167 546 450	822.00	167 546 460	1,027.00
Size [inch]	Threaded NPT				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	167 546 321	100.00	167 546 331	117.00	-	-	-	-
1/2	167 546 322	105.00	167 546 332	122.00	167 546 582 ^	158.00	167 546 592 ^	177.00
3/4	167 546 323	122.00	167 546 333	138.00	167 546 583 ^	171.00	167 546 593 ^	200.00
1	167 546 324	147.00	167 546 334	173.00	167 546 584 ^	211.00	167 546 594 ^	242.00
1 1/4	167 546 325	188.00	167 546 335	215.00	167 546 585 ^	288.00	167 546 595 ^	305.00
1 1/2	167 546 326	235.00	167 546 336	278.00	167 546 586 ^	321.00	167 546 596 ^	360.00
2	167 546 327	285.00	167 546 337	345.00	167 546 587 ^	402.00	167 546 597 ^	434.00
2 1/2	-	-	-	-	167 546 588 ^	792.00	167 546 598 ^	951.00
3	-	-	-	-	167 546 589 ^	1,000.00	167 546 599 ^	1,189.00
4	-	-	-	-	167 546 590 ^	1,205.00	167 546 600 ^	1,426.00

PROGEF® Natural PP

A

d [mm]	PP Valve with PPn IR/Butt Fusion Ends			
	EPDM	USD	FKM	USD
20	157 546 442 ^	152.00	157 546 452 ^	164.00
25	157 546 443 ^	177.00	157 546 453 ^	181.00
32	157 546 444 ^	189.00	157 546 454 ^	209.00
40	157 546 445 ^	208.00	157 546 455 ^	250.00
50	157 546 446 ^	250.00	157 546 456 ^	314.00
63	157 546 447 ^	305.00	157 546 457 ^	375.00

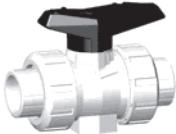
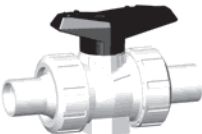
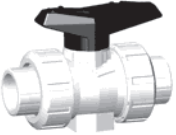
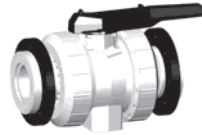


PROGEF® Standard PP valve body with PROGEF® Natural PP (PPn) valve ends

Type 546 True Union Ball Valve

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion			
	FKM	USD	FKM	USD		
16	175 546 411	232.00	-	-	 Socket Fusion	 IR/Butt Fusion
20	175 546 412	248.00	175 546 272	294.00		
25	175 546 413	305.00	175 546 273	353.00		
32	175 546 414	401.00	175 546 274	466.00		
40	175 546 415	512.00	175 546 275	626.00		
50	175 546 416	752.00	175 546 276	849.00		
63	175 546 417	1,040.00	175 546 277	1,185.00		
75	175 546 418	2,862.00	175 546 278	2,862.00		
90	175 546 419	3,562.00	175 546 279	3,562.00		
110	175 546 420	4,276.00	175 546 280	4,276.00		
Size [inch]	Threaded NPT		ANSI Flanged			
	FKM	USD	FKM	USD		
3/8	175 546 331	288.00	-	-	 Threaded NPT	 ANSI Flanged
1/2	175 546 332	305.00	175 546 592	^ 356.00		
3/4	175 546 333	360.00	175 546 593	^ 467.00		
1	175 546 334	466.00	175 546 594	^ 542.00		
1 1/4	175 546 335	626.00	175 546 595	^ 679.00		
1 1/2	175 546 336	819.00	175 546 596	^ 940.00		
2	175 546 337	1,136.00	175 546 597	^ 1,280.00		
2 1/2	-	-	175 546 818	^ 3,217.00		
3	-	-	175 546 819	^ 3,987.00		
4	-	-	175 546 820	^ 4,770.00		

Type 546 Control Ball



A

Size [inch]	Control Ball Only - Please Add Valve to Below Price							
	PVC	USD	CPVC	USD	PP	USD	PVDF	USD
3/8	161 491 032	198.00	163 482 231	202.00	167 483 419	202.00	175 483 379	212.00
1/2	161 491 032	198.00	163 482 231	202.00	167 483 419	202.00	175 483 379	212.00
3/4	161 491 033	203.00	163 482 232	204.00	167 483 420	209.00	175 483 380	238.00
1	161 491 034	209.00	163 482 233	211.00	167 483 421	215.00	175 483 381	283.00
1 1/4	161 491 035	233.00	163 482 234	256.00	167 483 422	240.00	175 483 382	314.00
1 1/2	161 491 036	256.00	163 482 235	259.00	167 483 423	264.00	175 483 383	349.00
2	161 491 037	267.00	163 482 236	293.00	167 483 424	286.00	175 483 384	408.00

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 control valve adder in above table to the price of the base valve.

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

Tee Valve

PVC and CPVC

A

Size [inch]	Socket			
	PVC/EPDM	USD	CPVC/EPDM	USD
¾ x ¾	150 319 122 ^	167.00	-	-
1 x ½	150 319 100 ^	191.00	153 319 100 ^	295.00
1 x ¾	150 319 132 ^	200.00	-	-
1 ¼ x ½	150 319 101 ^	195.00	153 319 101 ^	317.00
1 ¼ x 1	150 319 102 ^	210.00	153 319 102 ^	366.00
1 ½ x ½	150 319 103 ^	195.00	153 319 103 ^	331.00
1 ½ x ¾	150 319 119 ^	202.00	-	-
1 ½ x 1	150 319 104 ^	210.00	153 319 104 ^	379.00
1 ½ x 1 ½	150 319 131 ^	223.00	-	-
2 x ½	150 319 105 ^	248.00	153 319 105 ^	407.00
2 x ¾	150 319 106 ^	257.00	153 319 106 ^	377.00
2 x 1	150 319 107 ^	265.00	153 319 107 ^	461.00
2 x 1 ½	150 319 108 ^	329.00	153 319 108 ^	543.00
3 x ½	150 319 109 ^	255.00	153 319 109 ^	511.00
3 x ¾	150 319 120 ^	263.00	-	-
3 x 1	150 319 110 ^	277.00	153 319 110 ^	561.00
3 x 1 ½	150 319 111 ^	315.00	153 319 111 ^	639.00
3 x 2	150 319 112 ^	344.00	153 319 112 ^	700.00
4 x ¾	150 319 121 ^	303.00	-	-
4 x 1	150 319 113 ^	315.00	153 319 113 ^	688.00
4 x 1 ½	150 319 114 ^	357.00	153 319 114 ^	769.00
4 x 2	150 319 115 ^	390.00	153 319 115 ^	915.00
6 x 1	150 319 123 ^	461.00	-	-
6 x 2	150 319 116 ^	461.00	153 319 116 ^	1,162.00
6 x 2 ½	150 319 125 ^	850.00	153 319 124 ^	1,259.00
6 x 3	150 319 126 ^	1,085.00	153 319 128 ^	1,571.00
6 x 4	150 319 127 ^	1,391.00	153 319 126 ^	1,881.00
8 x 2	150 319 117 ^	680.00	153 319 117 ^	1,162.00
8 x 2 ½	150 319 128 ^	1,003.00	153 319 125 ^	1,259.00
8 x 3	150 319 129 ^	1,163.00	153 319 123 ^	1,571.00
8 x 4	150 319 130 ^	1,859.00	153 319 127 ^	1,881.00



FKM available - 10% list adder

PROGEF® Standard PP

A

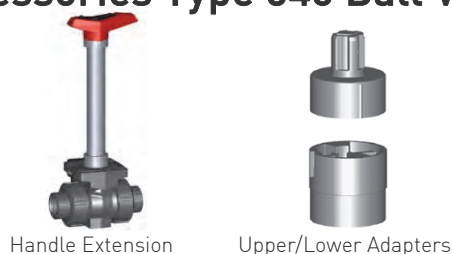
d [mm]	IR/Butt Fusion			
	EPDM	USD	FKM	USD
63 x 25	157 319 106 ^	482.00	157 319 206 ^	497.00
63 x 32	157 319 107 ^	482.00	157 319 207 ^	497.00
90 x 25	157 319 120 ^	534.00	157 319 220 ^	549.00
90 x 32	157 319 110 ^	534.00	157 319 210 ^	549.00
110 x 25	157 319 121 ^	563.00	157 319 221 ^	581.00
110 x 32	157 319 113 ^	563.00	157 319 213 ^	581.00
160 x 32	157 319 123 ^	749.00	157 319 223 ^	779.00
160 x 63	157 319 124 ^	838.00	157 319 224 ^	868.00



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

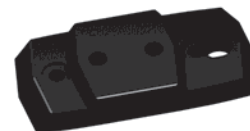
Other sizes available upon request

Accessories Type 546 Ball Valve



Handle Extension

Upper/Lower Adapters



PVC Handle Extension

C

d - d [mm]	Size [Inch]	Part No.	USD
16 - 20	3/8 - 1/2	161 486 443	21.00
25 - 32	3/4 - 1	161 486 444	21.00
40 - 50	1 1/4 - 1 1/2	161 486 445	24.00
63	2	161 486 446	24.00

Mounting Plate

C

d - d [mm]	Size [Inch]	Part No.	USD
16 - 32	3/8 - 1	167 484 110	4.00
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) Switch Kits

C

d - d [mm]	Size [Inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	64.00	167 482 635	64.00
25 - 32	3/4 - 1	167 482 627	67.00	167 482 636	67.00
40 - 50	1 1/4 - 1 1/2	167 482 628	82.00	167 482 637	82.00
63	2	167 482 629	87.00	167 482 638	87.00
75 - 90	2 1/2 - 3	167 482 630	118.00	167 482 639	118.00
110	4	167 482 631	136.00	167 482 640	136.00



d - d [mm]	Size [Inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	220.00	167 482 653	220.00
25 - 32	3/4 - 1	167 482 663	227.00	167 482 654	227.00
40 - 50	1 1/4 - 1 1/2	167 482 664	242.00	167 482 655	242.00
63	2	167 482 665	245.00	167 482 656	245.00
75 - 90	2 1/2 - 3	167 482 666	282.00	167 482 657	282.00
110	4	167 482 667	298.00	167 482 658	298.00



All MFM's require the lockable handle when used with a manual ball valve.

Alternative Seal Set

C

d - d [mm]	Size [Inch]	Teflon Encaps. FKM	USD	Chemraz 505	USD	Chemraz 570	USD
16-20	3/8 - 1/2	150 486 400 *	186.00	150 486 410 *	363.00	150 486 420 *	427.00
25	3/4	150 486 401 *	229.00	150 486 411 *	435.00	150 486 421 *	510.00
32	1	150 486 402 *	234.00	150 486 412 *	558.00	150 486 422 *	652.00
40	1 1/4	150 486 403 *	270.00	150 486 413 *	823.00	150 486 423 *	957.00
50	1 1/2	150 486 404 *	296.00	150 486 414 *	1,409.00	150 486 424 *	1,638.00
63	2	150 486 405 *	324.00	150 486 415 *	1,775.00	150 486 425 *	2,066.00
75	2 1/2	150 486 406 *	595.00	150 486 416 *	2,433.00	150 486 426 *	2,827.00
90	3	150 486 407 *	632.00	150 486 417 *	3,416.00	150 486 427 *	3,988.00
110	4	150 486 408 *	837.00	150 486 418 *	4,443.00	150 486 428 *	4,833.00



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

Teflon encaps. FKM seal kit stem seals are Chemraz 505.

Some Chemraz seal kits may include Teflon encaps. FKM backing orings

Type 375 True Union Ball Valve



PVC

A

Size [inch]	Socket (½" - 2" Socket/Threaded NPT)				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	161 375 002	50.00	161 375 017	58.00	161 375 062 ^	155.00	161 375 077 ^	165.00
¾	161 375 003	56.00	161 375 018	66.00	161 375 063 ^	154.00	161 375 078 ^	179.00
1	161 375 004	66.00	161 375 019	84.00	161 375 064 ^	168.00	161 375 079 ^	204.00
1 ¼	161 375 005	86.00	161 375 020	107.00	161 375 065 ^	179.00	161 375 080 ^	227.00
1 ½	161 375 006	100.00	161 375 021	136.00	161 375 066 ^	202.00	161 375 081 ^	249.00
2	161 375 007	145.00	161 375 022	187.00	161 375 067 ^	248.00	161 375 082 ^	313.00
2 ½	161 375 008	305.00	161 375 023	389.00	161 375 068 ^	393.00	161 375 083 ^	491.00
3	161 375 009	389.00	161 375 024	484.00	161 375 069 ^	504.00	161 375 084 ^	592.00
4	161 375 010	589.00	161 375 025	690.00	161 375 070 ^	756.00	161 375 085 ^	911.00

Size [inch]	Vented			
	EPDM	USD	FKM	USD
½	151 375 002 ^	86.00	151 375 017 ^	96.00
¾	151 375 003 ^	94.00	151 375 018 ^	104.00
1	151 375 004 ^	104.00	151 375 019 ^	122.00
1 ¼	151 375 005 ^	122.00	151 375 020 ^	147.00
1 ½	151 375 006 ^	139.00	151 375 021 ^	176.00
2	151 375 007 ^	183.00	151 375 022 ^	229.00
2 ½	151 375 008 ^	351.00	151 375 023 ^	436.00
3	151 375 009 ^	436.00	151 375 024 ^	534.00
4	151 375 010 ^	640.00	151 375 025 ^	747.00

CPVC

A



Size [inch]	Socket/Threaded NPT				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	163 375 002	55.00	163 375 017	80.00	163 375 062 ^	172.00	163 375 077 ^	197.00
¾	163 375 003	81.00	163 375 018	99.00	163 375 063 ^	198.00	163 375 078 ^	218.00
1	163 375 004	96.00	163 375 019	121.00	163 375 064 ^	230.00	163 375 079 ^	248.00
1 ¼	163 375 005	122.00	163 375 020	183.00	163 375 065 ^	241.00	163 375 080 ^	296.00
1 ½	163 375 006	160.00	163 375 021	204.00	163 375 066 ^	298.00	163 375 081 ^	352.00
2	163 375 007	241.00	163 375 022	297.00	163 375 067 ^	404.00	163 375 082 ^	472.00

Size [inch]	Vented			
	EPDM	USD	FKM	USD
½	153 375 002 ^	90.00	153 375 017 ^	115.00
¾	153 375 003 ^	116.00	153 375 018 ^	135.00
1	153 375 004 ^	129.00	153 375 019 ^	156.00
1 ¼	153 375 005 ^	158.00	153 375 020 ^	218.00
1 ½	153 375 006 ^	194.00	153 375 021 ^	234.00
2	153 375 007 ^	272.00	153 375 022 ^	328.00

Type 523 Metering Ball Valve



A

PVC and CPVC

Size [inch]	Socket/Threaded NPT							
	PVC				CPVC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 523 521	105.00	161 523 531	117.00	163 523 521	147.00	163 523 531	165.00
1/2	161 523 522	111.00	161 523 532	119.00	163 523 522	155.00	163 523 532	168.00



A

PROGEF® Standard PP

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 523 401	180.00	167 523 411	195.00	-	-	-	-
20	167 523 402	180.00	167 523 412	195.00	167 523 482	203.00	167 523 492	219.00



A

SYGEF® Standard PVDF

d [mm]	Socket Fusion		IR/Butt Fusion	
	FKM	USD	FKM	USD
16	175 523 411	390.00	-	-
20	175 523 412	415.00	175 523 492	567.00

Type 324 Laboratory Ball Cock Valve



A

PVC

Size [inch]	Socket		Threaded NPT	
	EPDM	USD	EPDM	USD
1/4	161 324 200	63.00	161 324 454	63.00

Type 355 COLORO Ball Valve

*Type 353 Compact COLORO Valve Discontinued Jan. 2018

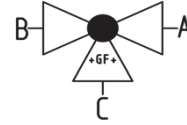
PVC

A

Size [inch]	Socket		Threaded NPT	
	EPDM	USD	EPDM	USD
1/2	161 355 382	29.00	161 355 362	29.00
3/4	161 355 383	32.00	161 355 363	32.00
1	161 355 384	45.00	161 355 364	45.00
1 1/4	161 355 385	63.00	161 355 365	63.00
1 1/2	161 355 386	77.00	161 355 366	77.00
2	161 355 387	98.00	161 355 367	99.00



Type 543 Vertical 3-Way Ball Valve



PVC

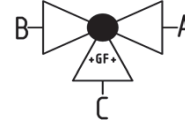
A

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 543 661	100.00	161 543 671	114.00	161 543 681	100.00	161 543 691	114.00
1/2	161 543 662	102.00	161 543 672	115.00	161 543 682	102.00	161 543 692	115.00
3/4	161 543 663	120.00	161 543 673	131.00	161 543 683	120.00	161 543 693	131.00
1	161 543 664	148.00	161 543 674	165.00	161 543 684	148.00	161 543 694	165.00
1 1/4	161 543 665	176.00	161 543 675	195.00	161 543 685	176.00	161 543 695	195.00
1 1/2	161 543 666	203.00	161 543 676	227.00	161 543 686	203.00	161 543 696	227.00
2	161 543 667	253.00	161 543 677	292.00	161 543 687	253.00	161 543 697	292.00

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

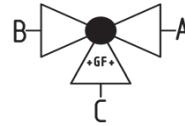
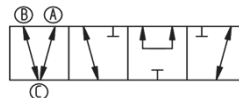
Type 543 Horizontal 3-Way Ball Valve



PVC

A

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 543 081	101.00	161 543 091	115.00	161 543 101	101.00	161 543 111	115.00
1/2	161 543 082	102.00	161 543 092	117.00	161 543 102	105.00	161 543 112	117.00
3/4	161 543 083	122.00	161 543 093	135.00	161 543 103	122.00	161 543 113	138.00
1	161 543 084	150.00	161 543 094	166.00	161 543 104	151.00	161 543 114	169.00
1 1/4	161 543 085	175.00	161 543 095	194.00	161 543 105	175.00	161 543 115	194.00
1 1/2	161 543 086	200.00	161 543 096	223.00	161 543 106	200.00	161 543 116	234.00
2	161 543 087	245.00	161 543 097	289.00	161 543 107	253.00	161 543 117	301.00



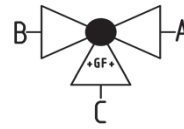
PVC

A

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 543 281	101.00	161 543 291	115.00	161 543 301	101.00	161 543 311	115.00
1/2	161 543 282	102.00	161 543 292	117.00	161 543 302	105.00	161 543 312	117.00
3/4	161 543 283	122.00	161 543 293	135.00	161 543 303	122.00	161 543 313	135.00
1	161 543 284	150.00	161 543 294	166.00	161 543 304	151.00	161 543 314	169.00
1 1/4	161 543 285	175.00	161 543 295	194.00	161 543 305	175.00	161 543 315	194.00
1 1/2	161 543 286	200.00	161 543 296	223.00	161 543 306	200.00	161 543 316	234.00
2	161 543 287	245.00	161 543 297	289.00	161 543 307	253.00	161 543 317	303.00

Type 543 Horizontal 3-Way Ball Valve

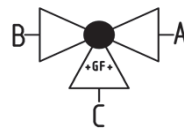
CPVC



A

Size [inch]	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	163 543 081	194.00	163 543 091	214.00	163 543 101	194.00	163 543 111	214.00
1/2	163 543 082	194.00	163 543 092	214.00	163 543 102	194.00	163 543 112	214.00
3/4	163 543 083	234.00	163 543 093	247.00	163 543 103	234.00	163 543 113	247.00
1	163 543 084	287.00	163 543 094	308.00	163 543 104	287.00	163 543 114	308.00
1 1/4	163 543 085	332.00	163 543 095	363.00	163 543 105	332.00	163 543 115	363.00
1 1/2	163 543 086	381.00	163 543 096	424.00	163 543 106	381.00	163 543 116	424.00
2	163 543 087	471.00	163 543 097	541.00	163 543 107	471.00	163 543 117	541.00

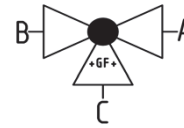
CPVC



A

Size [inch]	T-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	163 543 281	194.00	163 543 291	214.00	163 543 301	194.00	163 543 311	214.00
1/2	163 543 282	194.00	163 543 292	214.00	163 543 302	194.00	163 543 312	214.00
3/4	163 543 283	234.00	163 543 293	247.00	163 543 303	234.00	163 543 313	247.00
1	163 543 284	287.00	163 543 294	308.00	163 543 304	287.00	163 543 314	308.00
1 1/4	163 543 285	332.00	163 543 295	363.00	163 543 305	332.00	163 543 315	363.00
1 1/2	163 543 286	381.00	163 543 296	424.00	163 543 306	381.00	163 543 316	424.00
2	163 543 287	471.00	163 543 297	541.00	163 543 307	471.00	163 543 317	541.00

PROGEF® Standard PP



A

d [mm]	L-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 543 001	184.00	167 543 011	219.00	-	-	-	-
20	167 543 002	187.00	167 543 012	224.00	167 543 062	200.00	167 543 072	242.00
25	167 543 003	213.00	167 543 013	260.00	167 543 063	224.00	167 543 073	277.00
32	167 543 004	269.00	167 543 014	332.00	167 543 064	286.00	167 543 074	349.00
40	167 543 005	301.00	167 543 015	364.00	167 543 065	321.00	167 543 075	389.00
50	167 543 006	356.00	167 543 016	442.00	167 543 066	378.00	167 543 076	470.00
63	167 543 007	428.00	167 543 017	554.00	167 543 067	466.00	167 543 077	599.00

Size [inch]	Threaded NPT			
	EPDM	USD	FKM	USD
3/8	167 543 161	195.00	167 543 171	239.00
1/2	167 543 162	200.00	167 543 172	243.00
3/4	167 543 163	224.00	167 543 173	277.00
1	167 543 164	286.00	167 543 174	348.00
1 1/4	167 543 165	321.00	167 543 175	389.00
1 1/2	167 543 166	378.00	167 543 176	470.00
2	167 543 167	461.00	167 543 177	599.00



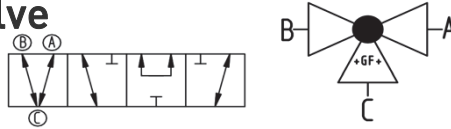
Socket Fusion/Threaded NPT



IR/Butt Fusion

Type 543 Horizontal 3-Way Ball Valve



PROGEF® Standard PP



A

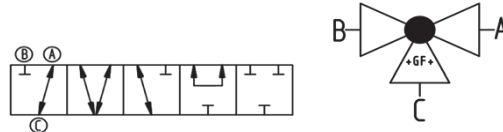
d [mm]	T-port							
	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 543 201	184.00	167 543 211	219.00	-	-	-	-
20	167 543 202	187.00	167 543 212	224.00	167 543 262	200.00	167 543 272	243.00
25	167 543 203	213.00	167 543 213	261.00	167 543 263	224.00	167 543 273	277.00
32	167 543 204	269.00	167 543 214	332.00	167 543 264	286.00	167 543 274	348.00
40	167 543 205	301.00	167 543 215	364.00	167 543 265	321.00	167 543 275	389.00
50	167 543 206	356.00	167 543 216	439.00	167 543 266	378.00	167 543 276	470.00
63	167 543 207	428.00	167 543 217	555.00	167 543 267	462.00	167 543 277	599.00

Size [inch]	Threaded NPT			
	EPDM	USD	FKM	USD
3/8	167 543 361	175.00	167 543 371	207.00
1/2	167 543 362	175.00	167 543 372	207.00
3/4	167 543 363	193.00	167 543 373	243.00
1	167 543 364	253.00	167 543 374	322.00
1 1/4	167 543 365	322.00	167 543 375	456.00
1 1/2	167 543 366	430.00	167 543 376	596.00
2	167 543 367	487.00	167 543 377	759.00


Socket Fusion/Threaded NPT
IR/Butt Fusion

SYGEF® Standard PVDF



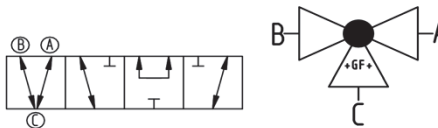
A

d - Size [mm]-[Inch]	L-port					
	Socket Fusion		IR/Butt Fusion		Threaded NPT	
	FKM	USD	FKM	USD	FKM	USD
16 - 3/8	175 543 011	441.00	-	-	175 543 071	498.00
20 - 1/2	175 543 012	466.00	175 543 052	512.00	175 543 072	512.00
25 - 3/4	175 543 013	562.00	175 543 053	626.00	175 543 073	626.00
32 - 1	175 543 014	735.00	175 543 054	819.00	175 543 074	819.00
40 - 1 1/4	175 543 015	857.00	175 543 055	996.00	175 543 075	996.00
50 - 1 1/2	175 543 016	1,121.00	175 543 056	1,313.00	175 543 076	1,313.00
63 - 2	175 543 017	1,569.00	175 543 057	1,712.00	175 543 077	1,712.00




Socket Fusion/Threaded NPT

SYGEF® Standard PVDF



A

d [mm]	T-port					
	Socket Fusion		IR/Butt Fusion		Threaded NPT	
	FKM	USD	FKM	USD	FKM	USD
16	175 543 111	441.00	-	-	175 543 171	498.00
20	175 543 112	466.00	175 543 152	512.00	175 543 172	512.00
25	175 543 113	562.00	175 543 153	626.00	175 543 173	626.00
32	175 543 114	735.00	175 543 154	819.00	175 543 174	819.00
40	175 543 115	857.00	175 543 155	996.00	175 543 175	996.00
50	175 543 116	1,121.00	175 543 156	1,313.00	175 543 176	1,313.00
63	175 543 117	1,569.00	175 543 157	1,712.00	175 543 177	1,712.00



IR/Butt Fusion

Type 567 Wafer Style Butterfly Valve



PVC

d - Size [mm]-[inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	161 567 002	232.00	161 567 022	365.00	161 567 042	526.00	161 567 062	684.00
75 - 2½	161 567 003	242.00	161 567 023	374.00	161 567 043	537.00	161 567 063	690.00
90 - 3	161 567 004	257.00	161 567 024	387.00	161 567 044	550.00	161 567 064	705.00
110 - 4	161 567 005	278.00	161 567 025	421.00	161 567 045	568.00	161 567 065	737.00
140 - 5	161 567 006	401.00	161 567 026	591.00	161 567 046	677.00	161 567 066	893.00
160 - 6	161 567 007	401.00	161 567 027	591.00	161 567 047	677.00	161 567 067	893.00
225 - 8	161 567 008	598.00	161 567 028	765.00	161 567 048	786.00	161 567 068	1,060.00
280 - 10	161 567 009	1,854.00	161 567 029	2,739.00	161 567 049	2,102.00	161 567 069	3,338.00
315 - 12	161 567 010	2,535.00	161 567 030	3,437.00	161 567 050	2,818.00	161 567 070	4,118.00

The Type 567 is compatible with ANSI 150, DIN and JIS bolt patterns



CPVC

d - Size [mm]-[inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	163 567 002	446.00	163 567 022	624.00	163 567 042	721.00	163 567 062	839.00
75 - 2½	163 567 003	493.00	163 567 023	676.00	163 567 043	771.00	163 567 063	918.00
90 - 3	163 567 004	544.00	163 567 024	794.00	163 567 044	868.00	163 567 064	1,018.00
110 - 4	163 567 005	637.00	163 567 025	919.00	163 567 045	958.00	163 567 065	1,128.00
140 - 5	163 567 006	869.00	163 567 026	1,207.00	163 567 046	1,239.00	163 567 066	1,354.00
160 - 6	163 567 007	869.00	163 567 027	1,207.00	163 567 047	1,239.00	163 567 067	1,354.00
225 - 8	163 567 008	1,124.00	163 567 028	1,563.00	163 567 048	1,508.00	163 567 068	1,659.00
280 - 10	163 567 009	3,464.00	163 567 029	3,742.00	163 567 049	3,604.00	163 567 069	4,005.00
315 - 12	163 567 010	4,578.00	163 567 030	4,548.00	163 567 050	4,718.00	163 567 070	4,942.00

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

The Type 567 is compatible with ANSI 150, DIN and JIS bolt patterns

Type 567 Wafer Style Butterfly Valve



PROGEF® Standard PP

d - Size [mm]-[inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	167 567 002	323.00	167 567 022	406.00	167 567 042	856.00	167 567 062	918.00
75 - 2 ½	167 567 003	359.00	167 567 023	439.00	167 567 043	903.00	167 567 063	955.00
90 - 3	167 567 004	405.00	167 567 024	485.00	167 567 044	945.00	167 567 064	1,032.00
110 - 4	167 567 005	491.00	167 567 025	619.00	167 567 045	1,032.00	167 567 065	1,126.00
140 - 5	167 567 006	699.00	167 567 026	905.00	167 567 046	1,115.00	167 567 066	1,387.00
160 - 6	167 567 007	699.00	167 567 027	905.00	167 567 047	1,115.00	167 567 067	1,387.00
225 - 8	167 567 008	900.00	167 567 028	1,056.00	167 567 048	1,282.00	167 567 068	1,607.00
280 - 10	167 567 009	3,098.00	167 567 029	3,612.00	167 567 049	3,399.00	167 567 069	3,926.00
315 - 12	167 567 010	3,838.00	167 567 030	4,494.00	167 567 050	4,137.00	167 567 070	4,795.00
355 - 14	-	-	-	-	167 567 051 *	7,964.00	167 567 071 *	8,834.00
400 - 16	-	-	-	-	167 567 052 *	8,834.00	167 567 072 *	9,539.00
450 - 18	-	-	-	-	167 567 053 *	12,594.00	167 567 073 *	13,909.00
500 - 20	-	-	-	-	167 567 054 *	15,889.00	167 567 074 *	18,519.00
630 - 24	-	-	-	-	167 567 055 *	20,781.00	167 567 075 *	23,526.00

d - Size [mm]-[inch]	Bare Shaft			
	EPDM	USD	FKM	USD
355 - 14	167 567 811 *	7,592.00	167 567 831 *	8,460.00
400 - 16	167 567 812 *	8,460.00	167 567 832 *	9,166.00
450 - 18	167 567 813 *	12,221.00	167 567 833 *	13,537.00
500 - 20	167 567 814 *	15,517.00	167 567 834 *	18,147.00
630 - 24	167 567 815 *	20,407.00	167 567 835 *	23,153.00

PTFE seals available 2"-12" upon request - Please call Inside Sales for pricing

The Type 567 is compatible with ANSI 150, DIN and JIS bolt patterns



SYGEF® Standard PVDF

d - Size [mm]-[inch]	Lever				Lever			
	FKM	USD	PTFE/FKM	USD	FKM	USD	PTFE/FKM	USD
63 - 2	175 567 002	1,056.00	175 567 202 *	1,224.00	175 567 022	1,450.00	175 567 222 *	1,625.00
75 - 2 ½	175 567 003	1,210.00	175 567 203 *	1,401.00	175 567 023	1,629.00	175 567 223 *	1,797.00
90 - 3	175 567 004	1,469.00	175 567 204 *	1,703.00	175 567 024	1,876.00	175 567 224 *	2,072.00
110 - 4	175 567 005	1,747.00	175 567 205 *	2,028.00	175 567 025	2,059.00	175 567 225 *	2,279.00
140 - 5	175 567 006	2,728.00	175 567 206 *	3,127.00	175 567 026	2,851.00	175 567 226 *	3,145.00
160 - 6	175 567 007	2,728.00	175 567 207 *	3,127.00	175 567 027	2,851.00	175 567 227 *	3,145.00
225 - 8	175 567 008	3,577.00	175 567 208 *	4,008.00	175 567 028	3,687.00	175 567 228 *	4,031.00
280 - 10	175 567 009	6,120.00	175 567 209 *	8,606.00	175 567 029	6,443.00	175 567 229 *	8,668.00
315 - 12	175 567 010	7,665.00	175 567 210 *	10,848.00	175 567 030	8,254.00	175 567 230 *	10,909.00

The Type 567 is compatible with ANSI 150, DIN and JIS bolt patterns

Type 563 Aqua Butterfly Valve

PVC/EPDM

A

d - Size [mm]-[inch]	Lever	USD	Gear	USD
63 - 2	161 563 002	152.00	161 563 042	447.00
75 - 2 ½	161 563 003	154.00	161 563 043	454.00
90 - 3	161 563 004	155.00	161 563 044	466.00
110 - 4	161 563 005	172.00	161 563 045	482.00
140 - 5	161 563 006	257.00	161 563 046	573.00
160 - 6	161 563 007	257.00	161 563 047	573.00
225 - 8	161 563 008	431.00	161 563 048	667.00
280 - 10	161 563 009	774.00	161 563 049	774.00
315 - 12	161 563 010	1,488.00	161 563 050	1,542.00



Lever



Gear

For water use only

The Type 563 is compatible with ANSI 150, DIN and JIS bolt patterns



Type 039 Wafer Style Butterfly Valve

Gear

A

Size [inch]	Stainless Steel				Epoxy Coated Ductile Iron			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
14	198 039 030 *	4,859.00	198 039 070 *	7,071.00	198 039 020 *	3,596.00	198039060 *	5,937.00
16	198 039 031 *	6,246.00	198 039 071 *	9,706.00	198 039 021 *	4,607.00	198039061 *	8,235.00
18	198 039 032 *	9,821.00	198 039 072 *	15,119.00	198 039 022 *	6,648.00	198039062 *	12,272.00
20	198 039 033 *	11,275.00	198 039 073 *	17,867.00	198 039 023 *	8,108.00	198039063 *	15,027.00
24	198 039 034 *	17,247.00	198 039 074 *	27,088.00	198 039 024 *	13,105.00	198039064 *	22,066.00

The Type 039 is compatible with ANSI 150 and DIN bolt patterns

Type 578 ANSI Lug Style Butterfly Valve

PVC

A

Size [inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	161 578 102	680.00	161 578 122	800.00	161 578 142	1,140.00	161 578 162	1,267.00
2 ½	161 578 103	703.00	161 578 123	826.00	161 578 143	1,180.00	161 578 163	1,312.00
3	161 578 104	703.00	161 578 124	826.00	161 578 144	1,193.00	161 578 164	1,325.00
4	161 578 105	1,193.00	161 578 125	1,372.00	161 578 145	1,645.00	161 578 165	1,828.00
5	161 578 106	1,554.00	161 578 126	1,827.00	161 578 146	1,986.00	161 578 166	2,207.00
6	161 578 107	1,554.00	161 578 127	1,827.00	161 578 147	1,998.00	161 578 167	2,219.00
8	161 578 108	2,099.00	161 578 128	2,468.00	161 578 148	2,352.00	161 578 168	2,613.00
10	161 578 109	3,570.00	161 578 129	4,200.00	161 578 149	3,797.00	161 578 169	4,467.00
12	161 578 110	4,285.00	161 578 130	5,040.00	161 578 150	4,557.00	161 578 170	5,697.00



Lever



Gear

Type 578 ANSI Lug Style Butterfly Valve



Lever

Gear

A

CPVC

Size [inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	163 578 102	971.00	163 578 122	1,214.00	163 578 142	1,211.00	163 578 162	1,349.00
2½	163 578 103	1,004.00	163 578 123	1,255.00	163 578 143	1,495.00	163 578 163	1,674.00
3	163 578 104	1,004.00	163 578 124	1,255.00	163 578 144	1,495.00	163 578 164	1,674.00
4	163 578 105	1,704.00	163 578 125	2,130.00	163 578 145	1,893.00	163 578 165	2,366.00
5	163 578 106	2,218.00	163 578 126	2,774.00	163 578 146	2,464.00	163 578 166	3,082.00
6	163 578 107	2,218.00	163 578 127	2,774.00	163 578 147	2,464.00	163 578 167	3,082.00
8	163 578 108	2,997.00	163 578 128	3,747.00	163 578 148	3,332.00	163 578 168	4,163.00
10	163 578 109	8,553.00	163 578 129	10,692.00	163 578 149	9,502.00	163 578 169	11,880.00
12	163 578 110	9,853.00	163 578 130	11,592.00	163 578 150	10,947.00	163 578 170	12,880.00

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



PROGEF® Standard PP

Size [inch]	Lever				Gear			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	167 578 102	1,013.00	167 578 122	1,081.00	167 578 142	1,266.00	167 578 162	1,352.00
2½	167 578 103	1,231.00	167 578 123	1,374.00	167 578 143	1,448.00	167 578 163	1,616.00
3	167 578 104	1,318.00	167 578 124	1,407.00	167 578 144	1,550.00	167 578 164	1,654.00
4	167 578 105	1,685.00	167 578 125	1,783.00	167 578 145	1,873.00	167 578 165	1,982.00
5	167 578 106	2,479.00	167 578 126	3,201.00	167 578 146	2,608.00	167 578 166	3,370.00
6	167 578 107	2,479.00	167 578 127	3,201.00	167 578 147	2,608.00	167 578 167	3,370.00
8	167 578 108	3,198.00	167 578 128	3,494.00	167 578 148	3,368.00	167 578 168	3,679.00
10	167 578 109	4,829.00	167 578 129	5,717.00	167 578 149	5,083.00	167 578 169	6,131.00
12	167 578 110	5,855.00	167 578 130	7,380.00	167 578 150	6,161.00	167 578 170	7,768.00

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



SYGEF® Standard PVDF

Size [inch]	Lever				Gear			
	FKM	USD	PTFE/FKM	USD	FKM	USD	PTFE/FKM	USD
2	175 578 102	1,557.00	175 578 302 *	1,868.00	175 578 122	1,638.00	175 578 322 *	1,965.00
2½	175 578 103	2,164.00	175 578 303 *	2,207.00	175 578 123	2,277.00	175 578 323 *	2,323.00
3	175 578 104	2,164.00	175 578 304 *	2,596.00	175 578 124	2,277.00	175 578 324 *	2,733.00
4	175 578 105	2,503.00	175 578 305 *	3,111.00	175 578 125	2,635.00	175 578 325 *	3,274.00
5	175 578 106	3,806.00	175 578 306 *	5,292.00	175 578 126	4,006.00	175 578 326 *	5,570.00
6	175 578 107	3,806.00	175 578 307 *	5,292.00	175 578 127	4,006.00	175 578 327 *	5,570.00
8	175 578 108	4,769.00	175 578 308 *	8,603.00	175 578 128	5,020.00	175 578 328 *	9,055.00
10	175 578 109	8,529.00	175 578 309 *	13,309.00	175 578 129	10,043.00	175 578 329 *	14,009.00
12	175 578 110	10,235.00	175 578 310 *	16,866.00	175 578 130	12,049.00	175 578 330 *	17,753.00

Type 365 HP ANSI Lug Style Butterfly Valve

PFA/PTFE

B

Size [inch]	Lever		Gear	
	Part No.	USD	Part No.	USD
2	160 365 318 *	1,862.00	-	-
3	160 365 320 *	2,174.00	160 365 500 *	2,336.00
4	160 365 321 *	2,298.00	160 365 501 *	2,468.00
6	160 365 323 *	3,291.00	160 365 503 *	3,540.00
8	-	-	160 365 504 *	5,153.00
10	-	-	160 365 505 *	7,016.00
12	-	-	160 365 506 *	8,694.00



Lever

Available up to 36" - Please contact Inside Sales for part numbers and pricing

Accessories Butterfly Valve

Integrated Position Indicator

C

d [mm]	Size [inch]	Mechanical Limit Switches					
		Au	USD	Ag Ni	USD		
63 - 90	2 - 3	161 486 858	317.00	161 486 859	317.00		
110 - 140	4 - 5	161 486 304	317.00	161 486 305	317.00		
160 - 225	6 - 8	161 486 009	317.00	161 486 010	317.00		
d [mm]	Size [inch]	Inductive Limit Switches					
		Namur	USD	PNP	USD	NPN	USD
63 - 90	2 - 3	161 486 855 ^	731.00	161 486 856 ^	710.00	161 486 857 ^	731.00
110 - 140	4 - 5	161 486 301 ^	731.00	161 486 302 ^	710.00	161 486 303 ^	731.00
160 - 225	6 - 8	161 486 006 ^	731.00	161 486 007 ^	710.00	161 486 008 ^	731.00



For Type 563/567/578 Butterfly Valves only.

Butterfly Valve Chain Operator

C

d [mm]	Size [inch]	Description	Painted Ductile Iron	USD
63 - 315	2 - 12	Chain Operator Kit	150 101 626	216.00
63 - 315	2 - 12	Wheel	150 101 609	45.00
all sizes		Chain price per foot	150 101 618	2.00
all sizes		Masterlink	150 101 616	8.00



How To Order:

1. Order desired gear operated butterfly valve.
2. Order chain operator wheel.
3. Order the chain operator kit.
4. Order the chain using the chain price per foot part number and specify the desired length.
5. Order the masterlink if needed.



Gear Operator

C

d [mm]	Size [inch]	Aluminum IP65	USD	Stainless Steel IP68	USD
63 - 225	2 - 8	161 483 471 *	305.00	150 483 491 *	735.00
280 - 315	10 - 12	161 483 472 *	483.00	150 483 492 *	1,094.00

For Type 563/567/578 Butterfly Valves only.

Intermediate Kit required to convert a lever valve to gear.

Accessories Butterfly Valve

Handle

A

d [mm]	Size [inch]	Standard	USD	with Fine Adjustment	USD
63	2	161 486 690	78.00	161 486 325	116.00
75	2 ½	161 486 690	78.00	161 486 325	116.00
90	3	161 486 690	78.00	161 486 325	116.00
110	4	161 486 691	90.00	161 486 326	123.00
140	5	161 486 691	90.00	161 486 326	123.00
160	6	161 486 694	107.00	161 486 327	123.00
225	8	161 486 695	139.00	161 486 328	248.00
280	10	161 486 697	271.00	-	-
315	12	161 486 697	271.00	-	-



Standard Handle



For Type 563/567/578 Butterfly Valves only.

Two Piece Handle Extension

C

d [mm]	Size [inch]	Description	SS316/SS316	USD
63 - 90	2 - 3	1st foot	150 567 001 *	653.00
110 - 140	4 - 5	1st foot	150 567 002 *	653.00
160	6	1st foot	150 567 003 *	653.00
225	8	1st foot	150 567 004 *	653.00
280 - 315	10 - 12	1st foot	150 567 005 *	653.00
all sizes		Price per additional foot	-	119.00



Minimum length of 6 inches



Direct Mount



Gear Op. Mount

Direct Mount 2" Square Operating Nut

C

d [mm]	Size [inch]	Anodized Aluminum	USD
63 - 90	2 - 3	150 900 454 ^	179.00
110 - 140	4 - 5	150 900 456 ^	179.00
160 - 225	6 - 8	150 900 457 ^	113.00
280 - 315	10 - 12	150 900 459 ^	113.00

Gear Op Mount 2" Square Operating Nut

C

d [mm]	Size [inch]	Anodized Aluminum	USD
63 - 315	2 - 12	150 901 454 ^	179.00

PVC Diaphragm Valve



A

Type 514 Socket

Size [inch]	Socket							
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	PTFE/FKM	USD
½	161 514 612	135.00	161 514 662	210.00	161 514 632	220.00	150 514 612 ^	232.00
¾	161 514 613	149.00	161 514 663	223.00	161 514 633	234.00	150 514 613 ^	246.00
1	161 514 614	190.00	161 514 664	324.00	161 514 634	342.00	150 514 614 ^	357.00
1 ¼	161 514 615	295.00	161 514 665	443.00	161 514 635	466.00	150 514 615 ^	490.00
1 ½	161 514 616	298.00	161 514 666	443.00	161 514 636	466.00	150 514 616 ^	490.00
2	161 514 617	343.00	161 514 667	541.00	161 514 637	570.00	150 514 617 ^	599.00

Type 517/317 ANSI Flanged

A

Size [inch]	ANSI Flanged						
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	161 517 612 ^	172.00	161 517 662 ^	286.00	161 517 632 ^	300.00	
¾	161 517 613 ^	198.00	161 517 663 ^	314.00	161 517 633 ^	329.00	
1	161 517 614 ^	242.00	161 517 664 ^	403.00	161 517 634 ^	423.00	
1 ¼	161 517 615 ^	365.00	161 517 665 ^	511.00	161 517 635 ^	538.00	
1 ½	161 517 616 ^	386.00	161 517 666 ^	516.00	161 517 636 ^	542.00	
2	161 517 617 ^	451.00	161 517 667 ^	638.00	161 517 637 ^	672.00	
2 ½	161 317 623 *	653.00	161 317 668 *	959.00	161 317 638 *	1,010.00	
3	161 317 024 *	865.00	161 317 069 *	1,283.00	161 317 039 *	1,351.00	
4	161 317 325 *	1,207.00	161 317 370 *	1,809.00	161 317 340 *	1,904.00	
6	161 317 027 *	3,097.00	161 317 072 *	4,636.00	161 317 042 *	4,881.00	



CPVC Diaphragm Valve



A

Type 514 Socket

Size [inch]	Socket							
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	PTFE/FKM	USD
½	163 514 612	242.00	163 514 662	319.00	163 514 632	336.00	153 514 612 ^	354.00
¾	163 514 613	261.00	163 514 663	352.00	163 514 633	371.00	153 514 613 ^	389.00
1	163 514 614	335.00	163 514 664	441.00	163 514 634	464.00	153 514 614 ^	487.00
1 ¼	163 514 615	433.00	163 514 665	542.00	163 514 635	571.00	153 514 615 ^	600.00
1 ½	163 514 616	472.00	163 514 666	611.00	163 514 636	643.00	153 514 616 ^	675.00
2	163 514 617	504.00	163 514 667	688.00	163 514 637	725.00	153 514 617 ^	761.00

Type 517/317 ANSI Flanged

A

Size [inch]	ANSI Flanged						
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	163 517 712 ^	283.00	163 517 762 ^	368.00	163 517 732 ^	387.00	
¾	163 517 713 ^	315.00	163 517 763 ^	398.00	163 517 733 ^	418.00	
1	163 517 714 ^	390.00	163 517 764 ^	523.00	163 517 734 ^	548.00	
1 ¼	163 517 715 ^	500.00	163 517 765 ^	667.00	163 517 735 ^	702.00	
1 ½	163 517 716 ^	506.00	163 517 766 ^	779.00	163 517 736 ^	820.00	
2	163 517 717 ^	567.00	163 517 767 ^	874.00	163 517 737 ^	918.00	
2 ½	163 317 623 *	1,040.00	163 317 668 *	1,704.00	163 317 638 *	1,793.00	
3	163 317 024 *	1,589.00	163 317 069 *	2,307.00	163 317 039 *	2,428.00	
4	163 317 325 *	2,126.00	163 317 370 *	3,053.00	163 317 340 *	3,213.00	



PROGEF® Standard PP Diaphragm Valve



514 Socket Fusion Union



514 IR/Butt Fusion Union



515 IR/Butt Fusion

Type 514 Union

A

d [mm]	Socket Fusion Union							
	NBR	USD	EPDM	USD	FKM	USD	PTFE/EPDM	USD
20	167 514 002 *	185.00	167 514 012	169.00	167 514 062	260.00	167 514 032	346.00
25	167 514 003 *	202.00	167 514 013	184.00	167 514 063	263.00	167 514 033	352.00
32	167 514 004 *	243.00	167 514 014	220.00	167 514 064	304.00	167 514 034	405.00
40	167 514 005 *	294.00	167 514 015	265.00	167 514 065	389.00	167 514 035	519.00
50	167 514 006 *	382.00	167 514 016	346.00	167 514 066	494.00	167 514 036	659.00
63	167 514 007 *	477.00	167 514 017	434.00	167 514 067	613.00	167 514 037	818.00
d [mm]	IR/Butt Fusion Union							
	NBR	USD	EPDM	USD	FKM	USD	PTFE/EPDM	USD
20	167 514 102 *	220.00	167 514 112	201.00	167 514 162	343.00	167 514 132	403.00
25	167 514 103 *	233.00	167 514 113	211.00	167 514 163	345.00	167 514 133	405.00
32	167 514 104 *	283.00	167 514 114	258.00	167 514 164	403.00	167 514 134	473.00
40	167 514 105 *	345.00	167 514 115	315.00	167 514 165	520.00	167 514 135	613.00
50	167 514 106 *	447.00	167 514 116	405.00	167 514 166	656.00	167 514 136	771.00
63	167 514 107 *	557.00	167 514 117	507.00	167 514 167	817.00	167 514 137	960.00

Type 515 Spigot

A

d [mm]	IR/Butt Fusion							
	NBR	USD	EPDM	USD	FKM	USD	PTFE/EPDM	USD
20	167 515 102 *	167.00	167 515 112	152.00	167 515 162	218.00	167 515 132	292.00
25	167 515 103 *	187.00	167 515 113	170.00	167 515 163	246.00	167 515 133	327.00
32	167 515 104 *	236.00	167 515 114	214.00	167 515 164	296.00	167 515 134	393.00
40	167 515 105 *	283.00	167 515 115	258.00	167 515 165	378.00	167 515 135	504.00
50	167 515 106 *	366.00	167 515 116	332.00	167 515 166	469.00	167 515 136	626.00
63	167 515 107 *	459.00	167 515 117	416.00	167 515 167	589.00	167 515 137	785.00

Type 517/317 ANSI Flanged

A

Size [inch]	ANSI Flanged			
	EPDM	USD	PTFE/EPDM	USD
½	167 517 712 ^	208.00	167 517 732 ^	353.00
¾	167 517 713 ^	212.00	167 517 733 ^	412.00
1	167 517 714 ^	283.00	167 517 734 ^	493.00
1 ¼	167 517 715 ^	326.00	167 517 735 ^	632.00
1 ½	167 517 716 ^	434.00	167 517 736 ^	776.00
2	167 517 717 ^	549.00	167 517 737 ^	987.00
2 ½	167 317 523 *	626.00	167 317 538 *	978.00
3	167 317 024 *	927.00	167 317 039 *	1,364.00
4	167 317 325 *	1,305.00	167 317 340 *	1,817.00
6	167 317 027 *	3,717.00	167 317 042 *	5,531.00



PROGEF® Standard PP Diaphragm Valve

Type 519 Zero Static

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	IR/Butt Fusion			
			EPDM	USD	PTFE/EPDM	USD
20	20	20	167 519 101 ^	475.00	167 519 301 ^	769.00
25	20	25	167 519 103 ^	480.00	167 519 303 ^	776.00
25	25	25	167 519 104 ^	487.00	167 519 304 ^	785.00
32	20	25	167 519 107 ^	490.00	167 519 307 ^	793.00
32	25	25	167 519 108 ^	497.00	167 519 308 ^	800.00
32	32	32	167 519 109 ^	501.00	167 519 309 ^	809.00
40	20	32	167 519 112 ^	509.00	167 519 312 ^	823.00
50	20	25	167 519 118 ^	587.00	167 519 318 ^	971.00
50	25	32	167 519 119 ^	676.00	167 519 319 ^	1,049.00
50	32	32	167 519 120 ^	702.00	167 519 320 ^	1,089.00
63	20	25	167 519 125 ^	762.00	167 519 325 ^	1,122.00
63	25	32	167 519 126 ^	794.00	167 519 326 ^	1,136.00
63	32	32	167 519 127 ^	839.00	167 519 327 ^	1,160.00



PROGEF® Natural PP Diaphragm Valve

Type 515 Spigot

A

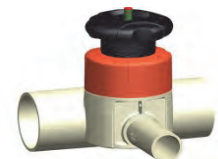
d [mm]	IR/Butt Fusion			
	EPDM	USD	PTFE/EPDM	USD
20	168 515 112	175.00	168 515 132	309.00
25	168 515 113	191.00	168 515 133	332.00
32	168 515 114	235.00	168 515 134	397.00
40	168 515 115	296.00	168 515 135	513.00
50	168 515 116	366.00	168 515 136	662.00
63	168 515 117	456.00	168 515 137	788.00



Type 519 Zero Static

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	IR/Butt Fusion			
			EPDM	USD	PTFE/EPDM	USD
20	20	20	168 519 101 ^	576.00	168 519 301 ^	823.00
25	20	25	168 519 103 ^	589.00	168 519 303 ^	842.00
25	25	25	168 519 104 ^	599.00	168 519 304 ^	849.00
32	20	25	168 519 107 ^	599.00	168 519 307 ^	857.00
32	25	25	168 519 108 ^	605.00	168 519 308 ^	863.00
32	32	32	168 519 109 ^	613.00	168 519 309 ^	875.00
40	20	32	168 519 112 ^	627.00	168 519 312 ^	894.00
50	20	25	168 519 118 ^	731.00	168 519 318 ^	1,049.00
50	25	32	168 519 119 ^	793.00	168 519 319 ^	1,141.00
50	32	32	168 519 120 ^	823.00	168 519 320 ^	1,172.00
63	20	25	168 519 125 ^	857.00	168 519 325 ^	1,214.00
63	25	32	168 519 126 ^	857.00	168 519 326 ^	1,237.00
63	32	32	168 519 127 ^	875.00	168 519 327 ^	1,252.00



SYGEF® Standard PVDF Diaphragm Valve



514 Socket Fusion Union



514 IR/Butt Fusion Union



515 IR/Butt Fusion

Type 514 Union

A

d [mm]	Socket Fusion Union		IR/Butt Fusion Union	
	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 514 032	491.00	185 514 132	491.00
25	185 514 033	523.00	185 514 133	523.00
32	185 514 034	607.00	185 514 134	607.00
40	185 514 035	830.00	185 514 135	830.00
50	185 514 036	1,002.00	185 514 136	1,002.00
63	185 514 037	1,313.00	185 514 137	1,313.00

Type 515 Spigot

A

d [mm]	515 IR/Butt Fusion	
	PTFE/EPDM	USD
20	185 515 132	364.00
25	185 515 133	397.00
32	185 515 134	452.00
40	185 515 135	623.00
50	185 515 136	753.00
63	185 515 137	987.00

Type 517/317 ANSI Flanged

A

Size [inch]	517 ANSI Flanged	
	PTFE/EPDM	USD
½	185 517 732 ^	435.00
¾	185 517 733 ^	482.00
1	185 517 734 ^	554.00
1 ¼	185 517 735 ^	746.00
1 ½	185 517 736 ^	901.00
2	185 517 737 ^	1,188.00
2 ½	175 317 538 *	2,067.00
3	175 317 009 *	3,911.00
4	175 317 340 *	6,083.00
6	175 317 012 *	10,697.00



SYGEF® Plus PVDF-HP Diaphragm Valve

Type 514 Union

A

d [mm]	514 IR/Butt Fusion Union			
	PTFE/EPDM	USD	PTFE/FKM	USD
20	181 514 132	639.00	181 514 152 *	670.00
25	181 514 133	679.00	181 514 153 *	712.00
32	181 514 134	787.00	181 514 154 *	825.00
40	181 514 135	1,091.00	181 514 155 *	1,143.00
50	181 514 136	1,303.00	181 514 156 *	1,366.00
63	181 514 137	1,725.00	181 514 157 *	1,809.00



Type 515 Spigot

A

d [mm]	515 IR/Butt Fusion			
	PTFE/EPDM	USD	PTFE/FKM	USD
20	181 515 132	477.00	181 515 152 *	501.00
25	181 515 133	509.00	181 515 153 *	535.00
32	181 515 134	589.00	181 515 154 *	617.00
40	181 515 135	809.00	181 515 155 *	849.00
50	181 515 136	978.00	181 515 156 *	1,026.00
63	181 515 137	1,284.00	181 515 157 *	1,349.00



SYGEF® Plus PVDF-HP Diaphragm Valve



A

Type 317 ANSI Flanged

Size [inch]	317 ANSI Flanged	
	PTFE/EPDM	USD
2 ½	175 317 568 *	2,240.00
3	175 317 054 *	3,952.00
4	175 317 355 *	6,057.00
6	175 317 057 *	13,700.00

Type 519 Zero Static

A

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	IR/Butt Fusion			
			PTFE/EPDM	USD	PTFE/FKM	USD
20	20	20	181 519 301 ^	965.00	181 519 501 *	1,011.00
25	20	25	181 519 303 ^	980.00	181 519 503 *	1,028.00
25	25	25	181 519 304 ^	997.00	181 519 504 *	1,045.00
32	20	25	181 519 307 ^	997.00	181 519 507 *	1,045.00
32	25	25	181 519 308 ^	997.00	181 519 508 *	1,045.00
32	32	32	181 519 309 ^	1,009.00	181 519 509 *	1,060.00
40	20	32	181 519 312 ^	1,009.00	181 519 512 *	1,060.00
40	25	32	181 519 313 ^	1,056.00	181 519 513 *	1,106.00
40	32	32	181 519 314 ^	1,089.00	181 519 514 *	1,141.00
40	40	32	181 519 315 ^	1,135.00	181 519 515 *	1,191.00
50	20	25	181 519 318 ^	1,274.00	181 519 518 *	1,336.00
50	25	32	181 519 319 ^	1,384.00	181 519 519 *	1,451.00
50	32	32	181 519 320 ^	1,428.00	181 519 520 *	1,500.00
50	40	63	181 519 321 ^	1,445.00	181 519 521 *	1,516.00
50	50	63	181 519 322 ^	1,508.00	181 519 522 *	1,583.00
63	20	25	181 519 325 ^	1,554.00	181 519 525 *	1,630.00
63	25	32	181 519 326 ^	1,632.00	181 519 526 *	1,712.00
63	32	32	181 519 327 ^	1,708.00	181 519 527 *	1,792.00
63	40	63	181 519 328 ^	1,803.00	181 519 528 *	1,891.00
63	50	63	181 519 329 ^	1,803.00	181 519 529 *	1,891.00
63	63	63	181 519 330 ^	1,975.00	181 519 530 *	2,071.00
90	20	32	181 519 341 ^	2,454.00	181 519 541 *	2,574.00
90	25	32	181 519 342 ^	2,485.00	181 519 542 *	2,607.00
90	32	32	181 519 343 ^	2,547.00	181 519 543 *	2,672.00
90	50	63	181 519 345 ^	3,104.00	181 519 545 *	3,257.00
90	63	63	181 519 346 ^	3,454.00	181 519 546 *	3,624.00
110	20	32	181 519 351 ^	2,688.00	181 519 551 *	2,818.00
110	25	32	181 519 352 ^	2,780.00	181 519 552 *	2,918.00
110	32	32	181 519 353 ^	2,873.00	181 519 553 *	3,015.00
110	50	63	181 519 355 ^	3,416.00	181 519 555 *	3,585.00
110	63	63	181 519 356 ^	4,349.00	181 519 556 *	4,562.00



Type 561 Cone Check Valve

For vertical installation - No spring included



PVC Socket/Threaded NPT

CPVC Socket/Threaded NPT

A

PVC and CPVC

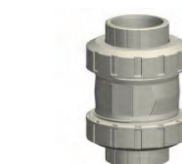
Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 561 101	54.00	161 561 111	64.00	163 561 101	107.00	163 561 111	118.00
1/2	161 561 102	54.00	161 561 112	64.00	163 561 102	107.00	163 561 112	118.00
3/4	161 561 103	63.00	161 561 113	67.00	163 561 103	127.00	163 561 113	145.00
1	161 561 104	66.00	161 561 114	81.00	163 561 104	152.00	163 561 114	181.00
1 1/4	161 561 105	82.00	161 561 115	97.00	163 561 105	223.00	163 561 115	261.00
1 1/2	161 561 106	100.00	161 561 116	128.00	163 561 106	233.00	163 561 116	279.00
2	161 561 107	145.00	161 561 117	188.00	163 561 107	296.00	163 561 117	371.00
2 1/2	161 561 108	339.00	161 561 118 ^	407.00	163 561 108 ^	756.00	163 561 118 ^	909.00
3	161 561 109	401.00	161 561 119 ^	506.00	163 561 109 ^	946.00	163 561 119 ^	1,134.00
4	161 561 110	943.00	161 561 120 ^	1,044.00	163 561 110 ^	1,698.00	163 561 120 ^	2,798.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 561 001	73.00	167 561 011	82.00	-	-	-	-
20	167 561 002	82.00	167 561 012	90.00	167 561 082	86.00	167 561 092	91.00
25	167 561 003	90.00	167 561 013	101.00	167 561 083	90.00	167 561 093	102.00
32	167 561 004	109.00	167 561 014	121.00	167 561 084	109.00	167 561 094	121.00
40	167 561 005	129.00	167 561 015	141.00	167 561 085	129.00	167 561 095	141.00
50	167 561 006	154.00	167 561 016	181.00	167 561 086	160.00	167 561 096	181.00
63	167 561 007	228.00	167 561 017	279.00	167 561 087	250.00	167 561 097	279.00
75	167 561 008 ^	484.00	167 561 018 ^	581.00	167 561 088 ^	545.00	167 561 098 ^	656.00
90	167 561 009 ^	605.00	167 561 019 ^	727.00	167 561 089 ^	684.00	167 561 099 ^	821.00
110	167 561 010 ^	1,137.00	167 561 020 ^	1,175.00	167 561 090 ^	1,137.00	167 561 100 ^	1,175.00

Size [inch]	Threaded NPT			
	EPDM	USD	FKM	USD
3/8	167 561 101	86.00	167561111	90.00
1/2	167 561 102	86.00	167561112	90.00
3/4	167 561 103	101.00	167561113	109.00
1	167 561 104	121.00	167561114	129.00
1 1/4	167 561 105	129.00	167561115	141.00
1 1/2	167 561 106	178.00	167561116	201.00
2	167 561 107	263.00	167561117	309.00



Socket Fusion/Threaded NPT



IR/Butt Fusion

Type 561 Cone Check Valve

For vertical installation - No spring included

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion	
	FKM	USD	FKM	USD
16	175 561 011 ^	416.00	-	-
20	175 561 012 ^	420.00	175 561 092 ^	476.00
25	175 561 013 ^	519.00	175 561 093 ^	574.00
32	175 561 014 ^	607.00	175 561 094 ^	662.00
40	175 561 015 ^	1,002.00	175 561 095 ^	1,105.00
50	175 561 016 ^	1,083.00	175 561 096 ^	1,179.00
63	175 561 017 ^	1,816.00	175 561 097 ^	1,953.00
75	175 561 018 ^	4,205.00	175 561 098 ^	4,719.00
90	175 561 019 ^	5,258.00	175 561 099 ^	5,896.00
110	175 561 020 ^	6,310.00	175 561 100 ^	7,074.00



Socket Fusion



IR/Butt Fusion

Type 562 Cone Check Valve

For vertical or horizontal installation - Includes SS spring

Alternative spring materials available



PVC Socket/Threaded NPT



CPVC Socket/Threaded NPT

PVC and CPVC

A



Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 562 101	77.00	161 562 111	91.00	163 562 101	155.00	163 562 111	183.00
1/2	161 562 102	77.00	161 562 112	91.00	163 562 102	155.00	163 562 112	183.00
3/4	161 562 103	88.00	161 562 113	102.00	163 562 103	182.00	163 562 113	215.00
1	161 562 104	96.00	161 562 114	113.00	163 562 104	219.00	163 562 114	259.00
1 1/4	161 562 105	116.00	161 562 115	135.00	163 562 105	313.00	163 562 115	368.00
1 1/2	161 562 106	144.00	161 562 116	167.00	163 562 106	332.00	163 562 116	391.00
2	161 562 107	203.00	161 562 117	238.00	163 562 107	424.00	163 562 117	501.00
2 1/2	161 562 108	406.00	161 562 118 ^	474.00	163 562 108 ^	853.00	163 562 118 ^	1,003.00
3	161 562 109	506.00	161 562 119 ^	593.00	163 562 109 ^	1,066.00	163 562 119 ^	1,254.00
4	161 562 110	1,319.00	161 562 120 ^	1,463.00	163 562 110 ^	2,379.00	163 562 120 ^	3,541.00

Type 562 Cone Check Valve

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

PROGEF® Standard PP

A



d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 562 001	120.00	167 562 011	143.00	-	-	-	-
20	167 562 002	120.00	167 562 012	143.00	167 562 082	134.00	167 562 092	156.00
25	167 562 003	128.00	167 562 013	151.00	167 562 083	143.00	167 562 093	166.00
32	167 562 004	144.00	167 562 014	167.00	167 562 084	155.00	167 562 094	185.00
40	167 562 005	169.00	167 562 015	198.00	167 562 085	185.00	167 562 095	218.00
50	167 562 006	194.00	167 562 016	227.00	167 562 086	211.00	167 562 096	247.00
63	167 562 007	285.00	167 562 017	333.00	167 562 087	303.00	167 562 097	357.00
75	167 562 008 ^	568.00	167 562 018 ^	664.00	167 562 088 ^	590.00	167 562 098 ^	698.00
90	167 562 009 ^	710.00	167 562 019 ^	829.00	167 562 089 ^	767.00	167 562 099 ^	904.00
110	167 562 010 ^	1,594.00	167 562 020 ^	1,644.00	167 562 090 ^	1,594.00	167 562 100 ^	1,644.00
Size [inch]	Threaded NPT							
	EPDM	USD	FKM	USD				
3/8	167 562 101	136.00	167 562 111	160.00				
1/2	167 562 102	136.00	167 562 112	160.00				
3/4	167 562 103	146.00	167 562 113	171.00				
1	167 562 104	161.00	167 562 114	188.00				
1 1/4	167 562 105	191.00	167 562 115	225.00				
1 1/2	167 562 106	219.00	167 562 116	257.00				
2	167 562 107	319.00	167 562 117	377.00				

Socket Fusion/Threaded NPT

IR/Butt Fusion

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion			
	FKM	USD	FKM	USD		
16	175 562 011 ^	482.00	-	-		
20	175 562 012 ^	486.00	175 562 092 ^	546.00		
25	175 562 013 ^	598.00	175 562 093 ^	671.00		
32	175 562 014 ^	702.00	175 562 094 ^	787.00		
40	175 562 015 ^	1,145.00	175 562 095 ^	1,287.00		
50	175 562 016 ^	1,239.00	175 562 096 ^	1,392.00		
63	175 562 017 ^	2,083.00	175 562 097 ^	2,337.00		
75	175 562 018 ^	4,205.00	175 562 098 ^	4,719.00		
90	175 562 019 ^	5,258.00	175 562 099 ^	5,896.00		
110	175 562 020 ^	6,310.00	175 562 100 ^	7,074.00		

Socket Fusion

IR/Butt Fusion

Type 591 Ventilating and Vacuum Breaker Valve



PVC Socket/Threaded NPT



PVC Socket/Threaded NPT



PP Socket Fusion



PP IR/Butt Fusion

Does not include spring

PVC and CPVC

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 591 101	81.00	161 591 111	97.00	163 591 101	171.00	163 591 111	204.00
1/2	161 591 102	81.00	161 591 112	97.00	163 591 102	171.00	163 591 112	204.00
3/4	161 591 103	107.00	161 591 113	127.00	163 591 103	233.00	163 591 113	279.00
1	161 591 104	130.00	161 591 114	156.00	163 591 104	326.00	163 591 114	390.00
1 1/4	161 591 105	157.00	161 591 115	190.00	163 591 105	470.00	163 591 115	565.00
1 1/2	161 591 106	245.00	161 591 116	295.00	163 591 106	617.00	163 591 116	742.00
2	161 591 107	350.00	161 591 117	420.00	163 591 107	782.00	163 591 117	939.00
2 1/2	161 591 108 ^	562.00	161 591 118 ^	673.00	163 591 108 *	1,250.00	163 591 118 *	1,503.00
3	161 591 109 ^	702.00	161 591 119 ^	840.00	163 591 109 *	1,564.00	163 591 119 *	1,879.00
4	161 591 110 ^	840.00	161 591 120 ^	1,009.00	163 591 110 *	1,879.00	163 591 120 *	2,251.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 591 001 ^	157.00	167 591 011 ^	190.00	167 591 041 ^	157.00	167 591 051 ^	190.00
20	167 591 002	157.00	167 591 012	190.00	167 591 042	157.00	167 591 052	190.00
25	167 591 003 ^	197.00	167 591 013 ^	235.00	167 591 043 ^	197.00	167 591 053 ^	235.00
32	167 591 004	248.00	167 591 014	297.00	167 591 044	248.00	167 591 054	297.00
40	167 591 005 ^	295.00	167 591 015 ^	353.00	167 591 045 ^	295.00	167 591 055 ^	353.00
50	167 591 006	418.00	167 591 016	501.00	167 591 046	418.00	167 591 056	501.00
63	167 591 007	613.00	167 591 017	736.00	167 591 047	613.00	167 591 057	736.00
75	167 591 008 *	982.00	167 591 018 *	1,178.00	167 591 048 *	982.00	167 591 058 *	1,178.00
90	167 591 009 *	1,228.00	167 591 019 *	1,473.00	167 591 049 *	1,228.00	167 591 059 *	1,473.00
110	167 591 010 *	1,473.00	167 591 020 *	1,768.00	167 591 050 *	1,473.00	167 591 060 *	1,768.00

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion	
	FKM	USD	FKM	USD
16	175 591 011 ^	582.00	175 591 031 ^	582.00
20	175 591 012 ^	589.00	175 591 032 ^	589.00
25	175 591 013 ^	723.00	175 591 033 ^	723.00
32	175 591 014 ^	851.00	175 591 034 ^	851.00
40	175 591 015 ^	1,401.00	175 591 035 ^	1,401.00
50	175 591 016 ^	1,513.00	175 591 036 ^	1,513.00
63	175 591 017 ^	2,551.00	175 591 037 ^	2,551.00
75	175 591 018 *	5,105.00	-	-
90	175 591 019 *	6,380.00	-	-
110	175 591 020 *	7,654.00	-	-



PVDF Socket Fusion



PVDF IR/Butt Fusion

Type 595 Vacuum Breaker Valve



PVC Socket/Threaded NPT



CPVC Socket/Threaded NPT



PP Socket Fusion



PP IR/Butt Fusion

Includes SS spring. Alternative spring materials available

PVC and CPVC

A

Size [inch]	PVC Socket/Threaded NPT				CPVC Socket/Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	161 595 101 ^	97.00	161 595 111 ^	113.00	163 595 101 ^	194.00	163 595 111 ^	227.00
1/2	161 595 102	97.00	161 595 112	113.00	163 595 102	194.00	163 595 112	227.00
3/4	161 595 103 ^	127.00	161 595 113 ^	150.00	163 595 103 ^	264.00	163 595 113 ^	313.00
1	161 595 104	156.00	161 595 114	183.00	163 595 104	364.00	163 595 114	430.00
1 1/4	161 595 105 ^	190.00	161 595 115 ^	223.00	163 595 105 ^	516.00	163 595 115 ^	611.00
1 1/2	161 595 106	295.00	161 595 116	346.00	163 595 106	687.00	163 595 116	810.00
2	161 595 107	420.00	161 595 117	492.00	163 595 107	882.00	163 595 117	1,037.00
2 1/2	161 595 108 *	673.00	161 595 118 *	786.00	163 595 108 *	1,412.00	163 595 118 *	1,661.00
3	161 595 109 *	840.00	161 595 119 *	981.00	163 595 109 *	1,765.00	163 595 119 *	2,076.00
4	161 595 110 *	1,008.00	161 595 120 *	1,176.00	163 595 110 *	2,117.00	163 595 120 *	2,491.00

PROGEF® Standard PP

A

d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	167 595 001 ^	183.00	167 595 011 ^	214.00	167 595 041 ^	183.00	167 595 051 ^	214.00
20	167 595 002	183.00	167 595 012	214.00	167 595 042	183.00	167 595 052	214.00
25	167 595 003 ^	228.00	167 595 013 ^	269.00	167 595 043 ^	228.00	167 595 053 ^	269.00
32	167 595 004	288.00	167 595 014	339.00	167 595 044	288.00	167 595 054	339.00
40	167 595 005 ^	344.00	167 595 015 ^	402.00	167 595 045 ^	344.00	167 595 055 ^	402.00
50	167 595 006	494.00	167 595 016	575.00	167 595 046	494.00	167 595 056	575.00
63	167 595 007	718.00	167 595 017	842.00	167 595 047	718.00	167 595 057	842.00
75	167 595 008 *	1,149.00	167 595 018 *	1,349.00	167 595 048 *	1,149.00	167 595 058 *	1,349.00
90	167 595 009 *	1,440.00	167 595 019 *	1,683.00	167 595 049 *	1,440.00	167 595 059 *	1,683.00
110	167 595 010 *	1,726.00	167 595 020 *	2,020.00	167 595 050 *	1,726.00	167 595 060 *	2,020.00

SYGEF® Standard PVDF

A

d [mm]	Socket Fusion		IR/Butt Fusion	
	FKM	USD	FKM	USD
16	175 595 011 ^	602.00	175 595 031 ^	602.00
20	175 595 012 ^	609.00	175 595 032 ^	609.00
25	175 595 013 ^	747.00	175 595 033 ^	747.00
32	175 595 014 ^	876.00	175 595 034 ^	876.00
40	175 595 015 ^	1,431.00	175 595 035 ^	1,431.00
50	175 595 016 ^	1,549.00	175 595 036 ^	1,549.00
63	175 595 017 ^	2,605.00	175 595 037 ^	2,605.00
75	175 595 018 *	5,207.00	-	-
90	175 595 019 *	6,510.00	-	-
110	175 595 020 *	7,812.00	-	-



PVDF Socket Fusion



PVDF IR/Butt Fusion

Accessories Cone Check Valve

Spring

A

d - Size [mm]-[inch]	Stainless Steel		NIMONIC 90		Halar coated Stainless Steel	
	Part No.	USD	Part No.	USD	Part No.	USD
16 - 3/8	161 485 132	11.00	161 485 152 ^	56.00	161 485 142 ^	114.00
20 - 1/2	161 485 132	11.00	161 485 152 ^	56.00	161 485 142 ^	114.00
25 - 3/4	161 485 132	11.00	161 485 152 ^	56.00	161 485 142 ^	114.00
32 - 1	161 485 133	12.00	161 485 153 ^	61.00	161 485 143 ^	123.00
40 - 1 1/4	161 485 134	17.00	161 485 154 ^	75.00	161 485 144 ^	146.00
50 - 1 1/2	161 485 135	23.00	161 485 155 ^	92.00	161 485 145 ^	184.00
63 - 2	161 485 136	30.00	161 485 156 ^	130.00	161 485 146 ^	260.00
75 - 2 1/2	161 485 137 ^	59.00	161 485 157 ^	260.00	161 485 147 ^	320.00
90 - 3	161 485 138 ^	72.00	161 485 158 ^	325.00	161 485 148 ^	415.00
110 - 4	161 485 139 ^	88.00	161 485 159 ^	390.00	161 485 149 ^	477.00



Type 050 PVC Screen Assembly

A

Size [inch]	Socket / Barrel Nipple		Size [inch]	Socket Only	
	Part No.	USD		Part No.	USD
1/2	161 050 186 *	49.00	3	161 050 053 *	151.00
3/4	161 050 187 *	51.00			
1	161 050 188 *	64.00			
1 1/4	161 050 189 *	75.00			
1 1/2	161 050 190 *	113.00			
2	161 050 191 *	130.00			



Type 369 PVC Wafer Check Valve

Size [inch]	Without Spring				With SS-316 Spring			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
1 1/2	161 369 003	158.00	161 369 023	258.00	161 369 043 ^	258.00	161 369 063 ^	356.00
2	161 369 004	168.00	161 369 024	274.00	161 369 044 ^	274.00	161 369 064 ^	382.00
2 1/2	161 369 005	204.00	161 369 025	335.00	161 369 045 ^	320.00	161 369 065 ^	449.00
3	161 369 006	220.00	161 369 026	374.00	161 369 046 ^	343.00	161 369 066 ^	496.00
4	161 369 007	258.00	161 369 027	442.00	161 369 047 ^	382.00	161 369 067 ^	565.00
6	161 369 010	374.00	161 369 030	610.00	161 369 050 ^	519.00	161 369 070 ^	761.00
8	161 369 011	472.00	161 369 031	722.00	161 369 051 ^	640.00	161 369 071 ^	899.00
10	161 369 012	716.00	161 369 032	1,066.00	161 369 052 ^	913.00	161 369 072 ^	1,247.00
12	161 369 013	1,011.00	161 369 033	1,415.00	161 369 053 ^	1,281.00	161 369 073 ^	1,653.00

Size [inch]	With Hastelloy-C Spring			
	EPDM	USD	FKM	USD
1 1/2	161 369 083 ^	304.00	161 369 103 ^	403.00
2	161 369 084 ^	328.00	161 369 104 ^	433.00
2 1/2	161 369 085 ^	366.00	161 369 105 ^	496.00
3	161 369 086 ^	388.00	161 369 106 ^	546.00
4	161 369 087 ^	442.00	161 369 107 ^	624.00
6	161 369 090 ^	587.00	161 369 110 ^	822.00
8	161 369 091 ^	700.00	161 369 111 ^	958.00
10	161 369 092 ^	1,021.00	161 369 112 ^	1,361.00
12	161 369 093 ^	1,389.00	161 369 113 ^	1,767.00



Spacer



Size [inch]	PP	USD
4	150 369 340 *	254.00
6	150 369 360 *	421.00
8	150 369 380 *	619.00
10	150 369 310 *	1,126.00
12	150 369 312 *	1,690.00

Spacer ensures valve opens when used with certain kinds of flanges

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

Type 522 Needle Valve



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	140.00	155 522 579	126.00
⅜	-	-	-	-	155 522 555	140.00	-	-
½	157 522 556	122.00	157 522 581	122.00	155 522 556	140.00	155 522 581	126.00

PVDF-HP

Size [inch]	Threaded NPT					
	PVDF-HP					
	Globe Body		Angle Body			
	PTFE	USD	PTFE	USD		
¼	150 900 117 *	238.00	150 900 113 *	183.00		
⅜	150 900 116 *	238.00	-	-		
½	150 900 122 *	238.00	150 900 120 *	183.00		

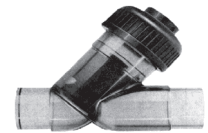


Angle Seat Valves

Type 304 Y-Check Valve Translucent PVC

A

Size [inch]	IPS Spigot			
	EPDM	USD	FKM	USD
½	192 304 006	52.00	192 304 031	63.00
¾	192 304 007	61.00	192 304 032	75.00
1	192 304 008	70.00	192 304 033	87.00
1 ¼	192 304 009	91.00	192 304 034	117.00
1 ½	192 304 010	128.00	192 304 035	183.00
2	192 304 011	186.00	192 304 036	255.00
3	192 304 013	418.00	192 304 038	484.00



Type 306 Line Strainer Translucent PVC

A

Size [inch]	IPS Spigot			
	EPDM	USD	FKM	USD
½	192 306 300	61.00	192 306 349	75.00
¾	192 306 350	71.00	192 306 399	83.00
1	192 306 400	80.00	192 306 449	88.00
1 ¼	192 306 450	138.00	192 306 499	150.00
1 ½	192 306 500	145.00	192 306 549	165.00
2	192 306 550	180.00	192 306 599	202.00
3	192 306 650	342.00	192 306 699	401.00



Standard valve includes 20 Mesh Screen

Accessories Type 306 Line Strainer

Perforation

A

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
1/2	161 305 336 ^	6.00	161 305 337 ^	6.00	161 305 338 ^	6.00	161 305 339 ^	6.00
3/4	161 305 386 ^	6.00	161 305 387 ^	6.00	161 305 388 ^	6.00	161 305 389 ^	7.00
1	161 305 436 ^	6.00	161 305 437 ^	7.00	161 305 438 ^	6.00	161 305 439 ^	8.00
1 1/4	161 305 486 ^	8.00	161 305 487 ^	8.00	161 305 488 ^	8.00	161 305 489 ^	9.00
1 1/2	161 305 536 ^	10.00	161 305 537 ^	9.00	161 305 538 ^	9.00	161 305 539 ^	10.00
2	161 305 586 ^	13.00	161 305 587 ^	12.00	161 305 588 ^	19.00	161 305 589 ^	19.00
3	161 305 686 ^	23.00	161 305 687 ^	23.00	161 305 688 ^	24.00	161 305 689 ^	24.00

Size [inch]	Stainless Steel	
	Part No.	USD
1/2	161 486 100 ^	11.00
3/4	161 486 101 ^	17.00
1	161 486 102 ^	17.00
1 1/4	161 486 103 ^	20.00
1 1/2	161 486 104 ^	23.00
2	161 486 105 ^	26.00
3	161 486 107 ^	49.00



Screen Set

A

Size [inch]	PVC	USD
1/2	161 483 126 ^	21.00
3/4	161 483 127 ^	24.00
1	161 483 128 ^	39.00
1 1/4	161 483 129 ^	50.00
1 1/2	161 483 130 ^	60.00
2	161 483 131 ^	68.00
3	161 483 133 ^	102.00

Screen set (1/2 - 2") consists of: screen, screen support ring, and circlip

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

Circlip

A

Size [inch]	PP	USD
1/2	161 482 017 ^	2.00
3/4	161 482 018 ^	2.00
1	161 482 019 ^	2.00
1 1/4	161 482 020 ^	3.00
1 1/2	161 482 021 ^	3.00
2	161 482 022 ^	3.00

Plug

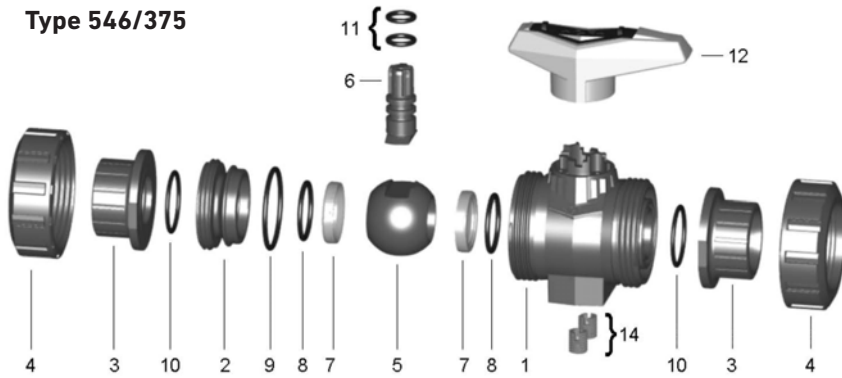
A

Size [inch]	PVC	USD
3	161 305 654 ^	38.00

Valve Spare Parts

Spare parts are listed on the following pages of the price list. The below tables are the available spare parts for the shown valves, not all of them are shown in this book. Please contact inside sales for part numbers and pricing if a desired part is not listed.

Type 546/375



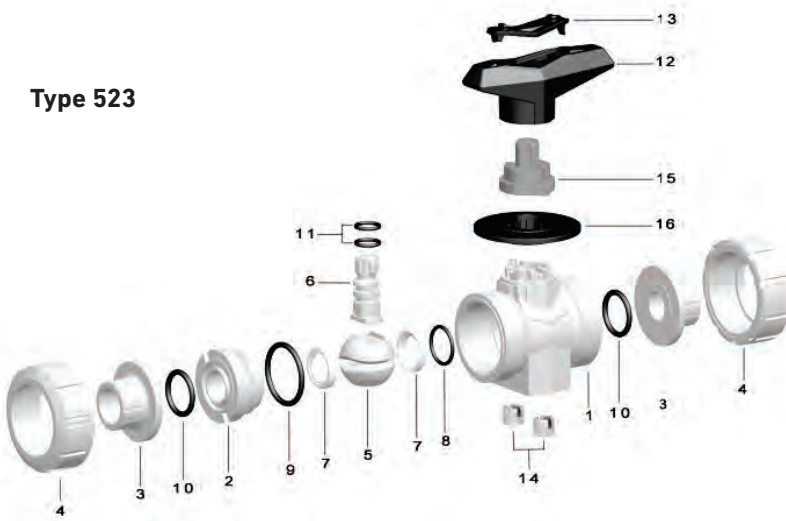
Type 546

Spare Part No.	Description	Note
4	Valve nut	-
3	Valve end	-
10	Face seal	-
5	Ball	-
6	Stem	-
12	Handle	-
5-9, 11	Ball set	-
7-11	Seal set	-
1-2, 5-12, 14	Core	-

Type 375

Spare Part No.	Description	Note
4	Valve nut	PVC only
3	Valve end	PVC only

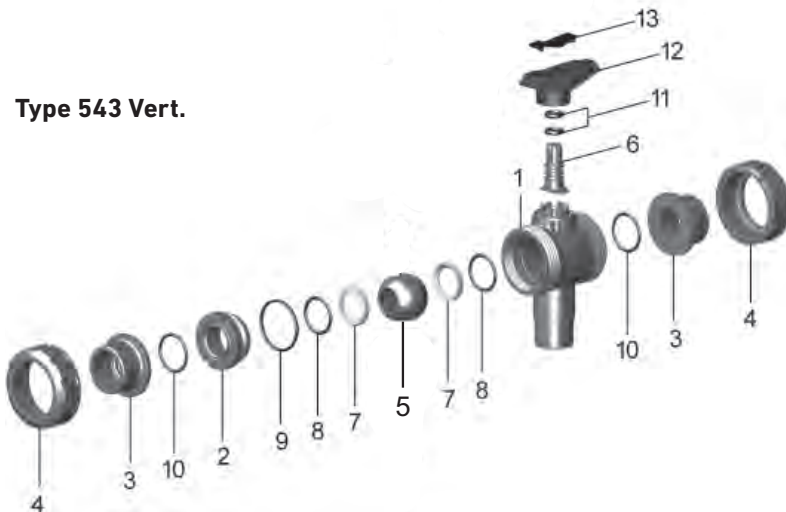
Type 523



Type 523

Spare Part No.	Description	Note
4	Valve nut	Same as 546
3	Valve end	Same as 546
10	Face seal	Same as 546
6	Stem	Same as 546
12-13	Handle	-
7-9, 11	Seal set	Same as 546
16	Index plate	-
15	Indicator insert	-
1-2, 5-14	Core	-

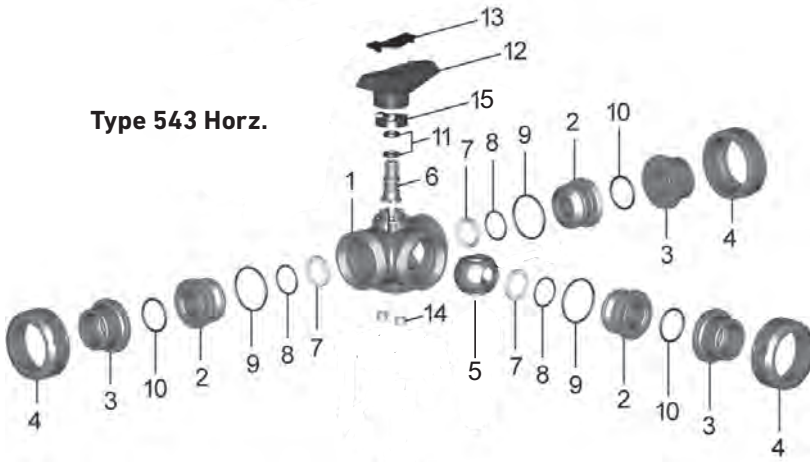
Type 543 Vert.



Type 543 Vertical

Spare Part No.	Description	Note
4	Valve nut	Same as 546
3	Valve end	Same as 546
10	Face seal	Same as 546
12-13	Handle	-
5-9, 11	Ball set	-
7-9, 11	Seal set	Same as 546
1-2, 5-13	Core	-

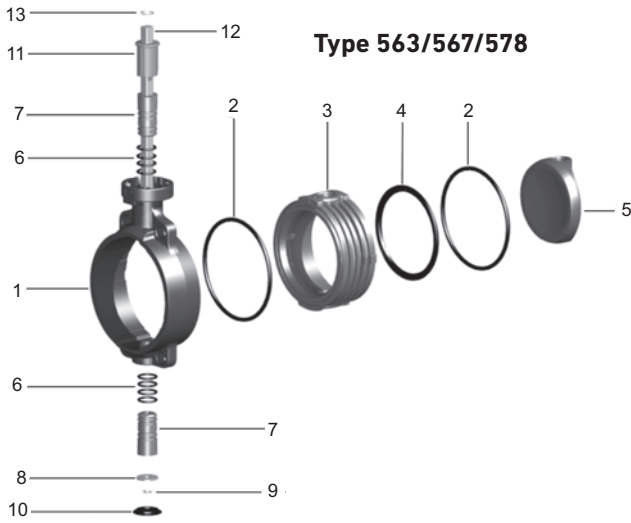
Type 543 Horz.



Type 543 Horizontal

Spare Part No.	Description	Note
4	Valve nut	Same as 546
3	Valve end	Same as 546
10	Face seal	Same as 546
12-13	Handle	-
5-9, 11	Ball set	-
7-9, 11	Seal set	-
15	Turn limiter	-
1-2, 5-14	Core	-

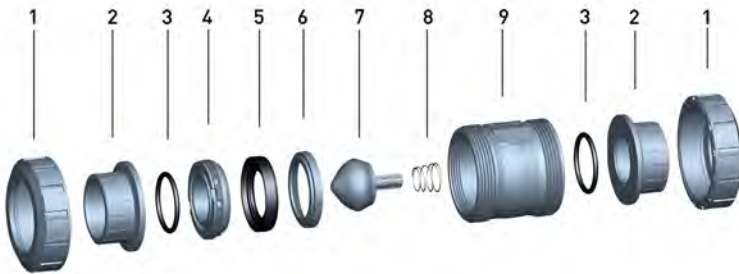
Type 563/567/578



Type 563/567/578

Spare Part No.	Description	Note
5	Disc	-
2	Face seal	Sold as 1 pc
3-4	Inner body/disc seal	Not sold separate
6-7	Shaft bushing with seals	Sold in set
11	End stop	-
-	Lever/index plate	Not shown
-	Gear op	Not shown

Type 561/562/591/591



Type 561/562/591/595

Spare Part No.	Description	Note
1	Valve end	Same as 546
2	Valve end	Same as 546
3	Face seal	Same as 546
5	Profile seal	-
7	Cone	-
8	Spring	-
3-9	Core	-
-	Cap 591-595	Not shown

Diaphragm Valve



Diaphragm Valves

Spare Part No.	Description	Note
1	Body	-
2	Union end	Standard non-vinyl union
3	Union nut	Standard non-vinyl union
-	Face seal (not shown)	Standard non-vinyl union
4-5	Diaphragm	-
6	Compressor	-
7-9	Spindle	-
6-13	Bonnet assembly	-
9	Position indicator	-
12-13	Handle	-

Spare Parts



Socket



Socket Fusion



IR/Butt Fusion



Threaded NPT

Valve End Type 523, 543, 546, 561/562, 591/595

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	17.00	163 481 315	14.00	163 481 326	14.00
1 1/2	161 490 717	8.00	161 490 728	23.00	163 481 316	25.00	163 481 327	25.00
2	161 490 718	19.00	161 490 729	31.00	163 481 317	29.00	163 481 328	29.00
2 1/2	161 490 719	38.00	161 490 730	71.00	163 481 318	68.00	163 481 329	102.00
3	161 490 720	50.00	161 490 731	155.00	163 481 319	85.00	163 481 330	114.00
4	161 490 721	60.00	161 490 732	346.00	163 481 320	105.00	163 481 331	117.00
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	3.00	-	-	167 482 966	17.00	-	-
20 - 1/2	167 482 901	3.00	167 482 945	5.00	167 482 967	19.00	168 480 260	35.00
25 - 3/4	167 482 902	3.00	167 482 946	6.00	167 482 968	21.00	168 480 261	36.00
32 - 1	167 482 903	4.00	167 482 947	7.00	167 482 969	24.00	168 480 262	36.00
40 - 1 1/4	167 482 904	6.00	167 482 948	8.00	167 482 970	29.00	168 480 263	41.00
50 - 1 1/2	167 482 905	6.00	167 482 949	10.00	167 482 971	32.00	168 480 264	43.00
63 - 2	167 482 906	9.00	167 482 950	17.00	167 482 972	38.00	168 480 265	43.00
75 - 2 1/2	167 482 907	30.00	167 482 951	46.00	-	-	-	-
90 - 3	167 482 908	35.00	167 482 952	55.00	-	-	-	-
110 - 4	167 482 909	46.00	167 482 953	66.00	-	-	-	-
d - Size [mm]-[inch]	PVDF				304 SS			
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD	Threaded NPT	USD
16 - 3/8	175 483 025	17.00	-	-	175 483 058	22.00	-	-
20 - 1/2	175 483 026	19.00	175 483 048	34.00	175 483 059	22.00	-	-
25 - 3/4	175 483 027	23.00	175 483 049	39.00	175 483 060	23.00	150 481 025	43.00
32 - 1	175 483 028	26.00	175 483 050	45.00	175 483 061	39.00	150 481 032	50.00
40 - 1 1/4	175 483 029	38.00	175 483 051	50.00	175 483 062	65.00	150 481 040	97.00
50 - 1 1/2	175 483 030	60.00	175 483 052	81.00	175 483 063	76.00	150 481 050	119.00
63 - 2	175 483 031	94.00	175 483 053	106.00	175 483 064	99.00	150 481 063	170.00
75 - 2 1/2	175 483 032	160.00	175 483 054	240.00	-	-	-	-
90 - 3	175 483 033	200.00	175 483 055	298.00	-	-	-	-
110 - 4	175 483 034	240.00	175 483 056	359.00	-	-	-	-

Please call Inside Sales for information on ANSI Flanged valve ends

Spare Parts

Valve End Type 375

A

Size [inch]	PVC			
	Socket	USD	Threaded NPT	USD
3/8	161 375 427	2.00	161 375 437 ^	3.00
1/2	161 375 428	2.00	161 375 438 ^	4.00
3/4	161 375 429	2.00	161 375 439 ^	5.00
1	161 375 430	2.00	161 375 440 ^	6.00
1 1/4	161 375 431	3.00	161 375 441 ^	9.00
1 1/2	161 375 432	5.00	161 375 442 ^	17.00
2	161 375 433	9.00	161 375 443 ^	24.00
2 1/2	161 375 434	29.00	161 375 444 ^	34.00
3	161 375 435	34.00	161 375 445 ^	40.00
4	161 375 436	42.00	161 375 446 ^	52.00



Valve Nut Type 523, 543, 546, 561/562, 591/595

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	5.00	175 482 938	26.00
32 - 1	161 490 540	8.00	163 481 228	14.00	167 482 714	6.00	175 482 939	32.00
40 - 1 1/4	161 490 541	11.00	163 481 229	29.00	167 482 715	8.00	175 482 940	50.00
50 - 1 1/2	161 490 542	19.00	163 481 230	35.00	167 482 716	14.00	175 482 941	65.00
63 - 2	161 490 543	30.00	163 481 231	56.00	167 482 717	25.00	175 482 942	107.00
75 - 2 1/2	161 490 544	72.00	163 481 232	122.00	167 482 718	60.00	-	-
90 - 3	161 490 545	93.00	163 481 233	154.00	167 482 719	72.00	-	-
110 - 4	161 490 546	113.00	163 481 234	184.00	167 482 720	87.00	-	-

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

Valve Face Seal Type 523, 543, 546, 561/562, 591/595

A

d - Size [mm]-[inch]	EPDM	USD	FKM	USD
16 - 3/8	748 410 059	2.00	749 410 059	4.00
20 - 1/2	748 410 059	2.00	749 410 059	4.00
25 - 3/4	748 410 106	2.00	749 410 106	4.00
32 - 1	748 410 151	3.00	749 410 151	14.00
40 - 1 1/4	748 410 062	5.00	749 410 062	24.00
50 - 1 1/2	748 410 003 *	5.00	749 410 003 *	25.00
63 - 2	748 410 231	5.00	749 410 231	29.00
75 - 2 1/2	748 410 119	3.00	749 410 119	25.00
90 - 3	748 410 023	8.00	749 410 023	52.00
110 - 4	748 410 254	25.00	749 410 254	58.00



Spare Parts

Seal Set Type Type 523, 543 Vertical, 546

A

d - Size [mm]-[inch]	EPDM	USD	FKM	USD
16 - 3/8	161 486 400	34.00	161 486 410	37.00
20 - 1/2	161 486 400	34.00	161 486 410	37.00
25 - 3/4	161 486 401	38.00	161 486 411	54.00
32 - 1	161 486 402	48.00	161 486 412	67.00
40 - 1 1/4	161 486 403	56.00	161 486 413	93.00
50 - 1 1/2	161 486 404	66.00	161 486 414	100.00
63 - 2	161 486 405	78.00	161 486 415	146.00
75 - 2 1/2	161 486 406	190.00	161 486 416	376.00
90 - 3	161 486 407	241.00	161 486 417	504.00
110 - 4	161 486 408	289.00	161 486 418	650.00



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

Seal Set Type 543 Horizontal

C

d - Size [mm]-[inch]	EPDM	USD	FKM	USD
16 - 3/8	161 488 242	34.00	161 488 248	49.00
20 - 1/2	161 488 242	34.00	161 488 248	49.00
25 - 3/4	161 488 243	35.00	161 488 249	52.00
32 - 1	161 488 244	45.00	161 488 250	75.00
40 - 1 1/4	161 488 245	48.00	161 488 251	72.00
50 - 1 1/2	161 488 246	49.00	161 488 252	90.00
63 - 2	161 488 247	60.00	161 488 253	91.00



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

Turn Limiter Type 543

A

d - Size [mm]-[inch]	90°	USD	180°	USD
16 - 3/8	167 482 479	4.00	167 482 489	4.00
20 - 1/2	167 482 479	4.00	167 482 489	4.00
25 - 3/4	167 482 480	4.00	167 482 490	4.00
32 - 1	167 482 480	4.00	167 482 490	4.00
40 - 1 1/4	167 482 481	4.00	167 482 491	4.00
50 - 1 1/2	167 482 481	4.00	167 482 491	4.00
63 - 2	167 482 482	4.00	167 482 492	4.00



3/8" and 1/2" 180° turn limiters require a special handle. Please contact Inside Sales for more information.

Spare Parts

Ball Set Type 546

A

Size [inch]	PVC/EPDM	USD	PVC/FKM	USD	CPVC/EPDM	USD	CPVC/FKM	USD
3/8	161 486 375	42.00	161 486 385	50.00	163 481 375	66.00	163 481 385	80.00
1/2	161 486 375	42.00	161 486 385	50.00	163 481 375	66.00	163 481 385	80.00
3/4	161 486 376	45.00	161 486 386	60.00	163 481 376	67.00	163 481 386	94.00
1	161 486 377	54.00	161 486 387	66.00	163 481 377	83.00	163 481 387	106.00
1 1/4	161 486 378	60.00	161 486 388	80.00	163 481 378	93.00	163 481 388	127.00
1 1/2	161 486 379	72.00	161 486 389	96.00	163 481 379	115.00	163 481 389	154.00
2	161 486 380	101.00	161 486 390	141.00	163 481 380	156.00	163 481 390	228.00
2 1/2	161 486 381	241.00	161 486 391	315.00	163 481 381	301.00	163 481 391	404.00
3	161 486 382	301.00	161 486 392	391.00	163 481 382	377.00	163 481 392	504.00
4	161 486 383	363.00	161 486 393	470.00	163 481 383	451.00	163 481 393	607.00
d [mm]	PP/EPDM	USD	PP/FKM	USD	PVDF/FKM	USD		
16	167 484 125	48.00	167 484 135	56.00	175 483 275	141.00		
20	167 484 125	48.00	167 484 135	56.00	175 483 275	141.00		
25	167 484 126	50.00	167 484 136	65.00	175 483 276	162.00		
32	167 484 127	59.00	167 484 137	72.00	175 483 277	194.00		
40	167 484 128	65.00	167 484 138	87.00	175 483 278	236.00		
50	167 484 129	81.00	167 484 139	106.00	175 483 279	305.00		
63	167 484 130	112.00	167 484 140	155.00	175 483 280	451.00		
75	167 484 131	264.00	167 484 141	347.00	175 483 281	1,054.00		
90	167 484 132	331.00	167 484 142	432.00	175 483 282	1,319.00		
110	167 484 133	400.00	167 484 143	518.00	175 483 283	1,580.00		

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

Ball Set Type 543 Vertical

A

Size [inch]	L-Port				Diverter			
	PVC/EPDM	USD	PVC/FKM	USD	PVC/EPDM	USD	PVC/FKM	USD
3/8	161 488 202	61.00	161 488 212	66.00	161 488 222	61.00	161 488 232	66.00
1/2	161 488 202	61.00	161 488 212	66.00	161 488 222	61.00	161 488 232	66.00
3/4	161 488 203	70.00	161 488 213	80.00	161 488 223	70.00	161 488 233	80.00
1	161 488 204	85.00	161 488 214	94.00	161 488 224	85.00	161 488 234	94.00
1 1/4	161 488 205	99.00	161 488 215	111.00	161 488 225	99.00	161 488 235	111.00
1 1/2	161 488 206	115.00	161 488 216	123.00	161 488 226	115.00	161 488 236	123.00
2	161 488 207	145.00	161 488 217	156.00	161 488 227	145.00	161 488 237	156.00

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

Spare Parts

Ball Set Type 543 Horizontal / L-port

C

Size [inch]	PVC/EPDM	USD	PVC/FKM	USD	CPVC/EPDM	USD	CPVC/FKM	USD
3/8	161 488 162	63.00	161 488 172	64.00	163 481 982	85.00	163 481 992	85.00
1/2	161 488 162	63.00	161 488 172	64.00	163 481 982	85.00	163 481 992	85.00
3/4	161 488 163	71.00	161 488 173	72.00	163 481 983	99.00	163 481 993	99.00
1	161 488 164	72.00	161 488 174	77.00	163 481 984	101.00	163 481 994	102.00
1 1/4	161 488 165	78.00	161 488 175	82.00	163 481 985	106.00	163 481 995	114.00
1 1/2	161 488 166	90.00	161 488 176	94.00	163 481 986	121.00	163 481 996	129.00
2	161 488 167	97.00	161 488 177	99.00	163 481 987	130.00	163 481 997	135.00
d [mm]	PP/EPDM	USD	PP/FKM	USD	PVDF/FKM	USD		
16	167 484 882	64.00	167 484 892	64.00	175 483 642	245.00		
20	167 484 882	64.00	167 484 892	64.00	175 483 642	245.00		
25	167 484 883	71.00	167 484 893	75.00	175 483 643	285.00		
32	167 484 884	75.00	167 484 894	80.00	175 483 644	297.00		
40	167 484 885	80.00	167 484 895	83.00	175 483 645	319.00		
50	167 484 886	88.00	167 484 896	96.00	175 483 646	369.00		
63	167 484 887	96.00	167 484 897	97.00	175 483 647	384.00		

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

Ball Set Type 543 Horizontal / T-port

C

Size [inch]	PVC/EPDM	USD	PVC/FKM	USD	CPVC/EPDM	USD	CPVC/FKM	USD
3/8	161 488 182	61.00	161 488 192	61.00	163 482 002	85.00	163 482 012	85.00
1/2	161 488 182	61.00	161 488 192	61.00	163 482 002	85.00	163 482 012	85.00
3/4	161 488 183	68.00	161 488 193	70.00	163 482 003	99.00	163 482 013	99.00
1	161 488 184	70.00	161 488 194	72.00	163 482 004	101.00	163 482 014	102.00
1 1/4	161 488 185	75.00	161 488 195	80.00	163 482 005	106.00	163 482 015	114.00
1 1/2	161 488 186	85.00	161 488 196	90.00	163 482 006	121.00	163 482 016	129.00
2	161 488 187	91.00	161 488 197	94.00	163 482 007	130.00	163 482 017	135.00
d [mm]	PP/EPDM	USD	PP/FKM	USD	PVDF/FKM	USD		
16	167 484 902	64.00	167 484 912	64.00	175 483 652	245.00		
20	167 484 902	64.00	167 484 912	64.00	175 483 652	245.00		
25	167 484 903	71.00	167 484 913	75.00	175 483 653	285.00		
32	167 484 904	75.00	167 484 914	80.00	175 483 654	297.00		
40	167 484 905	80.00	167 484 915	83.00	175 483 655	319.00		
50	167 484 906	88.00	167 484 916	96.00	175 483 656	369.00		
63	167 484 907	96.00	167 484 917	97.00	175 483 657	384.00		

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

Spare Parts



Standard Handle



Lockable Handle

A

Handle Type 523, 546

d - Size [mm]-[inch]	Standard Handle				Lockable Handle	
	Red	USD	Black	USD	Lockable	USD
16 - 3/8	167 484 088	4.00	167 484 076	4.00	167 484 100	19.00
20 - 1/2	167 484 088	4.00	167 484 076	4.00	167 484 100	19.00
25 - 3/4	167 484 089	4.00	167 484 077	4.00	167 484 101	21.00
32 - 1	167 484 090	4.00	167 484 078	5.00	167 484 102	22.00
40 - 1 1/4	167 484 091	5.00	167 484 079	5.00	167 484 103	24.00
50 - 1 1/2	167 484 092	6.00	167 484 080	7.00	167 484 104	27.00
63 - 2	167 484 093	7.00	167 484 081	7.00	167 484 105	29.00
75 - 2 1/2	167 484 094	22.00	167 484 082	22.00	161 486 689	53.00
90 - 3	167 484 095	22.00	167 484 083	22.00	161 486 690	78.00
110 - 4	167 484 096	29.00	167 484 084	29.00	161 486 691	90.00

Handle Type 543 Vertical

A

Size [inch]	Standard Handle				Lockable 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	46.00	167 484 742	46.00
1/2	167 484 688	11.00	167 484 788	11.00	167 484 642	46.00	167 484 742	46.00
3/4	167 484 689	11.00	167 484 789	11.00	167 484 643	49.00	167 484 743	49.00
1	167 484 690	14.00	167 484 790	14.00	167 484 644	54.00	167 484 744	54.00
1 1/4	167 484 691	17.00	167 484 791	17.00	167 484 645	60.00	167 484 745	60.00
1 1/2	167 484 692	19.00	167 484 792	19.00	167 484 646	65.00	167 484 746	65.00
2	167 484 693	23.00	167 484 793	23.00	167 484 647	71.00	167 484 747	71.00

Handle Type 543 Horizontal

C

d - Size [mm]-[inch]	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	17.00	167 484 590	14.00	167 484 578	17.00
40 - 1 1/4	167 484 491	17.00	167 484 379	19.00	167 484 591	17.00	167 484 579	19.00
50 - 1 1/2	167 484 492	19.00	167 484 380	23.00	167 484 592	19.00	167 484 580	23.00
63 - 2	167 484 493	23.00	167 484 381	24.00	167 484 593	23.00	167 484 581	24.00

d - Size [mm]-[inch]	Lockable Handle			
	L-port Red	USD	T-port Red	USD
16 - 3/8	167 484 442	46.00	167 484 542	46.00
20 - 1/2	167 484 442	46.00	167 484 542	46.00
25 - 3/4	167 484 443	49.00	167 484 543	49.00
32 - 1	167 484 444	54.00	167 484 544	54.00
40 - 1 1/4	167 484 445	60.00	167 484 545	60.00
50 - 1 1/2	167 484 446	65.00	167 484 546	65.00
63 - 2	167 484 447	71.00	167 484 547	71.00

Spare Parts

Diaphragm 5-Series

C

d - Size [mm]-[inch]	NBR	USD	EPDM	USD	FKM	USD
20 - ½	745 500 012 *	25.00	748 500 012	21.00	749 500 012	97.00
25 - ¾	745 500 013 *	29.00	748 500 013	24.00	749 500 013	101.00
32 - 1	745 500 014 *	37.00	748 500 014	30.00	749 500 014	135.00
40 - 1 ¼	745 500 015 *	48.00	748 500 015	37.00	749 500 015	154.00
50 - 1 ½	745 500 016 *	65.00	748 500 016	51.00	749 500 016	154.00
63 - 2	745 500 017 *	91.00	748 500 017	71.00	749 500 017	220.00
d - Size [mm]-[inch]	PTFE/EPDM	USD	PTFE/EPDM HP	USD	PTFE/FKM	USD
20 - ½	747 502 012	117.00	747 502 032	143.00	747 503 012	117.00
25 - ¾	747 502 013	123.00	747 502 033	150.00	747 503 013	123.00
32 - 1	747 502 014	165.00	747 502 034	179.00	747 503 014	165.00
40 - 1 ¼	747 502 015	194.00	747 502 035	216.00	747 503 015	194.00
50 - 1 ½	747 502 016	206.00	747 502 036	236.00	747 503 016	206.00
63 - 2	747 502 017	295.00	747 502 037	338.00	747 503 017	295.00



Diaphragm Type 317

C

d - Size [mm]-[inch]	NBR	USD	EPDM	USD	FKM	USD
75 - 2 ½	161 480 231 *	127.00	161 481 028 *	70.00	161 481 098 *	433.00
90 - 3	161 480 232 *	137.00	161 481 029 *	84.00	161 481 099 *	471.00
110 - 4	161 480 233 *	153.00	161 481 030 *	141.00	161 481 100 *	570.00
160 - 6	161 482 751 *	817.00	161 482 754 *	573.00	161 481 102 *	2,533.00
d - Size [mm]-[inch]	PTFE/EPDM	USD	PTFE/EPDM HP	USD	PTFE/FKM	USD
75 - 2 ½	161 480 240 *	440.00	161 484 458 *	526.00	161 481 932 *	544.00
90 - 3	161 480 241 *	475.00	161 484 459 *	644.00	161 481 933 *	761.00
110 - 4	161 480 242 *	576.00	161 484 460 *	840.00	161 481 934 *	892.00
160 - 6	161 482 760 *	3,244.00	161 482 760 *	3,244.00	-	-

Bonnet Complete 5-Series

A

d - Size [mm]-[inch]	Standard		Bonnet with Seal	
	Part No.	USD	Part No.	USD
20 - ½	198 151 742 ^	84.00	198 151 752 ^	102.00
25 - ¾	198 151 743 ^	105.00	198 151 753 ^	130.00
32 - 1	198 151 744 ^	117.00	198 151 754 ^	147.00
40 - 1 ¼	198 151 745 ^	141.00	198 151 755 ^	176.00
50 - 1 ½	198 151 746 ^	173.00	198 151 756 ^	217.00
63 - 2	198 151 747 ^	212.00	198 151 757 ^	263.00



Without diaphragm

Spare Parts

Union End 355, 5-Series, Angle Seat

B

d - Size [mm]-[inch]	PVC				CPVC			
	Socket	USD	Threaded NPT	USD	Socket	USD	Threaded NPT	USD
20 - ½	721 602 006	3.00	721 602 656	5.00	723 602 006	3.00	153 203 620 *	12.00
25 - ¾	721 602 007	3.00	721 602 657	6.00	723 602 007	3.00	153 203 621 *	16.00
32 - 1	721 602 008	3.00	721 602 658	8.00	723 602 008	4.00	153 203 622 *	20.00
40 - 1 ¼	721 602 009	5.00	721 602 659	26.00	723 602 009	4.00	153 203 623 *	31.00
50 - 1 ½	721 602 010	5.00	721 602 660	22.00	723 602 010	9.00	153 203 624 *	26.00
63 - 2	721 602 011	8.00	721 602 661	22.00	723 602 011	13.00	153 203 625 *	26.00
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	157 203 603 *	25.00	728 608 506	12.00
25 - ¾	727 500 107	4.00	727 508 507	12.00	-	-	728 608 507	17.00
32 - 1	727 500 108	5.00	727 508 508	12.00	157 203 604 *	28.00	728 608 508	17.00
40 - 1 ¼	727 500 109	6.00	727 508 509	24.00	-	-	728 608 509	25.00
50 - 1 ½	727 500 110	7.00	727 508 510	24.00	157 203 606 *	31.00	728 608 510	26.00
63 - 2	727 500 111	8.00	727 508 511	26.00	157 203 607 *	35.00	728 608 511	36.00
d - Size [mm]-[inch]	PVDF				304 SS			
	Socket Fusion	USD	IR/Butt Fusion	USD	Threaded NPT	USD	Threaded NPT	USD
20 - ½	735 600 106	17.00	735 608 606	21.00	155 203 611 *	32.00	-	-
25 - ¾	735 600 107	20.00	735 608 607	24.00	-	-	150 481 025	43.00
32 - 1	735 600 108	23.00	735 608 608	31.00	155 203 612 *	52.00	150 481 032	50.00
40 - 1 ¼	735 600 109	32.00	735 608 609	36.00	-	-	150 481 040	97.00
50 - 1 ½	735 600 110	36.00	735 608 610	41.00	155 203 614 *	75.00	150 481 050	119.00
63 - 2	735 600 111	50.00	735 608 611	60.00	155 203 615 *	93.00	150 481 063	170.00



Union Nut 355, 5-Series, Angle Seat

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	21.00	735 690 406	28.00
25 - ¾	721 890 007	4.00	723 690 007	6.00	727 890 407	20.00	735 690 407	35.00
32 - 1	721 890 008	5.00	723 690 008	8.00	727 890 408	25.00	735 690 408	45.00
40 - 1 ¼	721 890 009	6.00	723 690 009	9.00	727 890 409	31.00	735 690 409	64.00
50 - 1 ½	721 890 010	8.00	723 690 010	13.00	727 890 410	50.00	735 690 410	95.00
63 - 2	721 890 011	11.00	723 690 011	18.00	727 890 411	78.00	735 690 411	149.00

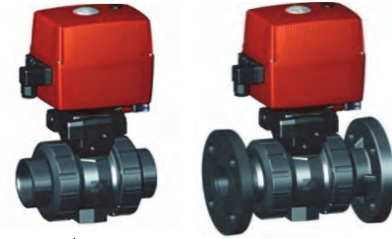
Union O-ring 355, 5-Series, Angle Seat

B

d - Size [mm]-[inch]	EPDM	USD	FKM	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	6.00	749 410 008	7.00
40 - 1 ¼	748 410 009	6.00	749 410 009	17.00
50 - 1 ½	748 410 010	6.00	749 410 010	19.00
63 - 2	748 410 011	8.00	749 410 011	20.00



Type 182 Electrically Actuated Ball Valve



PVC

Size [inch]	Socket (¾" - 2" Socket/Threaded NPT)							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
¾	199 182 002	1,027.00	199 182 012	1,036.00	199 182 022	1,027.00	199 182 032	1,036.00
½	199 182 003	1,028.00	199 182 013	1,037.00	199 182 023	1,028.00	199 182 033	1,037.00
¾	199 182 004	1,039.00	199 182 014	1,052.00	199 182 024	1,039.00	199 182 034	1,052.00
1	199 182 005	1,059.00	199 182 015	1,072.00	199 182 025	1,059.00	199 182 035	1,072.00
1 ¼	199 182 006	1,076.00	199 182 016	1,096.00	199 182 026	1,076.00	199 182 036	1,096.00
1 ½	199 182 007	1,106.00	199 182 017	1,128.00	199 182 027	1,106.00	199 182 037	1,128.00
2	199 182 008	1,141.00	199 182 018	1,176.00	199 182 028	1,140.00	199 182 038	1,176.00
2 ½	199 182 009	1,843.00	199 182 019	1,863.00	199 182 029	1,808.00	199 182 039	1,863.00
3	199 182 010	1,909.00	199 182 020	1,942.00	199 182 030	1,873.00	199 182 040	1,956.00
4	199 182 011	1,987.00	199 182 021	2,029.00	199 182 031	1,942.00	199 182 041	2,029.00

Size [inch]	ANSI Flanged							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	150 182 083	^ 1,108.00	150 182 093	^ 1,115.00	150 182 103	^ 1,108.00	150 182 113	^ 1,115.00
¾	150 182 084	^ 1,115.00	150 182 094	^ 1,130.00	150 182 104	^ 1,115.00	150 182 114	^ 1,130.00
1	150 182 085	^ 1,140.00	150 182 095	^ 1,159.00	150 182 105	^ 1,140.00	150 182 115	^ 1,159.00
1 ¼	150 182 086	^ 1,184.00	150 182 096	^ 1,209.00	150 182 106	^ 1,184.00	150 182 116	^ 1,209.00
1 ½	150 182 087	^ 1,201.00	150 182 097	^ 1,222.00	150 182 107	^ 1,201.00	150 182 117	^ 1,222.00
2	150 182 088	^ 1,210.00	150 182 098	^ 1,240.00	150 182 108	^ 1,210.00	150 182 118	^ 1,240.00
2 ½	150 182 089	^ 1,935.00	150 182 099	^ 1,956.00	150 182 109	^ 1,935.00	150 182 119	^ 1,956.00
3	150 182 090	^ 2,004.00	150 182 100	^ 2,039.00	150 182 110	^ 2,004.00	150 182 120	^ 2,039.00
4	150 182 091	^ 2,087.00	150 182 101	^ 2,130.00	150 182 111	^ 2,087.00	150 182 121	^ 2,130.00

CPVC

Size [inch]	Socket (¾" - 2" Socket/Threaded NPT)							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
¾	199 182 402	1,052.00	199 182 412	1,062.00	199 182 422	1,052.00	199 182 432	1,062.00
½	199 182 403	1,066.00	199 182 413	1,072.00	199 182 423	1,066.00	199 182 433	1,072.00
¾	199 182 404	1,083.00	199 182 414	1,099.00	199 182 424	1,083.00	199 182 434	1,099.00
1	199 182 405	1,104.00	199 182 415	1,134.00	199 182 425	1,104.00	199 182 435	1,134.00
1 ¼	199 182 406	1,165.00	199 182 416	1,180.00	199 182 426	1,165.00	199 182 436	1,180.00
1 ½	199 182 407	1,206.00	199 182 417	1,249.00	199 182 427	1,206.00	199 182 437	1,249.00
2	199 182 408	1,261.00	199 182 418	1,314.00	199 182 428	1,261.00	199 182 438	1,314.00
2 ½	199 182 409	2,029.00	199 182 419	2,117.00	199 182 429	2,070.00	199 182 439	2,117.00
3	199 182 410	2,117.00	199 182 420	2,225.00	199 182 430	2,182.00	199 182 440	2,280.00
4	199 182 411	2,257.00	199 182 421	2,362.00	199 182 431	2,280.00	199 182 441	2,445.00

Type 182 Electrically Actuated Ball Valve



ANSI Flanged



Socket Fusion



IR/Butt Fusion

CPVC

C

Size [inch]	ANSI Flanged							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	150 182 483	^ 1,130.00	150 182 493	^ 1,145.00	150 182 503	^ 1,130.00	150 182 513	^ 1,145.00
¾	150 182 484	^ 1,142.00	150 182 494	^ 1,159.00	150 182 504	^ 1,142.00	150 182 514	^ 1,159.00
1	150 182 485	^ 1,180.00	150 182 495	^ 1,201.00	150 182 505	^ 1,180.00	150 182 515	^ 1,201.00
1 ¼	150 182 486	^ 1,240.00	150 182 496	^ 1,259.00	150 182 506	^ 1,240.00	150 182 516	^ 1,259.00
1 ½	150 182 487	^ 1,259.00	150 182 497	^ 1,271.00	150 182 507	^ 1,259.00	150 182 517	^ 1,271.00
2	150 182 488	^ 1,358.00	150 182 498	^ 1,394.00	150 182 508	^ 1,358.00	150 182 518	^ 1,394.00
2 ½	150 182 489	^ 2,167.00	150 182 499	^ 2,225.00	150 182 509	^ 2,167.00	150 182 519	^ 2,225.00
3	150 182 490	^ 2,280.00	150 182 500	^ 2,362.00	150 182 510	^ 2,280.00	150 182 520	^ 2,362.00
4	150 182 491	^ 2,401.00	150 182 501	^ 2,491.00	150 182 511	^ 2,401.00	150 182 521	^ 2,491.00

Type 180 Electrically Actuated Ball Valve

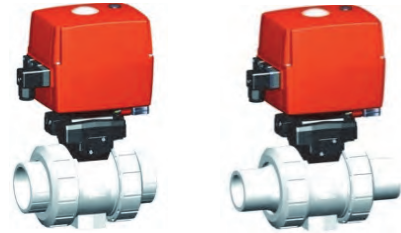
PROGEF® Standard PP

C

d [mm]	Socket Fusion							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 180 002	1,045.00	199 180 012	1,062.00	199 180 042	1,045.00	199 180 052	1,062.00
20	199 180 323	1,152.00	150 180 333	1,170.00	199 180 363	1,152.00	199 180 373	1,170.00
25	199 180 324	1,172.00	150 180 334	1,188.00	199 180 364	1,172.00	199 180 374	1,188.00
32	199 180 325	1,196.00	150 180 335	1,212.00	199 180 365	1,196.00	199 180 375	1,212.00
40	199 180 006	1,115.00	199 180 016	1,142.00	199 180 046	1,115.00	199 180 056	1,142.00
50	199 180 007	1,154.00	199 180 017	1,176.00	199 180 047	1,154.00	199 180 057	1,176.00
63	199 180 008	1,196.00	199 180 018	1,250.00	199 180 048	1,196.00	199 180 058	1,250.00
75	199 180 009	2,117.00	199 180 019	2,225.00	199 180 049	1,761.00	199 180 059	2,225.00
90	199 180 010	2,232.00	199 180 020	2,362.00	199 180 050	1,857.00	199 180 060	2,362.00
110	199 180 011	2,362.00	199 180 021	2,525.00	199 180 051	1,973.00	199 180 061	2,525.00

d [mm]	IR/Butt Fusion							
	100-230 V AC				24 V AC/DC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	199 180 323	1,152.00	150 180 333	1,170.00	199 180 363	1,152.00	199 180 373	1,170.00
25	199 180 324	1,172.00	150 180 334	1,188.00	199 180 364	1,172.00	199 180 374	1,188.00
32	199 180 325	1,196.00	150 180 335	1,212.00	199 180 365	1,196.00	199 180 375	1,212.00
40	199 180 326	1,228.00	150 180 336	1,256.00	199 180 366	1,228.00	199 180 376	1,256.00
50	199 180 327	1,271.00	150 180 337	1,294.00	199 180 367	1,271.00	199 180 377	1,294.00
63	199 180 328	1,315.00	150 180 338	1,376.00	199 180 368	1,315.00	199 180 378	1,376.00
75	199 180 329	2,327.00	150 180 339	2,448.00	199 180 369	1,935.00	199 180 379	2,448.00
90	199 180 330	2,455.00	150 180 340	2,599.00	199 180 370	2,042.00	199 180 380	2,599.00
110	199 180 331	2,599.00	150 180 341	2,777.00	199 180 371	2,169.00	199 180 381	2,777.00

Type 181 Electrically Actuated Ball Valve



Socket Fusion

IR/Butt Fusion

C

SYGEF® Standard PVDF

d [mm]	Socket Fusion				IR/Butt Fusion			
	100-230 V AC		24 V AC/DC		100-230 V AC		24 V AC/DC	
	FKM	USD	FKM	USD	FKM	USD	FKM	USD
16	199 181 012	1,223.00	150 181 052	1,223.00	-	-	-	-
20	199 181 013	1,236.00	150 181 053	1,236.00	199 181 113	1,236.00	150 181 153	1,236.00
25	199 181 014	1,288.00	150 181 054	1,288.00	199 181 114	1,288.00	150 181 154	1,288.00
32	199 181 015	1,364.00	150 181 055	1,364.00	199 181 115	1,364.00	150 181 155	1,364.00
40	199 181 016	1,467.00	150 181 056	1,467.00	199 181 116	1,467.00	150 181 156	1,467.00
50	199 181 017	1,665.00	150 181 057	1,665.00	199 181 117	1,665.00	150 181 157	1,665.00
63	199 181 018	1,909.00	150 181 058	1,909.00	199 181 118	1,909.00	150 181 158	1,909.00
75	199 181 019	3,852.00	150 181 059	3,852.00	199 181 119	3,852.00	150 181 159	3,852.00
90	199 181 020	4,623.00	150 181 060	4,623.00	199 181 120	4,623.00	150 181 160	4,623.00
110	199 181 021	5,318.00	150 181 061	5,318.00	199 181 121	5,318.00	150 181 161	5,318.00

Type 127 Electrically Actuated Ball Valve

PVC

C

Size [inch]	Socket/Threaded NPT				ANSI Flanged			
	100-230 V AC				100-230 V AC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 127 202	506.00	199 127 212	516.00	-	-	-	-
1/2	199 127 203	509.00	199 127 213	516.00	199 127 283 ^	569.00	199 127 293 ^	576.00
3/4	199 127 204	516.00	199 127 214	523.00	199 127 284 ^	576.00	199 127 294 ^	587.00
1	199 127 205	523.00	199 127 215	534.00	199 127 285 ^	587.00	199 127 295 ^	594.00
1 1/4	199 127 206	539.00	199 127 216	550.00	199 127 286 ^	620.00	199 127 296 ^	630.00
1 1/2	199 127 207	546.00	199 127 217	567.00	199 127 287 ^	624.00	199 127 297 ^	639.00
2	199 127 208	573.00	199 127 218	596.00	199 127 288 ^	649.00	199 127 298 ^	673.00

CPVC

C

Size [inch]	Socket/Threaded NPT			
	100-230 V AC			
	EPDM	USD	FKM	USD
3/8	199 127 302	526.00	199 127 312	531.00
1/2	199 127 303	527.00	199 127 313	534.00
3/4	199 127 304	538.00	199 127 314	546.00
1	199 127 305	553.00	199 127 315	563.00
1 1/4	199 127 306	573.00	199 127 316	590.00
1 1/2	199 127 307	592.00	199 127 317	613.00
2	199 127 308	619.00	199 127 318	654.00



Socket/Threaded



ANSI Flanged

If desired configuration is not shown, alternative PVC and CPVC Type 127 valves available upon request

Type 104 Electrically Actuated Ball Valve



C

PVC

Size [inch]	Socket/Threaded NPT							
	110 V AC				220 V AC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	150 104 403	294.00	150 104 413	297.00	150 104 203 ^	294.00	150 104 213 ^	297.00
¾	150 104 404	297.00	150 104 414	301.00	150 104 204 ^	297.00	150 104 214 ^	301.00
1	150 104 405	301.00	150 104 415	307.00	150 104 205 ^	301.00	150 104 215 ^	307.00
1 ¼	150 104 406	313.00	150 104 416	317.00	150 104 206 ^	313.00	150 104 216 ^	317.00
1 ½	150 104 407	316.00	150 104 417	327.00	150 104 207 ^	316.00	150 104 217 ^	327.00
2	150 104 408	331.00	150 104 418	346.00	150 104 208 ^	331.00	150 104 218 ^	346.00
Size [inch]	24 V DC							
	EPDM	USD	FKM	USD				
½	150 104 223	294.00	150 104 233	297.00				
¾	150 104 224	297.00	150 104 234	301.00				
1	150 104 225	301.00	150 104 235	307.00				
1 ¼	150 104 226	313.00	150 104 236	317.00				
1 ½	150 104 227	316.00	150 104 237	327.00				
2	150 104 228	331.00	150 104 238	346.00				

CPVC

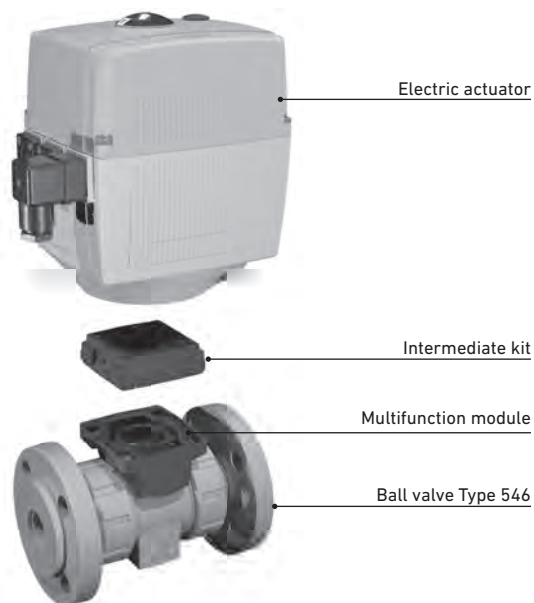
C

Size [inch]	Socket/Threaded NPT							
	110 V AC				220 V AC			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	150 104 503	304.00	150 104 513	307.00	150 104 303	304.00	150 104 313	307.00
¾	150 104 504	308.00	150 104 514	316.00	150 104 304	308.00	150 104 314	316.00
1	150 104 505	318.00	150 104 515	324.00	150 104 305	318.00	150 104 315	324.00
1 ¼	150 104 506	331.00	150 104 516	339.00	150 104 306	331.00	150 104 316	339.00
1 ½	150 104 507	342.00	150 104 517	352.00	150 104 307	342.00	150 104 317	352.00
2	150 104 508	355.00	150 104 518	379.00	150 104 308	355.00	150 104 318	379.00
Size [inch]	24 V DC							
	EPDM	USD	FKM	USD				
½	150 104 323	304.00	150 104 333	307.00				
¾	150 104 324	308.00	150 104 334	316.00				
1	150 104 325	318.00	150 104 335	324.00				
1 ¼	150 104 326	331.00	150 104 336	339.00				
1 ½	150 104 327	342.00	150 104 337	352.00				
2	150 104 328	355.00	150 104 338	379.00				

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 **199127205** (1" Type 127 Ball Valve PVC/EPDM) assembled with **199190310** (Fail-safe battery backup) should be ordered:

- PO item 1: **S199127205** 1" Type 127 Ball Valve PVC/EPDM assembled with fail-safe 199190310
- PO item 2: **199190310** Fail-safe battery backup



Optional Actuator Accessories

Type 127

- Fail-safe battery backup
- External fail-safe board

Type 180-182

- Positioner board
- Monitoring board
- Fail-safe battery backup
- External fail-safe board
- Profibus DP board

Electric Actuators

Part number	Description
198153180	EA15 Electric Actuator 100–230VAC
198153181	EA15 Electric Actuator 24VAC/DC
198153182	EA25 Electric Actuator 100–230VAC
198153183	EA25 Electric Actuator 24VAC/DC
198153184	EA45 Electric Actuator 100–230VAC
198153185	EA45 Electric Actuator 24VAC/DC
198153186	EA120 Electric Actuator 100–230VAC
198153187	EA120 Electric Actuator 24VAC/DC

Components by Valve Type

Size d [inch - mm]	Type 180-182			Type 127		
	Multifunction Module	Intermediate Kit	Actuator	Multifunction Module	Intermediate Kit	Actuator
3/8 - 16	167482680	198150556	EA25	167482680	198150556	EA15
1/2 - 20	167482680	198150556	EA25	167482680	198150556	EA15
3/4 - 25	167482681	198150557	EA25	167482681	198150557	EA15
1 - 32	167482681	198150557	EA25	167482681	198150557	EA15
1 1/4 - 40	167482682	198150558	EA25	167482682	198150558	EA15
1 1/2 - 50	167482682	198150558	EA25	167482682	198150558	EA15
2 - 63	167482683	198150559	EA25	167482683	198150559	EA15
2 1/2 - 75	167482684	198000601	EA45	NA	NA	NA
3 - 90	167482684	198000601	EA120	NA	NA	NA
4 - 110	167482685	198000602	EA120	NA	NA	NA

NA = Not Applicable

Accessories Actuated Ball Valves



C

Multifunction Modules

d - d [mm]	Size [inch]	Mechanical Limit Switches			
		Ag Ni	USD	Au	USD
16 - 20	3/8 - 1/2	167 482 626	64.00	167 482 635	64.00
25 - 32	3/4 - 1	167 482 627	67.00	167 482 636	67.00
40 - 50	1 1/4 - 1 1/2	167 482 628	82.00	167 482 637	82.00
63	2	167 482 629	87.00	167 482 638	87.00
75 - 90	2 1/2 - 3	167 482 630	118.00	167 482 639	118.00
110	4	167 482 631	136.00	167 482 640	136.00

d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	220.00	167 482 653	220.00
25 - 32	3/4 - 1	167 482 663	227.00	167 482 654	227.00
40 - 50	1 1/4 - 1 1/2	167 482 664	242.00	167 482 655	242.00
63	2	167 482 665	245.00	167 482 656	245.00
75 - 90	2 1/2 - 3	167 482 666	282.00	167 482 657	282.00
110	4	167 482 667	298.00	167 482 658	298.00

Type 127 and Type 180-182 Actuated Ball Valves offer open/close feedback switches standard.

Actuator Accessories

C

Type 127		
Description	Part No.	USD
Internal Fail Safe Return	199 190 610	482.00
External Fail Safe Return	199 190 611	454.00

Type 180-182		
Description	Part No.	USD
Internal Fail Safe Return	199 190 601	482.00
Monitor Board	199 190 602	356.00
Positioner Board	199 190 603	894.00
External Fail Safe Return	199 190 604	454.00
Profibus DP Board	199 190 605	1,148.00

Accessories Actuated Ball Valves



Local Control Box

Size	Voltage	Lights	Type	Part No.	USD
All	110V AC	Yes	LCB 201	150 300 103	570.00
All	24V AC/DC	Yes	LCB 202	150 300 104	535.00

Local Control Box Accessories

Description	Part No.	USD
5 ft. Lead - 4 conduit connection w/ shield	150 300 050	31.00

Spare Parts Actuated Ball Valves



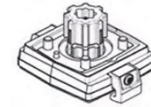
Electric Actuator

Voltage	EA 15		EA 25		EA 45		EA 120	
	Part No.	USD	Part No.	USD	Part No.	USD	Part No.	USD
100-230 V	198 153 180 *	407.00	198 153 182	834.00	198 153 184	1,102.00	198 153 186	1,303.00
24 V	198 153 181 *	407.00	198 153 183	834.00	198 153 185	1,102.00	198 153 187	1,303.00

Standard EA25-120 actuators IP67 rated

Intermediate Kit

d - d [mm]	Size [inch]	Part No.	USD
16 - 20	3/8 - 1/2	198 150 556	28.00
25 - 30	3/4 - 1	198 150 557	28.00
40 - 50	1 1/4 - 1 1/2	198 150 558	28.00
63	2	198 150 559	28.00

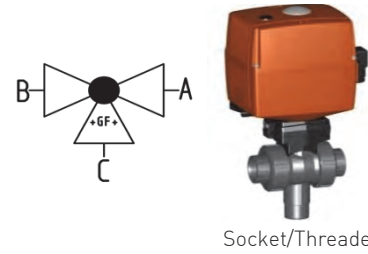


Multifunction Modules

d - d [mm]	Size [inch]	Without Limit Switches	
		Part No.	USD
16 - 20	3/8 - 1/2	167 482 680	5.00
25 - 32	3/4 - 1	167 482 681	5.00
40 - 50	1 1/4 - 1 1/2	167 482 682	8.00
63	2	167 482 683	9.00
75 - 90	2 1/2 - 3	167 482 684	33.00
110	4	167 482 685	45.00



Type 170 Electrically Actuated 3-Way Vertical Ball Valve

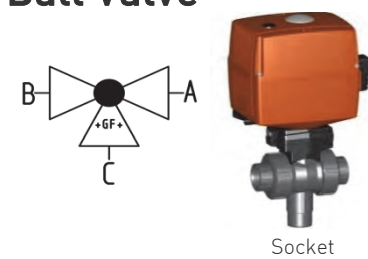


PVC

Size [inch]	100-230 V AC							
	L-port							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	150 170 572	1,126.00	150 170 582	1,136.00	150 170 692	1,126.00	150 170 702	1,136.00
1/2	150 170 573	1,128.00	150 170 583	1,139.00	150 170 693	1,128.00	150 170 703	1,139.00
3/4	150 170 574	1,143.00	150 170 584	1,154.00	150 170 694	1,143.00	150 170 704	1,154.00
1	150 170 575	1,170.00	150 170 585	1,183.00	150 170 695	1,170.00	150 170 705	1,183.00
1 1/4	150 170 576	1,189.00	150 170 586	1,208.00	150 170 696	1,189.00	150 170 706	1,208.00
1 1/2	150 170 577	1,266.00	150 170 587	1,290.00	150 170 697	1,266.00	150 170 707	1,290.00
2	150 170 578	1,309.00	150 170 588	1,347.00	150 170 698	1,309.00	150 170 708	1,347.00

Size [inch]	Diverter							
	Socket				Threaded NPT			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	150 170 000	1,126.00	150 170 007	1,136.00	150 170 014	1,126.00	150 170 021	1,136.00
1/2	150 170 001	1,128.00	150 170 008	1,139.00	150 170 015	1,128.00	150 170 022	1,139.00
3/4	150 170 002	1,143.00	150 170 009	1,154.00	150 170 016	1,143.00	150 170 023	1,154.00
1	150 170 003	1,170.00	150 170 010	1,183.00	150 170 017	1,170.00	150 170 024	1,183.00
1 1/4	150 170 004	1,189.00	150 170 011	1,208.00	150 170 018	1,189.00	150 170 025	1,208.00
1 1/2	150 170 005	1,266.00	150 170 012	1,290.00	150 170 019	1,266.00	150 170 026	1,290.00
2	150 170 006	1,309.00	150 170 013	1,347.00	150 170 020	1,309.00	150 170 027	1,347.00

Type 128 Electrically Actuated 3-Way Vertical Ball Valve

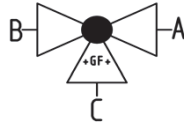
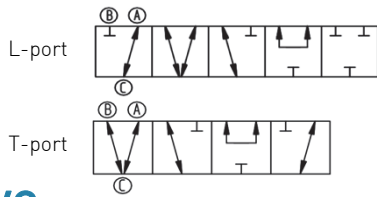


PVC

Size [inch]	100-230 V AC							
	Socket							
	L-port				Diverter			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	150 128 572	670.00	150 128 582	677.00	150 128 000	731.00	150 128 007	740.00
1/2	150 128 573	670.00	150 128 583	677.00	150 128 001	731.00	150 128 008	740.00
3/4	150 128 574	683.00	150 128 584	698.00	150 128 002	746.00	150 128 009	761.00
1	150 128 575	699.00	150 128 585	716.00	150 128 003	762.00	150 128 010	781.00
1 1/4	150 128 576	705.00	150 128 586	812.00	150 128 004	768.00	150 128 011	882.00
1 1/2	150 128 577	782.00	150 128 587	838.00	150 128 005	849.00	150 128 012	909.00
2	150 128 578	860.00	150 128 588	914.00	150 128 006	933.00	150 128 013	987.00

Type 170 assembled with EA 25 - Type 128 assembled with EA 15

Type 167 Electrically Actuated 3-Way Horizontal Ball Valve



PVC Socket/Threaded



CPVC Socket/Threaded

PVC

C

		100-230 V AC							
		L-port							
Size [inch]	EPDM	Socket				Threaded NPT			
		USD	FKM	USD	EPDM	USD	FKM	USD	
3/8	199 167 382	1,126.00	199 167 392	1,136.00	150 167 362	1,126.00	150 167 372	1,136.00	
1/2	199 167 383	1,128.00	199 167 393	1,139.00	150 167 363	1,128.00	150 167 373	1,139.00	
3/4	199 167 384	1,143.00	199 167 394	1,154.00	150 167 364	1,143.00	150 167 374	1,154.00	
1	199 167 385	1,170.00	199 167 395	1,183.00	150 167 365	1,170.00	150 167 375	1,183.00	
1 1/4	199 167 386	1,189.00	199 167 396	1,208.00	150 167 366	1,189.00	150 167 376	1,208.00	
1 1/2	199 167 387	1,266.00	199 167 397	1,290.00	150 167 367	1,266.00	150 167 377	1,290.00	
2	199 167 388	1,309.00	199 167 398	1,347.00	150 167 368	1,309.00	150 167 378	1,347.00	

		T-port							
Size [inch]	EPDM	Socket				Threaded NPT			
		USD	FKM	USD	EPDM	USD	FKM	USD	
3/8	199 167 422	1,126.00	199 167 432	1,136.00	150 167 402	1,126.00	150 167 412	1,136.00	
1/2	199 167 423	1,128.00	199 167 433	1,139.00	150 167 403	1,128.00	150 167 413	1,139.00	
3/4	199 167 424	1,143.00	199 167 434	1,154.00	150 167 404	1,143.00	150 167 414	1,154.00	
1	199 167 425	1,170.00	199 167 435	1,183.00	150 167 405	1,170.00	150 167 415	1,183.00	
1 1/4	199 167 426	1,189.00	199 167 436	1,208.00	150 167 406	1,189.00	150 167 416	1,208.00	
1 1/2	199 167 427	1,266.00	199 167 437	1,290.00	150 167 407	1,266.00	150 167 417	1,290.00	
2	199 167 428	1,309.00	199 167 438	1,347.00	150 167 408	1,309.00	150 167 418	1,347.00	

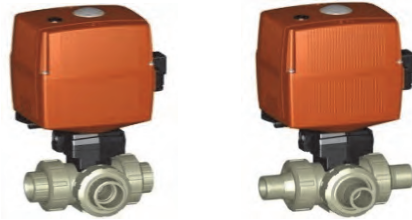
CPVC

C

		100-230 V AC							
		L-port							
Size [inch]	EPDM	Socket				Threaded NPT			
		USD	FKM	USD	EPDM	USD	FKM	USD	
3/8	150 167 462	1,132.00	150 167 472	1,166.00	150 167 442	1,132.00	150 167 452	1,166.00	
1/2	150 167 463	1,132.00	150 167 473	1,166.00	150 167 443	1,132.00	150 167 453	1,166.00	
3/4	150 167 464	1,151.00	150 167 474	1,186.00	150 167 444	1,151.00	150 167 454	1,186.00	
1	150 167 465	1,201.00	150 167 475	1,237.00	150 167 445	1,201.00	150 167 455	1,237.00	
1 1/4	150 167 466	1,217.00	150 167 476	1,271.00	150 167 446	1,217.00	150 167 456	1,271.00	
1 1/2	150 167 467	1,376.00	150 167 477	1,411.00	150 167 447	1,376.00	150 167 457	1,411.00	
2	150 167 468	1,508.00	150 167 478	1,542.00	150 167 448	1,508.00	150 167 458	1,542.00	

		T-port							
Size [inch]	EPDM	Socket				Threaded NPT			
		USD	FKM	USD	EPDM	USD	FKM	USD	
3/8	150 167 502	1,132.00	150 167 512	1,166.00	150 167 482	1,132.00	150 167 492	1,166.00	
1/2	150 167 503	1,132.00	150 167 513	1,166.00	150 167 483	1,132.00	150 167 493	1,166.00	
3/4	150 167 504	1,151.00	150 167 514	1,186.00	150 167 484	1,151.00	150 167 494	1,186.00	
1	150 167 505	1,201.00	150 167 515	1,237.00	150 167 485	1,201.00	150 167 495	1,237.00	
1 1/4	150 167 506	1,217.00	150 167 516	1,271.00	150 167 486	1,217.00	150 167 496	1,271.00	
1 1/2	150 167 507	1,376.00	150 167 517	1,411.00	150 167 487	1,376.00	150 167 497	1,411.00	
2	150 167 508	1,508.00	150 167 518	1,542.00	150 167 488	1,508.00	150 167 498	1,542.00	

Type 168 Electrically Actuated 3-Way Horizontal Ball Valve



Socket Fusion/Threaded

IR/Butt Fusion

PROGEF® Standard PP

C

100-230 V AC								
L-port								
d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 168 022	1,186.00	199 168 032	1,216.00	-	-	-	-
20	199 168 023	1,186.00	199 168 033	1,216.00	199 168 083	1,186.00	199 168 093	1,216.00
25	199 168 024	1,207.00	199 168 034	1,258.00	199 168 084	1,207.00	199 168 094	1,258.00
32	199 168 025	1,260.00	199 168 035	1,328.00	199 168 085	1,260.00	199 168 095	1,328.00
40	199 168 026	1,329.00	199 168 036	1,469.00	199 168 086	1,329.00	199 168 096	1,469.00
50	199 168 027	1,440.00	199 168 037	1,605.00	199 168 087	1,440.00	199 168 097	1,605.00
63	199 168 028	1,499.00	199 168 038	1,790.00	199 168 088	1,499.00	199 168 098	1,790.00
Size [inch]	Threaded NPT							
	EPDM	USD	FKM	USD				
3/8	150 168 322	1,186.00	150 168 332	1,216.00				
1/2	150 168 323	1,186.00	150 168 333	1,216.00				
3/4	150 168 324	1,207.00	150 168 334	1,258.00				
1	150 168 325	1,260.00	150 168 335	1,328.00				
1 1/4	150 168 326	1,329.00	150 168 336	1,469.00				
1 1/2	150 168 327	1,440.00	150 168 337	1,605.00				
2	150 168 328	1,499.00	150 168 338	1,790.00				
100-230 V AC								
T-port								
d [mm]	Socket Fusion				IR/Butt Fusion			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 168 062	1,186.00	199 168 072	1,216.00	-	-	-	-
20	199 168 063	1,186.00	199 168 073	1,216.00	199 168 103	1,186.00	199 168 113	1,216.00
25	199 168 064	1,207.00	199 168 074	1,258.00	199 168 104	1,207.00	199 168 114	1,258.00
32	199 168 065	1,260.00	199 168 075	1,328.00	199 168 105	1,260.00	199 168 115	1,328.00
40	199 168 066	1,329.00	199 168 076	1,469.00	199 168 106	1,329.00	199 168 116	1,469.00
50	199 168 067	1,440.00	199 168 077	1,605.00	199 168 107	1,440.00	199 168 117	1,605.00
63	199 168 068	1,499.00	199 168 078	1,790.00	199 168 108	1,499.00	199 168 118	1,790.00
Size [inch]	Threaded NPT							
	EPDM	USD	FKM	USD				
3/8	150 168 342	1,186.00	150 168 352	1,216.00				
1/2	150 168 343	1,186.00	150 168 353	1,216.00				
3/4	150 168 344	1,207.00	150 168 354	1,258.00				
1	150 168 345	1,260.00	150 168 355	1,328.00				
1 1/4	150 168 346	1,329.00	150 168 356	1,469.00				
1 1/2	150 168 347	1,440.00	150 168 357	1,605.00				
2	150 168 348	1,499.00	150 168 358	1,790.00				

Type 169 Electrically Actuated 3-Way Horizontal Ball Valve



Socket Fusion/Threaded

IR/Butt Fusion

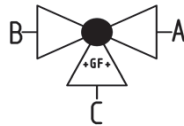
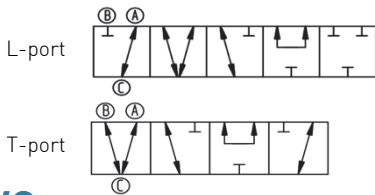
C

SYGEF® Standard PVDF

d - Size [mm]-[Inch]		100-230 V AC							
		L-port							
		Socket Fusion		IR/Butt Fusion		Threaded NPT			
		FKM	USD	FKM	USD	FKM	USD		
16 - 3/8	199 169 092	^	1,459.00	-	-	199 169 242	^	1,459.00	
20 - 1/2	199 169 093	^	1,459.00	150 169 053	^	1,554.00	199 169 243	^	1,459.00
25 - 3/4	199 169 094	^	1,565.00	150 169 054	^	1,662.00	199 169 244	^	1,565.00
32 - 1	199 169 095	^	1,717.00	150 169 055	^	1,815.00	199 169 245	^	1,717.00
40 - 1 1/4	199 169 096	^	1,925.00	150 169 056	^	2,039.00	199 169 246	^	1,925.00
50 - 1 1/2	199 169 097	^	2,159.00	150 169 057	^	2,280.00	199 169 247	^	2,159.00
63 - 2	199 169 098	^	2,594.00	150 169 058	^	2,690.00	199 169 248	^	2,594.00

d [mm]		100-230 V AC							
		T-port							
		Socket Fusion		IR/Butt Fusion		Threaded NPT			
		FKM	USD	FKM	USD	FKM	USD		
16	199 169 112	^	1,459.00	-	-	199 169 252	^	1,459.00	
20	199 169 113	^	1,459.00	150 169 073	^	1,554.00	199 169 253	^	1,459.00
25	199 169 114	^	1,565.00	150 169 074	^	1,662.00	199 169 254	^	1,565.00
32	199 169 115	^	1,717.00	150 169 075	^	1,815.00	199 169 255	^	1,717.00
40	199 169 116	^	1,925.00	150 169 076	^	2,039.00	199 169 256	^	1,925.00
50	199 169 117	^	2,159.00	150 169 077	^	2,280.00	199 169 257	^	2,159.00
63	199 169 118	^	2,594.00	150 169 078	^	2,690.00	199 169 258	^	2,594.00

Type 125 Electrically Actuated 3-Way Horizontal Ball Valve



Socket

C

PVC

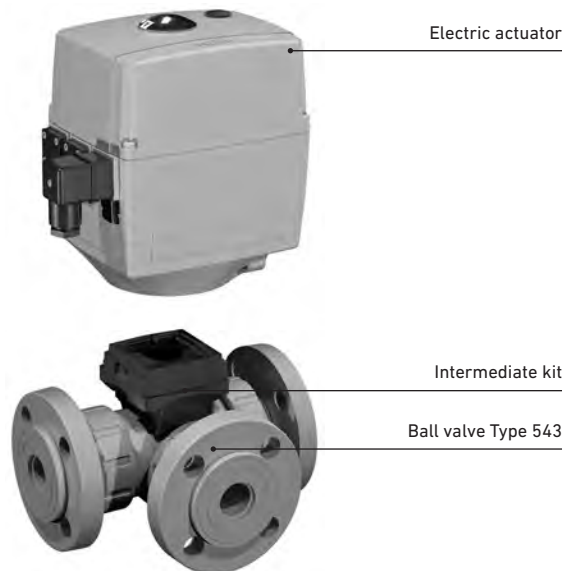
Size [inch]		100-230 V AC							
		Socket							
		L-port				T-port			
		EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	150 125 382	670.00		150 125 392	677.00	150 125 422	670.00	150 125 432	677.00
1/2	150 125 383	670.00		150 125 393	677.00	150 125 423	670.00	150 125 433	677.00
3/4	150 125 384	683.00		150 125 394	698.00	150 125 424	683.00	150 125 434	698.00
1	150 125 385	699.00		150 125 395	716.00	150 125 425	699.00	150 125 435	716.00
1 1/4	150 125 386	705.00		150 125 396	812.00	150 125 426	705.00	150 125 436	812.00
1 1/2	150 125 387	782.00		150 125 397	838.00	150 125 427	782.00	150 125 437	838.00
2	150 125 388	860.00		150 125 398	914.00	150 125 428	860.00	150 125 438	914.00

Type 167 assembled with EA 25 - Type 125 assembled with EA 15

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 **199167385** (1" Type 167 Ball Valve PVC/EPDM) assembled with **199190603** (EA25-250 Positioner Board) should be ordered:

- PO item 1: **S199167385** 1" Type 167 Ball Valve PVC/EPDM assembled with positioner 199190603
- PO item 2: **199190603** EA25-250 Positioner Board



Optional Actuator Accessories

Type 125-128

- Fail-safe battery backup
- Fail-safe return board

Type 167-170

- Positioner board
- Monitoring board
- Fail-safe battery backup
- External fail-safe board
- Profibus DP board

Electric Actuators

Part number	Description
198153180	EA15 Electric Actuator 100-230VAC
198153181	EA15 Electric Actuator 24VAC/DC
198153182	EA25 Electric Actuator 100-230VAC
198153183	EA25 Electric Actuator 24VAC/DC

Components by Valve Type

Size d [inch - mm]	Type 170		Type 167-169		Type 125		Type 128	
	Intermediate Kit	Actuator	Intermediate Kit	Actuator	Intermediate Kit	Actuator	Intermediate Kit	Actuator
3/8 - 16	167484945	EA25	167484941	EA25	167484941	EA15	167484945	EA15
1/2 - 20	167484945	EA25	167484941	EA25	167484941	EA15	167484945	EA15
3/4 - 25	167484946	EA25	167484942	EA25	167484942	EA15	167484946	EA15
1 - 32	167484946	EA25	167484942	EA25	167484942	EA15	167484946	EA15
1 1/4 - 40	167484947	EA25	167484943	EA25	167484943	EA15	167484947	EA15
1 1/2 - 50	167484947	EA25	167484943	EA25	167484943	EA15	167484947	EA15
2 - 63	167484948	EA25	167484944	EA25	167484944	EA15	167484948	EA15

Accessories 3-Way Electrically Actuated Ball Valve

Actuator Accessories

C

Type 125-128		
Description	Part No.	USD
Internal Fail Safe Return	199 190 610	482.00
External Fail Safe Return	199 190 611	454.00
Type 167-170		
Description	Part No.	USD
Fail Safe Battery Backup	199 190 601	482.00
Monitor Board	199 190 602	356.00
Positioner Board	199 190 603	894.00
External Fail Safe Return	199 190 604	454.00
Profibus DP Board	199 190 605	1,148.00

Spare Parts 3-Way Electrically Actuated Ball Valve



Electric Actuator

C

Voltage	EA 15		EA 25	
	Part No.	USD	Part No.	USD
100-230 V	198 153 180 *	407.00	198 153 182	834.00
24 V	198 153 181 *	407.00	198 153 183	834.00

Standard actuators IP65 rated

Intermediate Kit

C

d [mm]	Size [inch]	Vertical		Horizontal	
		Part No.	USD	Part No.	USD
16 - 20	¾ - ½	167 484 945	127.00	167 484 941	127.00
25 - 32	¾ - 1	167 484 946	141.00	167 484 942	141.00
40 - 50	1 ¼ - 1 ½	167 484 947	152.00	167 484 943	152.00
63	2	167 484 948	169.00	167 484 944	169.00

Type 145 Electrically Actuated Wafer Butterfly Valve



PVC

C

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 042	1,365.00	199 145 062	1,456.00	199 145 002	2,015.00	199 145 022	2,107.00
75 - 2 ½	199 145 043	1,372.00	199 145 063	1,461.00	199 145 003	2,022.00	199 145 023	2,110.00
90 - 3	199 145 044	1,381.00	199 145 064	1,471.00	199 145 004	2,034.00	199 145 024	2,123.00
110 - 4	199 145 045	1,398.00	199 145 065	1,494.00	199 145 005	2,049.00	199 145 025	2,146.00
140 - 5	199 145 046	1,444.00	199 145 066	1,570.00	199 145 006	2,136.00	199 145 026	2,264.00
160 - 6	199 145 047	1,444.00	199 145 067	1,570.00	199 145 007	2,136.00	199 145 027	2,264.00
225 - 8	199 145 048	1,975.00	199 145 068	2,044.00	199 145 008	2,660.00	199 145 028	2,731.00
280 - 10	199 145 049	3,847.00	199 145 069	4,344.00	-	-	-	-
315 - 12	199 145 050	4,142.00	199 145 070	5,044.00	-	-	-	-

24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 122	1,365.00	199 145 142	1,456.00	199 145 082	2,015.00	150 145 102	2,107.00
75 - 2 ½	199 145 123	1,372.00	199 145 143	1,461.00	199 145 083	2,022.00	150 145 103	2,110.00
90 - 3	199 145 124	1,381.00	199 145 144	1,471.00	199 145 084	2,034.00	150 145 104	2,123.00
110 - 4	199 145 125	1,398.00	199 145 145	1,494.00	199 145 085	2,049.00	150 145 105	2,146.00
140 - 5	199 145 126	1,444.00	199 145 146	1,570.00	199 145 086	2,136.00	150 145 106	2,264.00
160 - 6	199 145 127	1,444.00	199 145 147	1,570.00	199 145 087	2,136.00	150 145 107	2,264.00
225 - 8	199 145 128	1,975.00	199 145 148	2,044.00	199 145 088	2,660.00	150 145 108	2,731.00
280 - 10	199 145 129	3,847.00	199 145 149	4,344.00	-	-	-	-
315 - 12	199 145 130	4,142.00	199 145 150	5,044.00	-	-	-	-

Type 145 Electrically Actuated Wafer Butterfly Valve



CPVC

C

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 202	1,517.00	199 145 222	1,567.00	199 145 162	2,167.00	150 145 182	2,216.00
75 - 2 ½	199 145 203	1,558.00	199 145 223	1,627.00	199 145 163	2,208.00	150 145 183	2,276.00
90 - 3	199 145 204	1,632.00	199 145 224	1,703.00	199 145 164	2,281.00	150 145 184	2,352.00
110 - 4	199 145 205	1,705.00	199 145 225	1,778.00	199 145 165	2,354.00	150 145 185	2,429.00
140 - 5	199 145 206	1,882.00	199 145 226	1,973.00	199 145 166	2,574.00	150 145 186	2,663.00
160 - 6	199 145 207	1,882.00	199 145 227	1,973.00	199 145 167	2,574.00	150 145 187	2,663.00
225 - 8	199 145 208	2,442.00	199 145 228	2,562.00	199 145 168	3,131.00	150 145 188	3,249.00
280 - 10	199 145 209	4,617.00	199 145 229	5,213.00	-	-	-	-
315 - 12	199 145 210	4,970.00	199 145 130	4,142.00	-	-	-	-

24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 282	1,517.00	150 145 302	1,567.00	199 145 242	2,167.00	150 145 262	2,216.00
75 - 2 ½	199 145 283	1,558.00	150 145 303	1,627.00	199 145 243	2,208.00	150 145 263	2,276.00
90 - 3	199 145 284	1,632.00	150 145 304	1,703.00	199 145 244	2,281.00	150 145 264	2,352.00
110 - 4	199 145 285	1,705.00	150 145 305	1,778.00	199 145 245	2,354.00	150 145 265	2,429.00
140 - 5	199 145 286	1,882.00	150 145 306	1,973.00	199 145 246	2,574.00	150 145 266	2,663.00
160 - 6	199 145 287	1,882.00	150 145 307	1,973.00	199 145 247	2,574.00	150 145 267	2,663.00
225 - 8	199 145 288	2,442.00	150 145 308	2,562.00	199 145 248	3,131.00	150 145 268	3,249.00
280 - 10	199 145 289	4,617.00	150 145 309	5,213.00	-	-	-	-
315 - 12	199 145 290	4,970.00	150 145 310	6,052.00	-	-	-	-

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

Type 145 Electrically Actuated Wafer Butterfly Valve



PROGEF® Standard PP

100-230 V AC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 362	1,456.00	150 145 382	1,531.00	199 145 322	2,107.00	150 145 342	2,212.00
75 - 2½	199 145 363	1,472.00	150 145 383	1,558.00	199 145 323	2,123.00	150 145 343	2,428.00
90 - 3	199 145 364	1,508.00	150 145 384	1,593.00	199 145 324	2,157.00	150 145 344	2,468.00
110 - 4	199 145 365	1,570.00	150 145 385	1,674.00	199 145 325	2,332.00	150 145 345	2,559.00
140 - 5	199 145 366	1,690.00	150 145 386	1,892.00	199 145 326	2,332.00	150 145 346	2,842.00
160 - 6	199 145 367	1,690.00	150 145 387	1,892.00	199 145 327	2,385.00	150 145 347	2,842.00
225 - 8	199 145 368	2,192.00	150 145 388	2,365.00	199 145 328	2,878.00	150 145 348	3,359.00
280 - 10	199 145 369	3,633.00	150 145 389	4,035.00	-	-	-	-
315 - 12	199 145 370	3,786.00	150 145 390	4,095.00	-	-	-	-

24 V AC/DC								
d - Size [mm]-[inch]	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 145 442	1,456.00	150 145 462	1,531.00	199 145 402	2,107.00	150 145 422	2,212.00
75 - 2½	199 145 443	1,558.00	150 145 463	1,558.00	199 145 403	2,123.00	150 145 423	2,428.00
90 - 3	199 145 444	1,593.00	150 145 464	1,593.00	199 145 404	2,157.00	150 145 424	2,468.00
110 - 4	199 145 445	1,674.00	150 145 465	1,674.00	199 145 405	2,222.00	150 145 425	2,559.00
140 - 5	199 145 446	1,892.00	150 145 466	1,892.00	199 145 406	2,385.00	150 145 426	2,842.00
160 - 6	199 145 447	1,892.00	150 145 467	1,892.00	199 145 407	2,385.00	150 145 427	2,842.00
225 - 8	199 145 448	2,365.00	150 145 468	2,365.00	199 145 408	2,878.00	150 145 428	3,359.00
280 - 10	199 145 449	4,035.00	150 145 469	4,035.00	-	-	-	-
315 - 12	199 145 450	4,095.00	150 145 470	4,095.00	-	-	-	-

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

Type 145 Electrically Actuated Wafer Butterfly Valve



SYGEF® Standard PVDF

100-230 V AC						
d - Size [mm]-[inch]	Without Manual Override				With Manual Override	
	FKM	USD	PTFE/FKM	USD	FKM	USD
63 - 2	150 145 582	1,925.00	150 145 642 ^	2,769.00	199 145 562	2,607.00
75 - 2 ½	150 145 583	2,081.00	150 145 643 ^	2,903.00	199 145 563	2,762.00
90 - 3	150 145 584	2,258.00	150 145 644 ^	3,039.00	199 145 564	2,939.00
110 - 4	150 145 585	2,445.00	150 145 645 ^	3,273.00	199 145 565	3,128.00
140 - 5	150 145 586	3,066.00	150 145 646 ^	4,426.00	199 145 566	3,794.00
160 - 6	150 145 587	3,066.00	150 145 647 ^	4,426.00	199 145 567	3,794.00
225 - 8	150 145 588	4,010.00	150 145 648 ^	5,411.00	199 145 568	4,732.00
280 - 10	150 145 589	6,051.00	150 145 649 ^	7,564.00	-	-
315 - 12	150 145 590	6,240.00	150 145 650 ^	8,463.00	-	-

24 V AC/DC						
d - Size [mm]-[inch]	Without Manual Override				With Manual Override	
	FKM	USD	PTFE/FKM	USD	FKM	USD
63 - 2	150 145 622	1,925.00	150 145 662 ^	2,769.00	150 145 602	2,607.00
75 - 2 ½	150 145 623	2,081.00	150 145 663 ^	2,903.00	150 145 603	2,762.00
90 - 3	150 145 624	2,258.00	150 145 664 ^	3,039.00	150 145 604	2,939.00
110 - 4	150 145 625	2,445.00	150 145 665 ^	3,273.00	150 145 605	3,128.00
140 - 5	150 145 626	3,066.00	150 145 666 ^	4,426.00	150 145 606	3,794.00
160 - 6	150 145 627	3,066.00	150 145 667 ^	4,426.00	150 145 607	3,794.00
225 - 8	150 145 628	4,010.00	150 145 668 ^	5,411.00	150 145 608	4,732.00
280 - 10	150 145 629	6,051.00	150 145 669 ^	7,564.00	-	-
315 - 12	150 145 630	6,772.00	150 145 670 ^	8,463.00	-	-

Type 147 Electrically Actuated Lug Butterfly Valve



Without MO

With MO

PVC

C

Size [inch]	100-230 V AC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	199 147 042	1,685.00	150 147 062	1,767.00	199 147 002	2,335.00	199 147 022	2,418.00
2½	199 147 043	1,702.00	150 147 063	1,786.00	199 147 003	2,353.00	199 147 023	2,435.00
3	199 147 044	1,724.00	150 147 064	1,784.00	199 147 004	2,353.00	199 147 024	2,436.00
4	199 147 045	2,052.00	150 147 065	2,172.00	199 147 005	2,702.00	199 147 025	2,826.00
5	199 147 046	2,267.00	150 147 066	2,454.00	199 147 006	2,959.00	199 147 026	3,147.00
6	199 147 047	2,267.00	150 147 067	2,454.00	199 147 007	2,959.00	199 147 027	3,147.00
8	199 147 048	3,046.00	150 147 068	3,261.00	199 147 008	3,731.00	199 147 028	3,949.00
10	199 147 049	4,522.00	150 147 069	4,712.00	-	-	-	-
12	199 147 050	4,817.00	150 147 070	5,464.00	-	-	-	-

Size [inch]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	150 147 122	1,685.00	150 147 142	1,767.00	150 147 082	2,335.00	150 147 102	2,418.00
2½	150 147 123	1,702.00	150 147 143	1,786.00	150 147 083	2,353.00	150 147 103	2,435.00
3	150 147 124	1,724.00	150 147 144	1,784.00	150 147 084	2,353.00	150 147 104	2,436.00
4	150 147 125	2,052.00	150 147 145	2,172.00	150 147 085	2,702.00	150 147 105	2,826.00
5	150 147 126	2,267.00	150 147 146	2,454.00	150 147 086	2,959.00	150 147 106	3,147.00
6	150 147 127	2,267.00	150 147 147	2,454.00	150 147 087	2,959.00	150 147 107	3,147.00
8	150 147 128	3,046.00	150 147 148	3,261.00	150 147 088	3,731.00	150 147 108	3,949.00
10	150 147 129	4,522.00	150 147 149	4,712.00	-	-	-	-
12	150 147 130	4,817.00	150 147 150	5,464.00	-	-	-	-

All Type 147 valves have ANSI bolt pattern.

Type 147 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	FKM	USD	EPDM	USD	FKM	USD
2	199 147 202	1,892.00	150 147 222	1,988.00	150 147 162	2,543.00	150 147 182	2,638.00
2½	199 147 203	1,923.00	150 147 223	2,040.00	150 147 163	2,573.00	150 147 183	2,690.00
3	199 147 204	1,959.00	150 147 224	2,032.00	150 147 164	2,609.00	150 147 184	2,681.00
4	199 147 205	2,466.00	150 147 225	2,643.00	150 147 165	3,116.00	150 147 185	3,295.00
5	199 147 206	2,845.00	150 147 226	3,091.00	150 147 166	3,539.00	150 147 186	3,782.00
6	199 147 207	2,845.00	150 147 227	3,091.00	150 147 167	3,539.00	150 147 187	3,782.00
8	199 147 208	3,781.00	150 147 228	4,122.00	150 147 168	4,471.00	150 147 188	4,810.00
10	199 147 209	8,186.00	150 147 229	8,927.00	-	-	-	-
12	199 147 210	9,735.00	150 147 230	9,992.00	-	-	-	-

Size [inch]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	199 147 282	1,892.00	150 147 302	1,988.00	150 147 242	2,543.00	150 147 262	2,638.00
2½	199 147 283	1,923.00	150 147 303	2,040.00	150 147 243	2,573.00	150 147 263	2,690.00
3	199 147 284	1,959.00	150 147 304	2,032.00	150 147 244	2,609.00	150 147 264	2,681.00
4	199 147 285	2,466.00	150 147 305	2,643.00	150 147 245	3,116.00	150 147 265	3,295.00
5	199 147 286	2,845.00	150 147 306	3,091.00	150 147 246	3,539.00	150 147 266	3,782.00
6	199 147 287	2,845.00	150 147 307	3,091.00	150 147 247	3,539.00	150 147 267	3,782.00
8	199 147 288	3,781.00	150 147 308	4,122.00	150 147 248	4,471.00	150 147 268	4,810.00
10	199 147 289	8,186.00	150 147 309	8,927.00	-	-	-	-
12	199 147 290	9,735.00	150 147 310	9,992.00	-	-	-	-

All Type 147 valves have ANSI bolt pattern.

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

Type 147 Electrically Actuated Lug Butterfly Valve



PROGEF® Standard PP

C

d [mm]	100-230 V AC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	199 147 362	1,949.00	150 147 382	2,013.00	150 147 322	2,599.00	150 147 342	2,492.00
2 ½	199 147 363	2,094.00	150 147 383	2,226.00	150 147 323	2,745.00	150 147 343	2,875.00
3	199 147 364	2,161.00	150 147 384	2,249.00	150 147 324	2,809.00	150 147 344	2,902.00
4	199 147 365	2,424.00	150 147 385	2,506.00	150 147 325	3,186.00	150 147 345	3,158.00
5	199 147 366	2,960.00	150 147 386	3,531.00	150 147 326	3,656.00	150 147 346	4,223.00
6	199 147 367	2,960.00	150 147 387	3,531.00	150 147 327	3,656.00	150 147 347	4,223.00
8	199 147 368	3,834.00	150 147 388	4,107.00	150 147 328	4,520.00	150 147 348	4,795.00
10	199 147 369	4,710.00	150 147 389	5,520.00	-	-	-	-
12	199 147 370	5,227.00	150 147 390	6,156.00	-	-	-	-

d [mm]	24 V AC/DC							
	Without Manual Override				With Manual Override			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	150 147 442	1,949.00	150 147 462	2,013.00	150 147 402	2,599.00	150 147 422	2,663.00
2 ½	150 147 443	2,094.00	150 147 463	2,226.00	150 147 403	2,745.00	150 147 423	2,875.00
3	150 147 444	2,161.00	150 147 464	2,249.00	150 147 404	2,809.00	150 147 424	2,902.00
4	150 147 445	2,424.00	150 147 465	2,506.00	150 147 405	3,077.00	150 147 425	3,158.00
5	150 147 446	2,960.00	150 147 466	3,531.00	150 147 406	3,656.00	150 147 426	4,223.00
6	150 147 447	2,960.00	150 147 467	3,531.00	150 147 407	3,656.00	150 147 427	4,223.00
8	150 147 448	3,834.00	150 147 468	4,107.00	150 147 408	4,520.00	150 147 428	4,795.00
10	150 147 449	4,710.00	150 147 469	5,520.00	-	-	-	-
12	150 147 450	5,227.00	150 147 470	6,156.00	-	-	-	-

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

All Type 147 valves have ANSI bolt pattern.

Type 147 Electrically Actuated Lug Butterfly Valve



SYGEF® Standard PVDF

C

d [mm]	100-230 V AC					
	Without Manual Override				With Manual Override	
	FKM	USD	PTFE/FKM	USD	FKM	USD
2	199 147 582	2,247.00	199 147 642	3,217.00	150 147 562	2,929.00
2 ½	199 147 583	2,534.00	199 147 643	3,448.00	150 147 563	3,215.00
3	199 147 584	2,526.00	199 147 644	3,369.00	150 147 564	3,209.00
4	199 147 585	2,784.00	199 147 645	4,046.00	150 147 565	3,469.00
5	199 147 586	3,837.00	199 147 646	5,971.00	150 147 566	4,564.00
6	199 147 587	3,837.00	199 147 647	5,971.00	150 147 567	4,564.00
8	199 147 588	4,615.00	199 147 648	8,694.00	150 147 568	5,337.00
10	199 147 589	6,651.00	150 147 649	10,921.00	-	-
12	199 147 590	7,270.00	150 147 650	12,763.00	-	-

d [mm]	24 V AC/DC					
	Without Manual Override				With Manual Override	
	FKM	USD	PTFE/FKM	USD	FKM	USD
2	150 147 622	2,247.00	150 147 662	3,217.00	150 147 602	3,055.00
2 ½	150 147 623	2,534.00	150 147 663	3,448.00	150 147 603	3,307.00
3	150 147 624	2,526.00	150 147 664	3,369.00	150 147 604	3,270.00
4	150 147 625	2,784.00	150 147 665	4,046.00	150 147 605	3,902.00
5	150 147 626	3,837.00	150 147 666	5,971.00	150 147 606	5,340.00
6	150 147 627	3,837.00	150 147 667	5,971.00	150 147 607	5,340.00
8	150 147 628	4,615.00	150 147 668	8,694.00	150 147 608	8,015.00
10	150 147 629	6,651.00	150 147 669	10,921.00	-	-
12	150 147 630	7,270.00	150 147 670	12,763.00	-	-

All Type 147 valves have ANSI bolt pattern.

Type 563 Electrically Actuated Aqua Water Valve

PVC/EPDM

C

Size [inch]	100-230V			
	75 PSI	USD	150 PSI	USD
2	150 563 070 *	755.00	150 563 080	1,101.00
2 ½	150 563 071 *	787.00	150 563 081	1,108.00
3	150 563 072 *	794.00	150 563 082	1,118.00
4	-	-	150 563 083	1,125.00
5	-	-	150 563 084	1,191.00
6	-	-	150 563 085	1,191.00
8	-	-	150 563 086	1,695.00
10	-	-	150 563 087	2,359.00
12	-	-	150 563 078	2,881.00



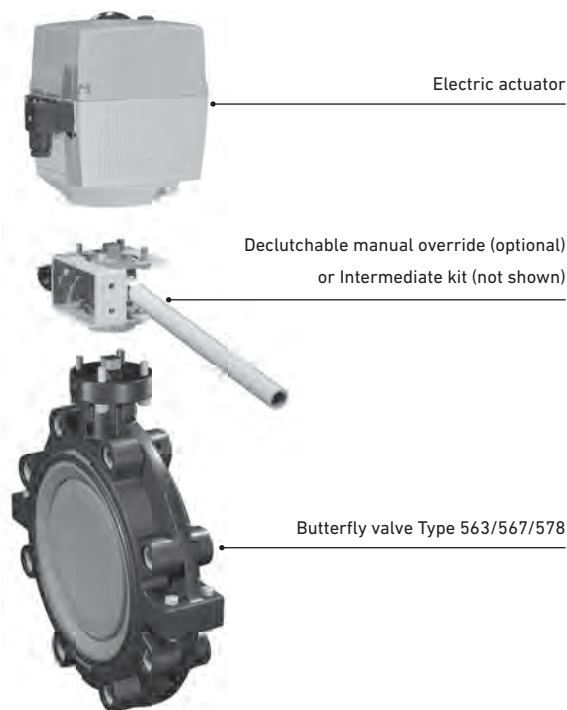
For water use only

- 2" to 3" - Rated to 75 PSI - Assembled with EA 25 Actuator
- 2" & 2 ½" - Rated to 150 PSI - Assembled with EA 45 Actuator
- 3" to 6" - Rated to 150 PSI - Assembled with EA 120 Actuator
- 8" to 12" - Rated to 150 PSI - Assembled with EA 250 Actuator

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 **199145047** (6" Type 145 Butterfly Valve PVC/EPDM) assembled with **199190603** (EA25-250 Positioner Board) should be ordered:

- PO item 1: **S199145047** 6" Type 145 Butterfly Valve PVC/EPDM assembled with positioner 199190603
- PO item 2: **199190603** EA25-250 Positioner Board



Optional Actuator Accessories

Type 145-147

- Positioner board
- Monitoring board
- Fail-safe battery backup
- External fail-safe board
- Profibus DP board

Components by Valve Type

Size d [inch - mm]	Type 145-147			
	Intermediate Kit w/ MO	Intermediate Kit w/o MO	Actuator w/o MO	Actuator w/ MO
2 - 63	198000623	198000601	EA45	EA120
2½ - 75	198000623	198000601	EA45	EA120
3 - 90	198000623	198000601	EA120	EA120
4 - 110	198000624	198000602	EA120	EA120
5 - 140	198000624	198000602	EA120	EA120
6 - 160	198000625	198000600	EA120	EA120
8 - 225	198000627	198000603	EA250	EA250
10 - 280	NA	198000732	EA250	EA250
12 - 315	NA	198000732	EA250	EA250

NA = Not Applicable

Electric Actuators

Part number	Description
198153184	EA45 Electric Actuator 100-230VAC
198153185	EA45 Electric Actuator 24VAC/DC
198153186	EA120 Electric Actuator 100-230VAC
198153187	EA120 Electric Actuator 24VAC/DC
198153188	EA250 Electric Actuator 100-230VAC
198153189	EA250 Electric Actuator 24VAC/DC

Accessories Butterfly Valves



C

Integrated Position Indicator

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	317.00	161 486 858	317.00		
4 - 5	161 486 305	317.00	161 486 304	317.00		
6 - 8	161 486 010	317.00	161 486 009	317.00		
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 ^	731.00	161 486 856 ^	710.00	161 486 857 ^	731.00
4 - 5	161 486 301 ^	731.00	161 486 302 ^	710.00	161 486 303 ^	731.00
6 - 8	161 486 006 ^	731.00	161 486 007 ^	710.00	161 486 008 ^	731.00

Actuators Accessories

C

Description	Part No.	USD
Fail Safe Battery Backup	199 190 601	482.00
Monitor Board	199 190 602	356.00
Positioner Board	199 190 603	894.00
External Fail Safe Return	199 190 604	454.00
Profibus DP Board	199 190 605	1,148.00



Local Control Box

C

Size	Voltage	Lights	Type	Part No.	USD
All	110V AC	Yes	LCB 201	150 300 103	570.00
All	24V AC/DC	Yes	LCB 202	150 300 104	535.00

Local Control Box Accessories

C

Description	Part No.	USD
5 ft. Lead - 4 conduit connection w/ shield	150 300 050	31.00

Accessories Electrically Actuated Butterfly Valves

Stem Extension

C

Size [inch]	Description	SS 316	USD
2 - 3	1st foot SS316	150 567 001 *	653.00
4 - 5	1st foot SS316	150 567 002 *	653.00
6	1st foot SS316	150 567 003 *	653.00
8	1st foot SS316	150 567 004 *	653.00
10 - 12	1st foot SS316	150 567 005 *	653.00
All Sizes	Charge per Additional Foot	-	119.00



Minimum length of 6 inches

Spare Parts Electrically Actuated Butterfly Valve



Electric Actuator

C

Voltage	EA 25		EA 45		EA 120		EA 250	
	Part No.	USD	Part No.	USD	Part No.	USD	Part No.	USD
100-230 V	198 153 182	834.00	198 153 184	1,102.00	198 153 186	1,303.00	198 153 188	1,804.00
24 V	198 153 183	834.00	198 153 185	1,102.00	198 153 187	1,303.00	198 153 189	1,804.00

Intermediate Kit

C

d - Size [mm]-[inch]	Type	Without Manual Override		With Manual Override	
		Part No.	USD	Part No.	USD
63 - 2	EA 45	198 000 601	49.00	198 000 623	910.00
75 - 2 ½	EA 45	198 000 601	49.00	198 000 623	910.00
90 - 3	EA 120	198 000 601	49.00	198 000 623	910.00
110 - 4	EA 120	198 000 602	49.00	198 000 624	910.00
140 - 5	EA 120	198 000 602	49.00	198 000 624	910.00
160 - 6	EA 120	198 000 600	140.00	198 000 625	910.00
225 - 8	EA 250	198 000 603	64.00	198 000 627	910.00
280 - 10	EA 250	198 000 732	75.00	-	-
315 - 12	EA 250	198 000 732	75.00	-	-



Type 233 Pneumatically Actuated Ball Valve

PVC

C

Size [inch]	With Manual Override							
	Socket/Threaded NPT							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 233 002	527.00	199 233 012	538.00	199 233 022	527.00	199 233 032	538.00
1/2	199 233 003	530.00	199 233 013	539.00	199 233 023	530.00	199 233 033	539.00
3/4	199 233 004	538.00	199 233 014	546.00	199 233 024	538.00	199 233 034	546.00
1	199 233 005	548.00	199 233 015	560.00	199 233 025	548.00	199 233 035	560.00
1 1/4	199 233 006	619.00	199 233 016	630.00	199 233 026	619.00	199 233 036	630.00
1 1/2	199 233 007	626.00	199 233 017	654.00	199 233 027	626.00	199 233 037	654.00
2	199 233 008	660.00	199 233 018	688.00	199 233 028	660.00	199 233 038	688.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 233 042	501.00	199 233 052	509.00				
1/2	199 233 043	502.00	199 233 053	509.00				
3/4	199 233 044	509.00	199 233 054	520.00				
1	199 233 045	520.00	199 233 055	531.00				
1 1/4	199 233 046	576.00	199 233 056	591.00				
1 1/2	199 233 047	589.00	199 233 057	614.00				
2	199 233 048	620.00	199 233 058	649.00				
Size [inch]	Without Manual Override							
	Socket/Threaded NPT (3/8" - 2")							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 233 062	404.00	199 233 072	413.00	199 233 082	404.00	199 233 092	413.00
1/2	199 233 063	405.00	199 233 073	413.00	199 233 083	405.00	199 233 093	413.00
3/4	199 233 064	413.00	199 233 074	420.00	199 233 084	413.00	199 233 094	420.00
1	199 233 065	420.00	199 233 075	435.00	199 233 085	420.00	199 233 095	435.00
1 1/4	199 233 066	493.00	199 233 076	505.00	199 233 086	493.00	199 233 096	505.00
1 1/2	199 233 067	501.00	199 233 077	527.00	199 233 087	501.00	199 233 097	527.00
2	199 233 068	538.00	199 233 078	565.00	199 233 088	538.00	199 233 098	565.00
2 1/2	199 233 069	848.00	199 233 079	913.00	199 233 089	^ 863.00	199 233 099	^ 913.00
3	199 233 070	995.00	199 233 080	1,073.00	199 233 090	^ 1,015.00	199 233 100	^ 1,073.00
4	199 233 071	1,061.00	199 233 081	1,158.00	199 233 091	^ 1,085.00	199 233 101	^ 1,158.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 233 102	377.00	199 233 112	382.00				
1/2	199 233 103	377.00	199 233 113	383.00				
3/4	199 233 104	382.00	199 233 114	395.00				
1	199 233 105	395.00	199 233 115	407.00				
1 1/4	199 233 106	451.00	199 233 116	467.00				
1 1/2	199 233 107	456.00	199 233 117	490.00				
2	199 233 108	497.00	199 233 118	524.00				
2 1/2	199 233 109	^ 735.00	199 233 119	^ 782.00				
3	199 233 110	^ 816.00	199 233 120	^ 879.00				
4	199 233 111	^ 888.00	199 233 121	^ 963.00				





2 1/2"-4" Threaded NPT available upon request. Please contact Inside Sales for pricing.

Type 233 Pneumatically Actuated Ball Valve

PVC

C

With Manual Override									
ANSI Flanged									
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)				
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD	
½	199 233 123 ^	593.00	199 233 133 ^	601.00	199 233 143 ^	593.00	199 233 153 ^	601.00	
¾	199 233 124 ^	601.00	199 233 134 ^	613.00	199 233 144 ^	601.00	199 233 154 ^	613.00	
1	199 233 125 ^	613.00	199 233 135 ^	623.00	199 233 145 ^	613.00	199 233 155 ^	623.00	
1 ¼	199 233 126 ^	710.00	199 233 136 ^	720.00	199 233 146 ^	710.00	199 233 156 ^	720.00	
1 ½	199 233 127 ^	727.00	199 233 137 ^	743.00	199 233 147 ^	727.00	199 233 157 ^	743.00	
2	199 233 128 ^	749.00	199 233 138 ^	763.00	199 233 148 ^	749.00	199 233 158 ^	763.00	
Double Acting (DA)									
Size [inch]	EPDM	USD	FKM	USD					
½	199 233 163 ^	566.00	199 233 173 ^	573.00					
¾	199 233 164 ^	574.00	199 233 174 ^	585.00					
1	199 233 165 ^	585.00	199 233 175 ^	596.00					
1 ¼	199 233 166 ^	670.00	199 233 176 ^	681.00					
1 ½	199 233 167 ^	687.00	199 233 177 ^	704.00					
2	199 233 168 ^	710.00	199 233 178 ^	720.00					
									
Without Manual Override									
ANSI Flanged									
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)				
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD	
½	199 233 723 ^	469.00	199 233 733 ^	475.00	199 233 743 ^	469.00	199 233 753 ^	475.00	
¾	199 233 724 ^	476.00	199 233 734 ^	486.00	199 233 744 ^	476.00	199 233 754 ^	486.00	
1	199 233 725 ^	486.00	199 233 735 ^	500.00	199 233 745 ^	486.00	199 233 755 ^	500.00	
1 ¼	199 233 726 ^	585.00	199 233 736 ^	594.00	199 233 746 ^	585.00	199 233 756 ^	594.00	
1 ½	199 233 727 ^	604.00	199 233 737 ^	617.00	199 233 747 ^	604.00	199 233 757 ^	617.00	
2	199 233 728 ^	623.00	199 233 738 ^	639.00	199 233 748 ^	623.00	199 233 758 ^	639.00	
2 ½	199 233 729 ^	1,067.00	199 233 739 ^	1,124.00	199 233 749 ^	1,067.00	199 233 759 ^	1,124.00	
3	199 233 730 ^	1,239.00	199 233 740 ^	1,303.00	199 233 750 ^	1,239.00	199 233 760 ^	1,303.00	
4	199 233 731 ^	1,328.00	199 233 741 ^	1,418.00	199 233 751 ^	1,328.00	199 233 761 ^	1,418.00	
Double Acting (DA)									
Size [inch]	EPDM	USD	FKM	USD					
½	199 233 763 ^	441.00	199 233 773 ^	448.00					
¾	199 233 764 ^	448.00	199 233 774 ^	455.00					
1	199 233 765 ^	455.00	199 233 775 ^	470.00					
1 ¼	199 233 766 ^	540.00	199 233 776 ^	555.00					
1 ½	199 233 767 ^	561.00	199 233 777 ^	574.00					
2	199 233 768 ^	584.00	199 233 778 ^	594.00					
2 ½	199 233 769 ^	920.00	199 233 779 ^	976.00					
3	199 233 770 ^	1,015.00	199 233 780 ^	1,085.00					
4	199 233 771 ^	1,108.00	199 233 781 ^	1,188.00					
									

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	FKM	USD	EPDM	USD	FKM	USD
3/8	199 233 302	554.00	199 233 312	558.00	199 233 322	554.00	199 233 332	558.00
1/2	199 233 303	555.00	199 233 313	561.00	199 233 323	555.00	199 233 333	561.00
3/4	199 233 304	565.00	199 233 314	574.00	199 233 324	565.00	199 233 334	574.00
1	199 233 305	584.00	199 233 315	596.00	199 233 325	584.00	199 233 335	596.00
1 1/4	199 233 306	660.00	199 233 316	681.00	199 233 326	660.00	199 233 336	681.00
1 1/2	199 233 307	685.00	199 233 317	710.00	199 233 327	685.00	199 233 337	710.00
2	199 233 308	717.00	199 233 318	761.00	199 233 328	717.00	199 233 338	761.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 233 342	525.00	199 233 352	530.00				
1/2	199 233 343	526.00	199 233 353	531.00				
3/4	199 233 344	538.00	199 233 354	548.00				
1	199 233 345	554.00	199 233 355	569.00				
1 1/4	199 233 346	620.00	199 233 356	641.00				
1 1/2	199 233 347	642.00	199 233 357	670.00				
2	199 233 348	677.00	199 233 358	718.00				
Without Manual Override								
Socket/Threaded NPT (3/8" - 2")								
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 233 362	430.00	199 233 372	433.00	199 233 382	430.00	199 233 392	433.00
1/2	199 233 363	431.00	199 233 373	435.00	199 233 383	431.00	199 233 393	435.00
3/4	199 233 364	441.00	199 233 374	450.00	199 233 384	441.00	199 233 394	450.00
1	199 233 365	454.00	199 233 375	472.00	199 233 385	454.00	199 233 395	472.00
1 1/4	199 233 366	538.00	199 233 376	556.00	199 233 386	538.00	199 233 396	556.00
1 1/2	199 233 367	558.00	199 233 377	585.00	199 233 387	558.00	199 233 397	585.00
2	199 233 368	592.00	199 233 378	639.00	199 233 388	592.00	199 233 398	639.00
2 1/2	199 233 369	1,158.00	199 233 379	1,093.00	199 233 389	^ 1,035.00	199 233 399	^ 1,042.00
3	199 233 370	1,367.00	199 233 380	1,303.00	199 233 390	^ 1,221.00	199 233 400	^ 1,239.00
4	199 233 371	1,489.00	199 233 381	1,436.00	199 233 391	^ 1,335.00	199 233 401	^ 1,355.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 233 402	401.00	199 233 412	405.00				
1/2	199 233 403	402.00	199 233 413	407.00				
3/4	199 233 404	413.00	199 233 414	421.00				
1	199 233 405	430.00	199 233 415	446.00				
1 1/4	199 233 406	494.00	199 233 416	516.00				
1 1/2	199 233 407	519.00	199 233 417	540.00				
2	199 233 408	553.00	199 233 418	594.00				
2 1/2	199 233 409	^ 896.00	199 233 419	^ 963.00				
3	199 233 410	^ 1,027.00	199 233 420	^ 1,108.00				
4	199 233 411	^ 1,141.00	199 233 421	^ 1,221.00				





2 1/2"-4" Threaded NPT available upon request. Please contact Inside Sales for pricing.

Type 233 Pneumatically Actuated Ball Valve

CPVC

C

With Manual Override												
ANSI Flanged												
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)							
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD				
½	199 233 443	^	641.00	199 233 453	^	648.00	199 233 463	^	641.00	199 233 473	^	648.00
¾	199 233 444	^	653.00	199 233 454	^	662.00	199 233 464	^	653.00	199 233 474	^	662.00
1	199 233 445	^	654.00	199 233 455	^	672.00	199 233 465	^	654.00	199 233 475	^	672.00
1 ¼	199 233 446	^	811.00	199 233 456	^	832.00	199 233 466	^	811.00	199 233 476	^	832.00
1 ½	199 233 447	^	833.00	199 233 457	^	851.00	199 233 467	^	833.00	199 233 477	^	851.00
2	199 233 448	^	854.00	199 233 458	^	875.00	199 233 468	^	854.00	199 233 478	^	875.00
Double Acting (DA)												
Size [inch]	Double Acting (DA)											
	EPDM	USD	FKM	USD								
½	199 233 483	^	614.00	199 233 493	^	619.00						
¾	199 233 484	^	624.00	199 233 494	^	638.00						
1	199 233 485	^	626.00	199 233 495	^	643.00						
1 ¼	199 233 486	^	773.00	199 233 496	^	789.00						
1 ½	199 233 487	^	791.00	199 233 497	^	810.00						
2	199 233 488	^	811.00	199 233 498	^	832.00						
2	199 233 488	^	811.00	199 233 498	^	832.00						
Without Manual Override												
ANSI Flanged												
Size [inch]	Fail Safe to Close (FC)				Fail Safe to Open (FO)							
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD				
½	199 233 803	^	516.00	199 233 813	^	523.00	199 233 823	^	516.00	199 233 833	^	523.00
¾	199 233 804	^	527.00	199 233 814	^	539.00	199 233 824	^	527.00	199 233 834	^	539.00
1	199 233 805	^	530.00	199 233 815	^	546.00	199 233 825	^	530.00	199 233 835	^	546.00
1 ¼	199 233 806	^	687.00	199 233 816	^	708.00	199 233 826	^	687.00	199 233 836	^	708.00
1 ½	199 233 807	^	710.00	199 233 817	^	726.00	199 233 827	^	710.00	199 233 837	^	726.00
2	199 233 808	^	727.00	199 233 818	^	748.00	199 233 828	^	727.00	199 233 838	^	748.00
2 ½	199 233 809	^	1,254.00	199 233 819	^	1,254.00	199 233 829	^	1,254.00	199 233 839	^	1,303.00
3	199 233 810	^	1,468.00	199 233 820	^	1,484.00	199 233 830	^	1,468.00	199 233 840	^	1,547.00
4	199 233 811	^	1,595.00	199 233 821	^	1,630.00	199 233 831	^	1,595.00	199 233 841	^	1,678.00
Double Acting (DA)												
Size [inch]	Double Acting (DA)											
	EPDM	USD	FKM	USD								
½	199 233 843	^	490.00	199 233 853	^	493.00						
¾	199 233 844	^	500.00	199 233 854	^	509.00						
1	199 233 845	^	501.00	199 233 855	^	520.00						
1 ¼	199 233 846	^	648.00	199 233 856	^	664.00						
1 ½	199 233 847	^	670.00	199 233 857	^	686.00						
2	199 233 848	^	687.00	199 233 858	^	708.00						
2 ½	199 233 849	^	1,108.00	199 233 859	^	1,158.00						
3	199 233 850	^	1,239.00	199 233 860	^	1,303.00						
4	199 233 851	^	1,376.00	199 233 861	^	1,468.00						

Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C

With Manual Override								
Socket Fusion								
d [mm]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 231 002	467.00	199 231 012	500.00	199 231 042	504.00	199 231 052	520.00
20	199 231 623	537.00	199 231 633	553.00	199 231 643	558.00	199 231 653	572.00
25	199 231 624	554.00	199 231 634	571.00	199 231 644	573.00	199 231 654	593.00
32	199 231 625	575.00	199 231 635	596.00	199 231 645	600.00	199 231 655	614.00
40	199 231 006	576.00	199 231 016	592.00	199 231 046	620.00	199 231 056	649.00
50	199 231 007	640.00	199 231 017	659.00	199 231 047	659.00	199 231 057	683.00
63	199 231 008	680.00	199 231 018	735.00	199 231 048	704.00	199 231 058	755.00
Double Acting (DA)								
d [mm]	EPDM	USD	FKM	USD				
	EPDM	USD	FKM	USD				
16	199 231 082	490.00	199 231 092	501.00				
20	199 231 663	538.00	199 231 673	554.00				
25	199 231 664	556.00	199 231 674	572.00				
32	199 231 665	576.00	199 231 675	598.00				
40	199 231 086	598.00	199 231 096	624.00				
50	199 231 087	640.00	199 231 097	659.00				
63	199 231 088	680.00	199 231 098	735.00				
Without Manual Override								
Socket Fusion								
d [mm]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 231 122	403.00	199 231 132	413.00	199 231 162	421.00	199 231 172	433.00
20	199 231 833	445.00	199 231 843	454.00	199 231 853	465.00	199 231 863	478.00
25	199 231 834	454.00	199 231 844	474.00	199 231 854	478.00	199 231 864	493.00
32	199 231 835	480.00	199 231 845	497.00	199 231 855	499.00	199 231 865	518.00
40	199 231 126	509.00	199 231 136	538.00	199 231 166	531.00	199 231 176	560.00
50	199 231 127	550.00	199 231 137	570.00	199 231 167	570.00	199 231 177	593.00
63	199 231 128	591.00	199 231 138	644.00	199 231 168	614.00	199 231 178	670.00
75	199 231 129	1,200.00	199 231 139	1,303.00	199 231 169	1,108.00	199 231 179	1,303.00
90	199 231 130	1,418.00	199 231 140	1,547.00	199 231 170	1,303.00	199 231 180	1,547.00
110	199 231 131	1,547.00	199 231 141	1,710.00	199 231 171	1,436.00	199 231 181	1,710.00
Double Acting (DA)								
d [mm]	EPDM	USD	FKM	USD				
	EPDM	USD	FKM	USD				
16	199 231 202	405.00	199 231 212	416.00				
20	199 231 873	448.00	199 231 883	460.00				
25	199 231 874	460.00	199 231 884	475.00				
32	199 231 875	482.00	199 231 885	498.00				
40	199 231 206	509.00	199 231 216	538.00				
50	199 231 207	550.00	199 231 217	570.00				
63	199 231 208	591.00	199 231 218	644.00				
75	199 231 209	1,051.00	199 231 219	1,158.00				
90	199 231 210	1,188.00	199 231 220	1,335.00				
110	199 231 211	1,335.00	199 231 221	1,499.00				



Type 231 Pneumatically Actuated Ball Valve

PROGEF® Standard PP

C





With Manual Override								
IR/Butt Fusion								
d [mm]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	199 231 623	537.00	199 231 633	553.00	199 231 643	558.00	199 231 653	572.00
25	199 231 624	554.00	199 231 634	571.00	199 231 644	573.00	199 231 654	593.00
32	199 231 625	575.00	199 231 635	596.00	199 231 645	600.00	199 231 655	614.00
40	199 231 626	635.00	199 231 636	650.00	199 231 646	683.00	199 231 656	714.00
50	199 231 627	704.00	199 231 637	725.00	199 231 647	725.00	199 231 657	751.00
63	199 231 628	748.00	199 231 638	809.00	199 231 648	774.00	199 231 658	829.00
Double Acting (DA)								
d [mm]	EPDM	USD	FKM	USD				
	EPDM	USD	FKM	USD				
20	199 231 663	538.00	199 231 673	554.00				
25	199 231 664	556.00	199 231 674	572.00				
32	199 231 665	576.00	199 231 675	598.00				
40	199 231 666	658.00	199 231 676	686.00				
50	199 231 667	704.00	199 231 677	725.00				
63	199 231 668	748.00	199 231 678	809.00				
Without Manual Override								
IR/Butt Fusion								
d [mm]	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	199 231 833	445.00	199 231 843	454.00	199 231 853	465.00	199 231 863	478.00
25	199 231 834	454.00	199 231 844	474.00	199 231 854	478.00	199 231 864	493.00
32	199 231 835	480.00	199 231 845	497.00	199 231 855	499.00	199 231 865	518.00
40	199 231 836	562.00	199 231 846	593.00	199 231 856	584.00	199 231 866	614.00
50	199 231 837	604.00	199 231 847	628.00	199 231 857	628.00	199 231 867	651.00
63	199 231 838	649.00	199 231 848	710.00	199 231 858	676.00	199 231 868	736.00
75	199 231 839	1,320.00	199 231 849	1,435.00	199 231 859 ^	1,220.00	199 231 869 ^	1,435.00
90	199 231 840	1,560.00	199 231 850	1,702.00	199 231 860 ^	1,435.00	199 231 870 ^	1,702.00
110	199 231 841	1,702.00	199 231 851	1,883.00	199 231 861 ^	1,578.00	199 231 871 ^	1,883.00
Double Acting (DA)								
d [mm]	EPDM	USD	FKM	USD				
	EPDM	USD	FKM	USD				
20	199 231 873	448.00	199 231 883	460.00				
25	199 231 874	460.00	199 231 884	475.00				
32	199 231 875	482.00	199 231 885	498.00				
40	199 231 876	562.00	199 231 886	593.00				
50	199 231 877	604.00	199 231 887	628.00				
63	199 231 878	649.00	199 231 888	710.00				
75	199 231 879 ^	1,154.00	199 231 889 ^	1,273.00				
90	199 231 880 ^	1,309.00	199 231 890 ^	1,470.00				
110	199 231 881 ^	1,470.00	199 231 891 ^	1,648.00				



Type 232 Pneumatically Actuated Ball Valve

SYGEF® Standard PVDF

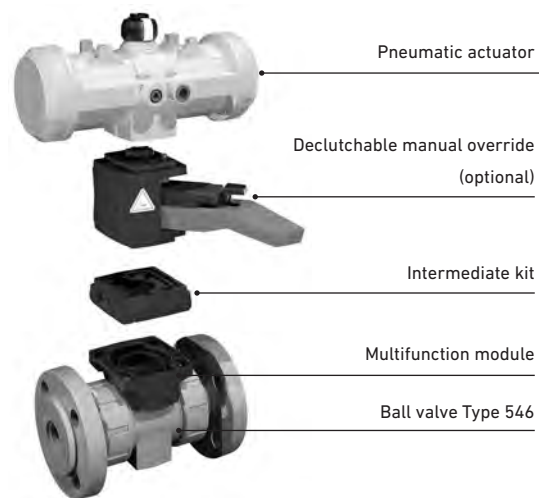
C

		With Manual Override					
		Socket Fusion					
d [mm]	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)		
	FKM	USD	FKM	USD	FKM	USD	
16	199 232 012	^ 637.00	199 232 052	^ 652.00	199 232 092	^ 638.00	
20	199 232 013	^ 648.00	199 232 053	^ 670.00	199 232 093	^ 649.00	
25	199 232 014	^ 697.00	199 232 054	^ 717.00	199 232 094	^ 698.00	
32	199 232 015	^ 776.00	199 232 055	^ 793.00	199 232 095	^ 778.00	
40	199 232 016	^ 921.00	199 232 056	^ 946.00	199 232 096	^ 921.00	
50	199 232 017	^ 1,123.00	199 232 057	^ 1,146.00	199 232 097	^ 1,123.00	
63	199 232 018	^ 1,364.00	199 232 058	^ 1,390.00	199 232 098	^ 1,364.00	
		Without Manual Override					
		Socket Fusion					
d [mm]	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
	FKM	USD	FKM	USD	FKM	USD	
16	199 232 132	^ 541.00	199 232 172	^ 562.00	199 232 212	^ 542.00	
20	199 232 133	^ 553.00	199 232 173	^ 573.00	199 232 213	^ 554.00	
25	199 232 134	^ 603.00	199 232 174	^ 621.00	199 232 214	^ 604.00	
32	199 232 135	^ 683.00	199 232 175	^ 704.00	199 232 215	^ 685.00	
40	199 232 136	^ 827.00	199 232 176	^ 853.00	199 232 216	^ 827.00	
50	199 232 137	^ 1,032.00	199 232 177	^ 1,052.00	199 232 217	^ 1,032.00	
63	199 232 138	^ 1,271.00	199 232 178	^ 1,295.00	199 232 218	^ 1,271.00	
75	199 232 139	^ 3,249.00	199 232 179	^ 3,249.00	199 232 219	^ 2,924.00	
90	199 232 140	^ 3,900.00	199 232 180	^ 3,900.00	199 232 220	^ 3,510.00	
110	199 232 141	^ 4,679.00	199 232 181	^ 4,679.00	199 232 221	^ 4,212.00	
		With Manual Override					
		IR/Butt Fusion					
d [mm]	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
	FKM	USD	FKM	USD	FKM	USD	
20	199 232 713	^ 648.00	199 232 753	^ 670.00	199 232 793	^ 649.00	
25	199 232 714	^ 697.00	199 232 754	^ 717.00	199 232 794	^ 698.00	
32	199 232 715	^ 776.00	199 232 755	^ 793.00	199 232 795	^ 778.00	
40	199 232 716	^ 921.00	199 232 756	^ 946.00	199 232 796	^ 921.00	
50	199 232 717	^ 1,123.00	199 232 757	^ 1,146.00	199 232 797	^ 1,123.00	
63	199 232 718	^ 1,364.00	199 232 758	^ 1,390.00	199 232 798	^ 1,364.00	
		Without Manual Override					
		IR/Butt Fusion					
d [mm]	Fail Safe to Close (FC)		Fail Safe to Open (FC)		Double Acting (DA)		
	FKM	USD	FKM	USD	FKM	USD	
20	199 232 833	^ 553.00	199 232 873	^ 573.00	199 232 913	^ 553.00	
25	199 232 834	^ 603.00	199 232 874	^ 621.00	199 232 914	^ 603.00	
32	199 232 835	^ 683.00	199 232 875	^ 704.00	199 232 915	^ 683.00	
40	199 232 836	^ 827.00	199 232 876	^ 853.00	199 232 916	^ 827.00	
50	199 232 837	^ 1,032.00	199 232 877	^ 1,052.00	199 232 917	^ 1,032.00	
63	199 232 838	^ 1,271.00	199 232 878	^ 1,295.00	199 232 918	^ 1,271.00	
75	199 232 839	^ 3,249.00	199 232 879	^ 3,249.00	199 232 919	^ 2,924.00	
90	199 232 840	^ 3,900.00	199 232 880	^ 3,900.00	199 232 920	^ 3,510.00	
110	199 232 841	^ 4,679.00	199 232 881	^ 4,679.00	199 232 921	^ 4,212.00	

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 **199233005** (1" Type 233 Ball Valve PVC/EPDM) assembled with **199190282** (Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199233005** 1" Type 233 Ball Valve PVC/EPDM assembled limit switch 199190282
- PO item 2: **199190282** Mechanical Limit Switches Ag-Ni



Optional Actuator Accessories

Type 231–233

- Limit Switch Reading off Actuator
- Limit Switch Reading off Valve (within MFM)
- Positioner
- LCB Local control station
- Pilot Valve
- Stroke Limiter

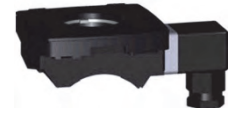
Components by Valve Type

Size d [inch - mm]	Action	Type 231-233				Actuator
		Multifunction Module	Intermediate Kit	Manual Override		
3/8 - 16	FC - FO - DA	167482680	198150556	198000500	PA11	
1/2 - 20	FC - FO - DA	167482680	198150556	198000500	PA11	
3/4 - 25	FC - FO - DA	167482681	198150557	198000500	PA11	
1 - 32	FC - FO - DA	167482681	198150557	198000500	PA11	
1 1/4 - 40	FC - FO - DA	167482682	198150558	198000501	PA21	
1 1/2 - 50	FC - FO - DA	167482682	198150558	198000501	PA21	
2 - 63	FC - FO - DA	167482683	198150559	198000501	PA21	
2 1/2 - 75	FC - FO	167482684	198000595	198000630	PA30	
2 1/2 - 75	DA	167482684	198000595	198000631	PA35	
3 - 90	FC - FO	167482684	198000596	198000628	PA40	
3 - 90	DA	167482684	198000595	198000630	PA40	
4 - 110	FC - FO	167482685	198000600	198000630	PA40	
4 - 110	DA	167482685	198000600	198000628	PA45	

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 FC
198800758	PA35 DA
198811027	PA40 FO
198800728	PA40 FC
198800040	PA45 DA

Accessories Pneumatically Actuated Ball Valves



C

Multifunction Module Switch Kit

Size [inch]	Mechanical Limit Switches				Inductive Limit Switches			
	Ag Ni	USD	Au	USD	PNP	USD	NPN	USD
3/8 - 1/2	167 482 626	64.00	167 482 635	64.00	167 482 662	220.00	167 482 653	220.00
3/4 - 1	167 482 627	67.00	167 482 636	67.00	167 482 663	227.00	167 482 654	227.00
1 1/4 - 1 1/2	167 482 628	82.00	167 482 637	82.00	167 482 664	242.00	167 482 655	242.00
2	167 482 629	87.00	167 482 638	87.00	167 482 665	245.00	167 482 656	245.00
2 1/2 - 3	167 482 630	118.00	167 482 639	118.00	167 482 666	282.00	167 482 657	282.00
4	167 482 631	136.00	167 482 640	136.00	167 482 667	298.00	167 482 658	298.00

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	346.00
10 - 30 V, 0.1 A	Inductive NPN	199 190 283 ^	558.00
10 - 30 V, 0.1 A	Inductive PNP	199 190 284 ^	558.00
5 - 15 V	Intrinsically Safe	199 190 285 ^	565.00
250 V, 5 A	Explosion Proof	199 190 286 ^	1,104.00
30 V, 1 - 100 mA	Au	199 190 287	314.00



Does not require additional adapter kits.

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	117.00	199 190 554	169.00	110 V, AC	199 190 359	197.00
110 V, 50-60 Hz	199 190 547	117.00	199 190 555	169.00	230 V, AC	199 190 360 ^	197.00
Voltage	Type 5470 4/2-way				48 V, AC	199 190 361 ^	197.00
	DA	USD			24 V, AC	199 190 358 ^	197.00
230 V, AC/DC	199 190 302	241.00			24 V, DC	199 190 357	197.00
115 V, AC/DC	199 190 303	241.00			Speed control pilot solenoid		
24 V, AC/DC	199 190 304	241.00					

NAMUR Connector Plate

C

d [mm]	Size [inch]	Part No.	USD
20 - 63	1/2 - 2	199 190 378	68.00
75 - 110	2 1/2 - 4	199 190 275	61.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

DIN Plug

C

Description	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	19.00
PV94/95 Female Plug Only	150 101 066	12.00

Digital Electro-Pneumatic Positioner

C

Description	DSR 500-3	
	Part No.	USD
Without Feedback	199 190 108 ^	1,679.00
Feedback Module	199 190 109 ^	342.00
Explosion Proof	150 190 108 *	1,911.00
With Digital Display	150 190 118 *	1,688.00



Mount

C

Namur Mounting Flange	
Part No.	USD
199 190 281	52.00

Required for DSR 500-3

NAMUR Mounting Flange shown in table at right is required for DSR 500-3 assemblies.

Configured for Fail Close valves standard. FO available upon request. DA configurations ONLY available for 199190108 units upon request.

Spare Parts Pneumatically Actuated Ball Valves



Type PA 11 / PA 21 Pneumatic Actuator

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	270.00	198 150 128	270.00	198 150 129	245.00
PA 21	1 1/4 - 2	198 150 130	320.00	198 150 131	320.00	198 150 132	282.00

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 ^	383.00	198 150 145 *	383.00	198 150 146 *	336.00
PA 21	1 1/4 - 2	198 150 147 ^	435.00	198 150 148 *	435.00	198 150 149 *	377.00

Limit stroke up to 45°

Type PA 30 - PA 45 Pneumatic Actuator

C

Type	Fail Safe to Close		Fail Safe to Open		Type	Double Acting (DA)	
	Part No.	USD	Part No.	USD		Part No.	USD
PA 30	198 800 757	377.00	198 811 025 ^	377.00	PA 35	198 800 758 ^	270.00
PA 35	198 800 037	434.00	198 811 026 ^	434.00	PA 40	198 800 759 ^	289.00
PA 40	198 800 728	495.00	198 811 027 ^	495.00	PA 45	198 800 040 ^	334.00

Multifunction Modules

C

d - d [mm]	Size [inch]	Without Limit Switches	
		Part No.	USD
16 - 20	3/8 - 1/2	167 482 680	5.00
25 - 32	3/4 - 1	167 482 681	5.00
40 - 50	1 1/4 - 1 1/2	167 482 682	8.00
63	2	167 482 683	9.00
75 - 90	2 1/2 - 3	167 482 684	33.00
110	4	167 482 685	45.00

Intermediate Kit

C

d - d [mm]	Size [inch]	Part No.	USD
16 - 20	3/8 - 1/2	198 150 556	28.00
25 - 30	3/4 - 1	198 150 557	28.00
40 - 50	1 1/4 - 1 1/2	198 150 558	28.00
63	2	198 150 559	28.00

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	140.00
40 - 63	1 1/4 - 2	198 000 501	140.00

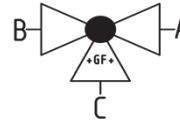
BSPT to NPT Brass Adapter

C

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



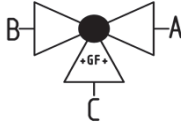
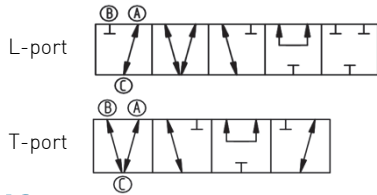
PVC

C

Size [inch]	Socket - With Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 288 492	698.00	199 288 502	710.00	199 288 512	698.00	199 288 522	710.00
1/2	199 288 493	700.00	199 288 503	711.00	199 288 513	700.00	199 288 523	711.00
3/4	199 288 494	719.00	199 288 504	728.00	199 288 514	719.00	199 288 524	728.00
1	199 288 495	742.00	199 288 505	758.00	199 288 515	742.00	199 288 525	758.00
1 1/4	199 288 496	814.00	199 288 506	827.00	199 288 516	814.00	199 288 526	827.00
1 1/2	199 288 497	889.00	199 288 507	913.00	199 288 517	889.00	199 288 527	913.00
2	199 288 498	933.00	199 288 508	973.00	199 288 518	933.00	199 288 528	973.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 288 532	698.00	199 288 542	710.00				
1/2	199 288 533	700.00	199 288 543	711.00				
3/4	199 288 534	719.00	199 288 544	728.00				
1	199 288 535	742.00	199 288 545	758.00				
1 1/4	199 288 536	814.00	199 288 546	827.00				
1 1/2	199 288 537	889.00	199 288 547	913.00				
2	199 288 538	933.00	199 288 548	973.00				
Size [inch]	Socket - Without Manual Override							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 288 552	558.00	199 288 562	569.00	199 288 572	558.00	199 288 582	569.00
1/2	199 288 553	560.00	199 288 563	570.00	199 288 573	560.00	199 288 583	570.00
3/4	199 288 554	579.00	199 288 564	589.00	199 288 574	579.00	199 288 584	589.00
1	199 288 555	601.00	199 288 565	618.00	199 288 575	601.00	199 288 585	618.00
1 1/4	199 288 556	673.00	199 288 566	687.00	199 288 576	673.00	199 288 586	687.00
1 1/2	199 288 557	749.00	199 288 567	773.00	199 288 577	749.00	199 288 587	773.00
2	199 288 558	792.00	199 288 568	832.00	199 288 578	792.00	199 288 588	832.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
3/8	199 288 592	558.00	199 288 602	569.00				
1/2	199 288 593	560.00	199 288 603	570.00				
3/4	199 288 594	579.00	199 288 604	589.00				
1	199 288 595	601.00	199 288 605	618.00				
1 1/4	199 288 596	673.00	199 288 606	687.00				
1 1/2	199 288 597	749.00	199 288 607	773.00				
2	199 288 598	792.00	199 288 608	832.00				



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	FKM	USD	EPDM	USD	FKM	USD
3/8	199 285 382	558.00	199 285 392	569.00	199 285 542	558.00	199 285 552	569.00
1/2	199 285 383	560.00	199 285 393	570.00	199 285 543	560.00	199 285 553	570.00
3/4	199 285 384	579.00	199 285 394	589.00	199 285 544	579.00	199 285 554	589.00
1	199 285 385	601.00	199 285 395	618.00	199 285 545	601.00	199 285 555	618.00
1 1/4	199 285 386	673.00	199 285 396	687.00	199 285 546	673.00	199 285 556	687.00
1 1/2	199 285 387	749.00	199 285 397	773.00	199 285 547	749.00	199 285 557	773.00
2	199 285 388	792.00	199 285 398	832.00	199 285 548	792.00	199 285 558	832.00

Size [inch]	T-port: Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 285 422	558.00	199 285 432	569.00	199 285 582	558.00	199 285 592	569.00
1/2	199 285 423	560.00	199 285 433	570.00	199 285 583	560.00	199 285 593	570.00
3/4	199 285 424	579.00	199 285 434	589.00	199 285 584	579.00	199 285 594	589.00
1	199 285 425	601.00	199 285 435	618.00	199 285 585	601.00	199 285 595	618.00
1 1/4	199 285 426	673.00	199 285 436	687.00	199 285 586	673.00	199 285 596	687.00
1 1/2	199 285 427	749.00	199 285 437	773.00	199 285 587	749.00	199 285 597	773.00
2	199 285 428	792.00	199 285 438	832.00	199 285 588	792.00	199 285 598	832.00

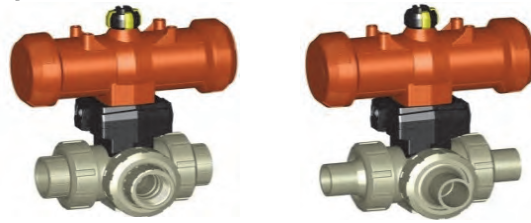
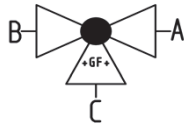
CPVC

C

Size [inch]	L-port: Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 285 462	592.00	199 285 472	609.00	199 285 942	592.00	199 285 952	609.00
1/2	199 285 463	592.00	199 285 473	609.00	199 285 943	592.00	199 285 953	609.00
3/4	199 285 464	623.00	199 285 474	638.00	199 285 944	623.00	199 285 954	638.00
1	199 285 465	691.00	199 285 475	691.00	199 285 945	691.00	199 285 955	691.00
1 1/4	199 285 466	767.00	199 285 476	788.00	199 285 946	767.00	199 285 956	788.00
1 1/2	199 285 467	854.00	199 285 477	896.00	199 285 947	854.00	199 285 957	896.00
2	199 285 468	958.00	199 285 478	1,033.00	199 285 948	958.00	199 285 958	1,033.00

Size [inch]	T-port: Socket							
	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
3/8	199 285 502	592.00	199 285 512	609.00	199 285 982	592.00	199 285 992	609.00
1/2	199 285 503	592.00	199 285 513	609.00	199 285 983	592.00	199 285 993	609.00
3/4	199 285 504	623.00	199 285 514	638.00	199 285 984	623.00	199 285 994	638.00
1	199 285 505	691.00	199 285 515	691.00	199 285 985	691.00	199 285 995	691.00
1 1/4	199 285 506	767.00	199 285 516	788.00	199 285 986	767.00	199 285 996	788.00
1 1/2	199 285 507	854.00	199 285 517	896.00	199 285 987	854.00	199 285 997	896.00
2	199 285 508	958.00	199 285 518	1,033.00	199 285 988	958.00	199 285 998	1,033.00

Type 286 Pneumatically Actuated 3-Way Horizontal Ball Valve

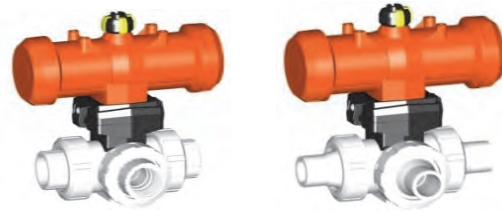
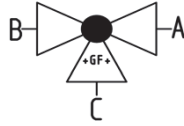
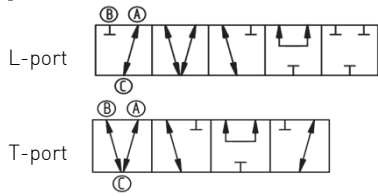


PROGEF® Standard PP

C

L-port: Socket Fusion								
d [mm]	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 286 022	599.00	199 286 032	633.00	199 286 182	599.00	199 286 192	633.00
20	199 286 023	599.00	199 286 033	633.00	199 286 183	599.00	199 286 193	633.00
25	199 286 024	638.00	199 286 034	654.00	199 286 184	638.00	199 286 194	654.00
32	199 286 025	685.00	199 286 035	725.00	199 286 185	685.00	199 286 195	710.00
40	199 286 026	801.00	199 286 036	833.00	199 286 186	801.00	199 286 196	833.00
50	199 286 027	900.00	199 286 037	948.00	199 286 187	900.00	199 286 197	948.00
63	199 286 028	1,013.00	199 286 038	1,090.00	199 286 188	1,013.00	199 286 198	1,090.00
L-Port: IR/Butt Fusion								
d [mm]	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	199 286 083	607.00	199 286 093	640.00	199 286 243	599.00	199 286 253	633.00
25	199 286 084	638.00	199 286 094	671.00	199 286 244	638.00	199 286 254	654.00
32	199 286 085	687.00	199 286 095	739.00	199 286 245	685.00	199 286 255	718.00
40	199 286 086	801.00	199 286 096	833.00	199 286 246	801.00	199 286 256	833.00
50	199 286 087	900.00	199 286 097	948.00	199 286 247	900.00	199 286 257	948.00
63	199 286 088	1,013.00	199 286 098	1,090.00	199 286 248	1,013.00	199 286 258	1,090.00
T-port: Socket Fusion								
d [mm]	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
16	199 286 062	599.00	199 286 072	633.00	199 286 222	599.00	199 286 232	633.00
20	199 286 063	599.00	199 286 073	633.00	199 286 223	599.00	199 286 233	633.00
25	199 286 064	638.00	199 286 074	654.00	199 286 224	638.00	199 286 234	654.00
32	199 286 065	685.00	199 286 075	710.00	199 286 225	685.00	199 286 235	710.00
40	199 286 066	801.00	199 286 076	833.00	199 286 226	801.00	199 286 236	833.00
50	199 286 067	900.00	199 286 077	948.00	199 286 227	900.00	199 286 237	948.00
63	199 286 068	1,013.00	199 286 078	1,090.00	199 286 228	1,013.00	199 286 238	1,090.00
T-port: IR/Butt Fusion								
d [mm]	Fail Safe to Close (FC)				Double Acting (DA)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	199 286 103	599.00	199 286 113	633.00	199 286 263	599.00	199 286 273	633.00
25	199 286 104	638.00	199 286 114	654.00	199 286 264	638.00	199 286 274	654.00
32	199 286 105	685.00	199 286 115	710.00	199 286 265	685.00	199 286 275	710.00
40	199 286 106	801.00	199 286 116	833.00	199 286 266	827.00	199 286 276	833.00
50	199 286 107	900.00	199 286 117	948.00	199 286 267	900.00	199 286 277	948.00
63	199 286 108	1,013.00	199 286 118	1,090.00	199 286 268	1,013.00	199 286 278	1,090.00

Type 287 Pneumatically Actuated 3-Way Ball Valve



SYGEF® Standard PVDF

C

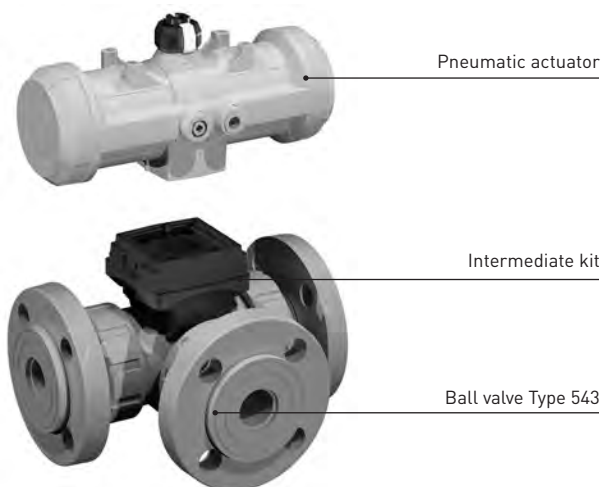
d - Size [mm]-[Inch]	Horizontal / L-port			
	Socket Fusion - FC		IR/Butt Fusion - FC	
	FKM	USD	FKM	USD
16 - 3/8	199 287 092 ^	825.00	-	-
20 - 1/2	199 287 093 ^	825.00	199 287 053 ^	825.00
25 - 3/4	199 287 094 ^	933.00	199 287 054 ^	933.00
32 - 1	199 287 095 ^	1,083.00	199 287 055 ^	1,083.00
40 - 1 1/4	199 287 096 ^	1,322.00	199 287 056 ^	1,322.00
50 - 1 1/2	199 287 097 ^	1,556.00	199 287 057 ^	1,556.00
63 - 2	199 287 098 ^	1,981.00	199 287 058 ^	1,981.00
d [mm]	Horizontal / T-port			
	Socket Fusion - DA		IR/Butt Fusion - DA	
	FKM	USD	FKM	USD
16 - 3/8	199 287 212 ^	865.00	-	-
20 - 1/2	199 287 213 ^	865.00	199 287 173 ^	865.00
25 - 3/4	199 287 214 ^	978.00	199 287 174 ^	978.00
32 - 1	199 287 215 ^	1,136.00	199 287 175 ^	1,136.00
40 - 1 1/4	199 287 216 ^	1,388.00	199 287 176 ^	1,388.00
50 - 1 1/2	199 287 217 ^	1,633.00	199 287 177 ^	1,633.00
63 - 2	199 287 218 ^	2,080.00	199 287 178 ^	2,080.00
d - Size [mm]-[Inch]	Horizontal / T-port			
	Socket Fusion - FC		IR/Butt Fusion - FC	
	FKM	USD	FKM	USD
16 - 3/8	199 287 112 ^	865.00	-	-
20 - 1/2	199 287 113 ^	865.00	199 287 073 ^	865.00
25 - 3/4	199 287 114 ^	978.00	199 287 074 ^	978.00
32 - 1	199 287 115 ^	1,136.00	199 287 075 ^	1,136.00
40 - 1 1/4	199 287 116 ^	1,388.00	199 287 076 ^	1,388.00
50 - 1 1/2	199 287 117 ^	1,633.00	199 287 077 ^	1,633.00
63 - 2	199 287 118 ^	2,080.00	199 287 078 ^	2,080.00
d [mm]	Horizontal / T-port			
	Socket Fusion - DA		IR/Butt Fusion - DA	
	FKM	USD	FKM	USD
16 - 3/8	199 287 232 ^	865.00	-	-
20 - 1/2	199 287 233 ^	865.00	199 287 193 ^	865.00
25 - 3/4	199 287 234 ^	978.00	199 287 194 ^	978.00
32 - 1	199 287 235 ^	1,136.00	199 287 195 ^	1,136.00
40 - 1 1/4	199 287 236 ^	1,388.00	199 287 196 ^	1,388.00
50 - 1 1/2	199 287 237 ^	1,633.00	199 287 197 ^	1,633.00
63 - 2	199 287 238 ^	2,080.00	199 287 198 ^	2,080.00

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 **199285385** (1" Type 285 Ball Valve PVC/EPDM) assembled with **199190282** (Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199285385** 1" Type 285 Ball Valve PVC/EPDM assembled with limit switch 199190282
- PO item 2: **199190282** Mechanical Limit Switches Ag-Ni



Optional Actuator Accessories

Type 285–288

- Limit Switch
- Positioner
- LCB Local control station
- Pilot Valve
- Stroke Limiter

Components by Valve Type

Size d [inch - mm]	Action	Type 285		Type 288	
		Intermediate Kit	Actuator	Intermediate Kit	Actuator
3/8 - 16	FC - FO - DA	167484941	PA11	167484945	PA11
1/2 - 20	FC - FO - DA	167484941	PA11	167484945	PA11
3/4 - 25	FC - FO - DA	167484942	PA11	167484946	PA11
1 - 32	FC - FO - DA	167484942	PA11	167484946	PA11
1 1/4 - 40	FC - FO - DA	167484943	PA21	167484947	PA21
1 1/2 - 50	FC - FO - DA	167484943	PA21	167484947	PA21
2 - 63	FC - FO - DA	167484945	PA21	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	64.00	167 482 635	64.00
25 - 32	3/4 - 1	167 482 627	67.00	167 482 636	67.00
40 - 50	1 1/4 - 1 1/2	167 482 628	82.00	167 482 637	82.00
63	2	167 482 629	87.00	167 482 638	87.00




d - d [mm]	Size [inch]	Inductive Limit Switches			
		PNP	USD	NPN	USD
16 - 20	3/8 - 1/2	167 482 662	220.00	167 482 653	220.00
25 - 32	3/4 - 1	167 482 663	227.00	167 482 654	227.00
40 - 50	1 1/4 - 1 1/2	167 482 664	242.00	167 482 655	242.00
63	2	167 482 665	245.00	167 482 656	245.00

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	346.00
10 - 30 V, 0.1 A	Inductive NPN	199 190 283 ^	558.00
10 - 30 V, 0.1 A	Inductive PNP	199 190 284 ^	558.00
5 - 15 V	Intrinsically Safe	199 190 285 ^	565.00
250 V, 5 A	Explosion Proof	199 190 286 ^	1,104.00
30 V, 1 - 100 mA	Au	199 190 287	314.00




Does not require additional adapter kits.

Digital Electro-Pneumatic Positioner

C

Description	DSR 500-3		
	Part No		USD
Without Feedback	199 190 108 ^		1,679.00
Feedback Module	199 190 109 ^		342.00
Explosion Proof	150 190 108 *		1,911.00
With Digital Display	150 190 118 *		1,688.00



NAMUR Mounting Flange shown in table below is required for DSR 500-3 assemblies.

Configured for Fail Close valves standard. FO available upon request. DA configurations ONLY available for 199190108 units upon request.

NAMUR Mounting Flange

C

Size	Namur Mounting Flange	
	Part No.	USD
All	199 190 281	52.00

Required for DSR 500-3

Accessories Pneumatically Actuated 3-Way Ball Valves



Pilot Solenoid Valve

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	117.00	199 190 554	169.00	110 V, AC	199 190 359	197.00
110 V, 50-60 Hz	199 190 547	117.00	199 190 555	169.00	230 V, AC	199 190 360 ^	197.00
Voltage	Type 5470 4/2-way				Voltage		
	DA	USD					
230 V, AC/DC	199 190 302	241.00			48 V, AC	199 190 361 ^	197.00
115 V, AC/DC	199 190 303	241.00			24 V, AC	199 190 358 ^	197.00
24 V, AC/DC	199 190 304	241.00			24 V, DC	199 190 357	197.00

Speed control pilot solenoid

NAMUR Connector Plate

d [mm]	Size [inch]	Part No.	USD
16 - 63	3/8 - 2	199 190 378	68.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

DIN Plug

Description	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	19.00
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

Type	Size [inch]	Without Stroke Limiter		Fail Safe to Open (FO)		Double Acting (DA)	
		Fail Safe to Close (FC) Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 127	270.00	198 150 128	270.00	198 150 129	245.00
PA 21	1 1/4 - 2	198 150 130	320.00	198 150 131	320.00	198 150 132	282.00
Type	Size [inch]	With Stroke Limiter		Fail Safe to Open (FO)		Double Acting (DA)	
		Fail Safe to Close (FC) Part No.	USD	Part No.	USD	Part No.	USD
PA 11	3/8 - 1	198 150 144 ^	383.00	198 150 145 *	383.00	198 150 146 *	336.00
PA 21	1 1/4 - 2	198 150 147 ^	435.00	198 150 148 *	435.00	198 150 149 *	377.00

Limit stroke up to 45°

Actuator Intermediate Kit

d [mm]	Size [inch]	Vertical		Horizontal	
		Part No.	USD	Part No.	USD
16 - 20	3/8 - 1/2	167 484 945	127.00	167 484 941	127.00
25 - 32	3/4 - 1	167 484 946	141.00	167 484 942	141.00
40 - 50	1 1/4 - 1 1/2	167 484 947	152.00	167 484 943	152.00
63	2	167 484 948	169.00	167 484 944	169.00

BSPT to NPT Brass Adapter

Size	Part No.	USD
1/8" male BSPT to 1/8" female NPT	150 101 038	5.00
1/4" male BSPT 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	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 240 002	675.00	199 240 022	765.00	199 240 042 ^	675.00	199 240 062 ^	765.00
75 - 2 ½	199 240 003	773.00	199 240 023	859.00	199 240 043 ^	773.00	199 240 063 ^	859.00
90 - 3	199 240 004	773.00	199 240 024	859.00	199 240 044 ^	773.00	199 240 064 ^	859.00
110 - 4	199 240 005	788.00	199 240 025	885.00	199 240 045 ^	788.00	199 240 065 ^	885.00
140 - 5	199 240 006	1,208.00	199 240 026	1,334.00	199 240 046 ^	1,208.00	199 240 066 ^	1,334.00
160 - 6	199 240 007	1,208.00	199 240 027	1,334.00	199 240 047 ^	1,208.00	199 240 067 ^	1,334.00
225 - 8	199 240 008	1,508.00	199 240 028	1,578.00	199 240 048 ^	1,508.00	199 240 068 ^	1,578.00
280 - 10	199 240 009	4,080.00	199 240 029	4,577.00	199 240 049 ^	4,080.00	199 240 069 ^	4,577.00
315 - 12	199 240 010	4,810.00	199 240 030	5,715.00	199 240 050 ^	4,810.00	199 240 070 ^	5,715.00

d - Size [mm]-[inch]	Double Acting (DA)			
	EPDM	USD	FKM	USD
63 - 2	199 240 082 ^	563.00	199 240 102 ^	653.00
75 - 2 ½	199 240 083 ^	599.00	199 240 103 ^	688.00
90 - 3	199 240 084	599.00	199 240 104	688.00
110 - 4	199 240 085	621.00	199 240 105	717.00
140 - 5	199 240 086 ^	845.00	199 240 106 ^	970.00
160 - 6	199 240 087	845.00	199 240 107	970.00
225 - 8	199 240 088	1,022.00	199 240 108	1,094.00
280 - 10	199 240 089 ^	3,002.00	199 240 109 ^	3,498.00
315 - 12	199 240 090 ^	3,514.00	199 240 110 ^	4,423.00



CPVC

C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 240 162	825.00	199 240 182	877.00	199 240 202 ^	825.00	199 240 222 ^	877.00
75 - 2 ½	199 240 163	1,022.00	199 240 183	1,094.00	199 240 203 ^	1,022.00	199 240 223 ^	1,094.00
90 - 3	199 240 164	1,022.00	199 240 184	1,094.00	199 240 204 ^	1,022.00	199 240 224 ^	1,094.00
110 - 4	199 240 165	1,094.00	199 240 185	1,171.00	199 240 205 ^	1,094.00	199 240 225 ^	1,171.00
140 - 5	199 240 166	1,642.00	199 240 186	1,734.00	199 240 206 ^	1,642.00	199 240 226 ^	1,734.00
160 - 6	199 240 167	1,642.00	199 240 187	1,734.00	199 240 207 ^	1,642.00	199 240 227 ^	1,734.00
225 - 8	199 240 168	1,980.00	199 240 188	2,095.00	199 240 208 ^	1,980.00	199 240 228 ^	2,095.00
280 - 10	150 240 169	5,163.00	150 240 189	5,360.00	150 240 209 ^	5,163.00	150 240 229 ^	5,360.00
315 - 12	150 240 170	6,399.00	150 240 190	6,378.00	150 240 210 ^	6,399.00	150 240 230 ^	6,378.00

d - Size [mm]-[inch]	Double Acting (DA)			
	EPDM	USD	FKM	USD
63 - 2	199 240 242 ^	715.00	199 240 262 ^	763.00
75 - 2 ½	199 240 243 ^	850.00	199 240 263 ^	919.00
90 - 3	199 240 244	850.00	199 240 264	919.00
110 - 4	199 240 245	924.00	199 240 265	1,001.00
140 - 5	199 240 246 ^	1,279.00	199 240 266 ^	1,369.00
160 - 6	199 240 247	1,279.00	199 240 267	1,369.00
225 - 8	199 240 248	1,490.00	199 240 268	1,608.00
280 - 10	150 240 249 ^	4,083.00	150 240 269 ^	4,083.00
315 - 12	150 240 250 ^	5,113.00	150 240 270 ^	5,114.00




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

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	FKM	USD	EPDM	USD	FKM	USD
63 - 2	199 240 282	765.00	199 240 302	811.00	199 240 322 ^	726.00	199 240 342 ^	811.00
75 - 2 ½	199 240 283	837.00	199 240 303	921.00	199 240 323 ^	837.00	199 240 343 ^	921.00
90 - 3	199 240 284	837.00	199 240 304	921.00	199 240 324 ^	837.00	199 240 344 ^	921.00
110 - 4	199 240 285	897.00	199 240 305	1,001.00	199 240 325 ^	897.00	199 240 345 ^	1,001.00
140 - 5	199 240 286	1,296.00	199 240 306	1,501.00	199 240 326 ^	1,296.00	199 240 346 ^	1,501.00
160 - 6	199 240 287	1,296.00	199 240 307	1,501.00	199 240 327 ^	1,296.00	199 240 347 ^	1,501.00
225 - 8	199 240 288	1,542.00	199 240 308	1,714.00	199 240 328 ^	1,542.00	199 240 348 ^	1,714.00
280 - 10	199 240 289	3,841.00	199 240 309	4,234.00	199 240 329 ^	4,196.00	199 240 349 ^	4,580.00
315 - 12	199 240 290	4,861.00	199 240 310	5,371.00	199 240 330 ^	4,764.00	199 240 350 ^	5,275.00
d - Size [mm]-[inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
63 - 2	199 240 362 ^	598.00	199 240 382 ^	727.00				
75 - 2 ½	199 240 363 ^	725.00	199 240 383 ^	810.00				
90 - 3	199 240 364 ^	725.00	199 240 384 ^	810.00				
110 - 4	199 240 365 ^	792.00	199 240 385 ^	899.00				
140 - 5	199 240 366 ^	1,090.00	199 240 386 ^	1,294.00				
160 - 6	199 240 367 ^	1,090.00	199 240 387 ^	1,294.00				
225 - 8	199 240 368 ^	1,240.00	199 240 388 ^	1,414.00				
280 - 10	199 240 369 ^	2,985.00	199 240 389 ^	3,383.00				
315 - 12	199 240 370 ^	3,730.00	199 240 390 ^	4,241.00				

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

SYGEF® Standard PVDF


C

d - Size [mm]-[inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	FKM	USD	PTFE/FKM	USD	FKM	USD	PTFE/FKM	USD
63 - 2	199 240 462	1,200.00	199 240 522 ^	1,796.00	199 240 482 ^	1,200.00	199 240 542 ^	1,796.00
75 - 2 ½	199 240 463	1,618.00	199 240 523 ^	2,287.00	199 240 483 ^	1,618.00	199 240 543 ^	2,287.00
90 - 3	199 240 464	1,618.00	199 240 524 ^	2,287.00	199 240 484 ^	1,618.00	199 240 544 ^	2,287.00
110 - 4	199 240 465	1,802.00	199 240 525 ^	2,918.00	199 240 485 ^	1,802.00	199 240 545 ^	2,918.00
140 - 5	199 240 466	2,814.00	199 240 526 ^	4,173.00	199 240 486 ^	2,814.00	199 240 546 ^	4,173.00
160 - 6	199 240 467	2,814.00	199 240 527 ^	4,173.00	199 240 487 ^	2,814.00	199 240 547 ^	4,173.00
225 - 8	199 240 468	3,521.00	199 240 528 ^	6,413.00	199 240 488 ^	3,521.00	199 240 548 ^	6,413.00
280 - 10	199 240 469	6,245.00	199 240 529 ^	7,807.00	199 240 489 ^	6,624.00	199 240 549 ^	8,281.00
315 - 12	199 240 470	7,914.00	199 240 530 ^	9,891.00	199 240 490 ^	7,820.00	199 240 550 ^	9,776.00
d - Size [mm]-[inch]	Double Acting (DA)							
	FKM	USD	PTFE/FKM	USD				
63 - 2	199 240 502 ^	1,086.00	199 240 562 ^	1,488.00				
75 - 2 ½	199 240 503 ^	1,438.00	199 240 563 ^	1,716.00				
90 - 3	199 240 504 ^	1,438.00	199 240 564 ^	1,716.00				
110 - 4	199 240 505 ^	1,631.00	199 240 565 ^	2,165.00				
140 - 5	199 240 506 ^	2,433.00	199 240 566 ^	3,306.00				
160 - 6	199 240 507 ^	2,433.00	199 240 567 ^	3,306.00				
225 - 8	199 240 508 ^	3,013.00	199 240 568 ^	4,627.00				
280 - 10	199 240 509 ^	5,352.00	199 240 569 ^	6,689.00				
315 - 12	199 240 510 ^	6,742.00	199 240 570 ^	8,427.00				

Type 244 Pneumatically Actuated Lug Butterfly Valve


PVC

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	199 244 002	1,124.00	199 244 022	1,200.00	199 244 042 ^	1,124.00	199 244 062 ^	1,200.00
2 ½	199 244 003	1,218.00	199 244 023	1,299.00	199 244 043 ^	1,218.00	199 244 063 ^	1,299.00
3	199 244 004	1,218.00	199 244 024	1,299.00	199 244 044 ^	1,218.00	199 244 064 ^	1,299.00
4	199 244 005	1,703.00	199 244 025	1,835.00	199 244 045 ^	1,703.00	199 244 065 ^	1,835.00
5	199 244 006	2,361.00	199 244 026	2,571.00	199 244 046 ^	2,361.00	199 244 066 ^	2,571.00
6	199 244 007	2,361.00	199 244 027	2,571.00	199 244 047 ^	2,361.00	199 244 067 ^	2,571.00
8	199 244 008	3,009.00	199 244 028	3,283.00	199 244 048 ^	3,009.00	199 244 068 ^	3,283.00
10	199 244 009	5,065.00	199 244 029	5,093.00	199 244 049 ^	5,506.00	199 244 069 ^	5,529.00
12	199 244 010	5,908.00	199 244 030	6,421.00	199 244 050 ^	5,755.00	199 244 070 ^	6,303.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
2	199 244 082 ^	1,010.00	199 244 102 ^	1,089.00				
2 ½	199 244 083 ^	1,044.00	199 244 103 ^	1,128.00				
3	199 244 084	1,044.00	199 244 104	1,128.00				
4	199 244 085	1,536.00	199 244 105	1,667.00				
5	199 244 086 ^	1,997.00	199 244 106 ^	2,207.00				
6	199 244 087	1,997.00	199 244 107	2,207.00				
8	199 244 088	2,522.00	199 244 108	2,799.00				
10	199 244 089 ^	3,986.00	199 244 109 ^	4,015.00				
12	199 244 090 ^	4,458.00	199 244 110 ^	5,011.00				

CPVC

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
2	199 244 162	1,351.00	199 244 182	1,467.00	199 244 202 ^	1,240.00	199 244 222 ^	1,354.00
2 ½	199 244 163	1,481.00	199 244 183	1,555.00	199 244 203 ^	1,309.00	199 244 223 ^	1,406.00
3	199 244 164	1,481.00	199 244 184	1,555.00	199 244 204 ^	1,309.00	199 244 224 ^	1,406.00
4	199 244 165	2,161.00	199 244 185	2,382.00	199 244 205 ^	1,991.00	199 244 225 ^	2,211.00
5	199 244 166	2,991.00	199 244 186	3,301.00	199 244 206 ^	2,628.00	199 244 226 ^	2,936.00
6	199 244 167	2,991.00	199 244 187	3,301.00	199 244 207 ^	2,628.00	199 244 227 ^	2,936.00
8	199 244 168	3,853.00	199 244 188	4,280.00	199 244 208 ^	3,366.00	199 244 228 ^	3,793.00
10	199 244 169	8,345.00	199 244 189	9,268.00	199 244 209 ^	7,286.00	199 244 229 ^	8,215.00
12	199 244 170	9,924.00	199 244 190	10,374.00	199 244 210 ^	8,665.00	199 244 230 ^	9,194.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	FKM	USD				
2	199 244 242 ^	1,351.00	199 244 262 ^	1,467.00				
2 ½	199 244 243 ^	1,481.00	199 244 263 ^	1,555.00				
3	199 244 244	1,481.00	199 244 264	1,555.00				
4	199 244 245	2,161.00	199 244 265	2,382.00				
5	199 244 246 ^	2,991.00	199 244 266 ^	3,301.00				
6	199 244 247	2,991.00	199 244 267	3,301.00				
8	199 244 248	3,853.00	199 244 268	4,280.00				
10	199 244 249 ^	8,345.00	199 244 269 ^	9,268.00				
12	199 244 250 ^	9,924.00	199 244 270 ^	10,374.00				

PTFE seals available upon request - Please call Inside 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	FKM	USD	EPDM	USD	FKM	USD
2	199 244 282	1,454.00	199 244 302	1,486.00	199 244 322 ^	1,416.00	199 244 342 ^	1,486.00
2 ½	199 244 283	1,748.00	199 244 303	1,841.00	199 244 323 ^	1,748.00	199 244 343 ^	1,841.00
3	199 244 284	1,748.00	199 244 304	1,841.00	199 244 324 ^	1,748.00	199 244 344 ^	1,841.00
4	199 244 285	2,094.00	199 244 305	2,165.00	199 244 325 ^	2,094.00	199 244 345 ^	2,165.00
5	199 244 286	3,077.00	199 244 306	3,796.00	199 244 326 ^	3,077.00	199 244 346 ^	3,796.00
6	199 244 287	3,077.00	199 244 307	3,796.00	199 244 327 ^	3,077.00	199 244 347 ^	3,796.00
8	199 244 288	3,841.00	199 244 308	4,153.00	199 244 328 ^	3,841.00	199 244 348 ^	4,153.00
10	199 244 289	5,350.00	199 244 309	6,315.00	199 244 329 ^	5,705.00	199 244 349 ^	6,659.00
12	199 244 290	6,879.00	199 244 310	8,256.00	199 244 330 ^	6,781.00	199 244 350 ^	8,162.00

Size [inch]	Double Acting (DA)			
	EPDM	USD	FKM	USD
2	199 244 362 ^	1,288.00	199 244 382 ^	1,401.00
2 ½	199 244 363 ^	1,637.00	199 244 383 ^	1,731.00
3	199 244 364 ^	1,637.00	199 244 384 ^	1,731.00
4	199 244 365 ^	1,988.00	199 244 385 ^	2,063.00
5	199 244 366 ^	2,869.00	199 244 386 ^	3,590.00
6	199 244 367 ^	2,869.00	199 244 387 ^	3,590.00
8	199 244 368 ^	3,539.00	199 244 388 ^	3,851.00
10	199 244 369 ^	4,493.00	199 244 389 ^	5,464.00
12	199 244 370 ^	5,747.00	199 244 390 ^	7,127.00



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

SYGEF® Standard PVDF

C

Size [inch]	Fail Save to Close (FC)				Fail Save to Open (FO)			
	FKM	USD	PTFE/FKM	USD	FKM	USD	PTFE/FKM	USD
2	199 244 462	1,650.00	199 244 522 ^	2,423.00	199 244 482 ^	1,650.00	199 244 542 ^	2,423.00
2 ½	199 244 463	1,994.00	199 244 523 ^	2,749.00	199 244 483 ^	1,994.00	199 244 543 ^	2,749.00
3	199 244 464	1,994.00	199 244 524 ^	2,749.00	199 244 484 ^	1,994.00	199 244 544 ^	2,749.00
4	199 244 465	2,278.00	199 244 525 ^	4,000.00	199 244 485 ^	2,278.00	199 244 545 ^	4,000.00
5	199 244 466	3,893.00	199 244 526 ^	6,338.00	199 244 486 ^	3,893.00	199 244 546 ^	6,338.00
6	199 244 467	3,893.00	199 244 527 ^	6,338.00	199 244 487 ^	3,893.00	199 244 547 ^	6,338.00
8	199 244 468	4,370.00	199 244 528 ^	11,009.00	199 244 488 ^	4,370.00	199 244 548 ^	11,009.00
10	199 244 469	7,085.00	199 244 529 ^	11,266.00	199 244 489 ^	7,464.00	199 244 549 ^	11,266.00
12	199 244 470	9,354.00	199 244 530 ^	14,417.00	199 244 490 ^	9,262.00	199 244 550 ^	14,417.00

Size [inch]	Double Acting (DA)			
	FKM	USD	PTFE/FKM	USD
2	199 244 502 ^	1,537.00	199 244 562 ^	2,117.00
2 ½	199 244 503 ^	1,872.00	199 244 563 ^	2,439.00
3	199 244 504 ^	1,934.00	199 244 564 ^	2,439.00
4	199 244 505 ^	2,107.00	199 244 565 ^	3,247.00
5	199 244 506 ^	3,512.00	199 244 566 ^	5,471.00
6	199 244 507 ^	3,512.00	199 244 567 ^	5,471.00
8	199 244 508 ^	3,861.00	199 244 568 ^	9,224.00
10	199 244 509 ^	6,190.00	199 244 569 ^	9,438.00
12	199 244 510 ^	8,183.00	199 244 570 ^	12,077.00



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 ^	453.00	150 563 032	514.00	150 563 012 ^	453.00	150 563 042 ^	514.00
75 - 2 ½	150 563 003 ^	470.00	150 563 033	639.00	150 563 013 ^	470.00	150 563 043 ^	581.00
90 - 3	150 563 004 ^	470.00	150 563 034	639.00	150 563 014 ^	470.00	150 563 044 ^	581.00
110 - 4	150 563 005 ^	585.00	150 563 035	643.00	150 563 015 ^	585.00	150 563 045 ^	643.00
140 - 5	150 563 006 ^	807.00	150 563 036	943.00	150 563 016 ^	807.00	150 563 046 ^	943.00
160 - 6	150 563 007 ^	807.00	150 563 037	943.00	150 563 017 ^	807.00	150 563 047 ^	943.00
225 - 8	150 563 008 ^	1,122.00	150 563 038	1,305.00	150 563 018 ^	1,122.00	150 563 048 ^	1,305.00
280 - 10	-	-	150 563 039	2,542.00	-	-	150 563 049 ^	2,878.00
315 - 12	-	-	150 563 040	3,583.00	-	-	150 563 050 ^	3,495.00

d - Size [mm]-[inch]	Double Acting (DA)			
	75 PSI	USD	150 PSI	USD
63 - 2	150 563 022 ^	421.00	150 563 052 ^	419.00
75 - 2 ½	150 563 023 ^	439.00	150 563 053 ^	452.00
90 - 3	150 563 024 ^	439.00	150 563 054	452.00
110 - 4	-	-	150 563 055	501.00
140 - 5	-	-	150 563 056 ^	683.00
160 - 6	-	-	150 563 057	683.00
225 - 8	-	-	150 563 058	888.00
280 - 10	-	-	150 563 059 ^	1,769.00
315 - 12	-	-	150 563 060 ^	2,553.00



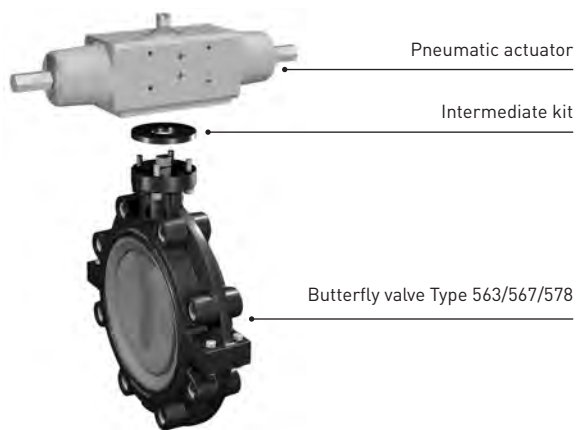
For water use only

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 **199240007** (6" Type 240 Ball Valve PVC/EPDM) assembled with **199190282** (Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S199240007** 6" Type 240 Ball Valve PVC/EPDM assembled with limit switch 199190282
- PO item 2: **199190282** Mechanical Limit Switches Ag-Ni



Optional Actuator Accessories

Type 240-244

- Limit Switch Reading off Actuator
- Integrated Limit Switch Reading off Valve
- Positioner
- LCB Local control station
- Stem Extension
- Pilot Valve
- Declutchable Manual Override

Components by Valve Type

Size d [inch - mm]	Action	Type 240-244		
		Intermediate Kit w/o MO	Intermediate Kit w/ MO	Actuator
2 - 63	FC - FO	198000595	198000630	PA30
2 - 63	DA	198000595	198000630	PA35
2½ - 75	FC - FO	198000595	198000630	PA30
2½ - 75	DA	198000595	198000630	PA35
3 - 90	FC - FO	198000596	198000631	PA35
3 - 90	DA	198000595	198000630	PA40
4 - 110	FC - FO	198000600	198000628	PA40
4 - 110	DA	198000600	198000628	PA45
5 - 140	FC - FO	198000597	198000629	PA45
5 - 140	DA	198000600	198000628	PA50
6 - 160	FC - FO	198000600	198000625	PA50
6 - 160	DA	198000600	198000625	PA55
8 - 225	FC - FO	198000598	198000627	PA55
8 - 225	DA	198000600	198000625	PA55
10 - 280	FC	198000730	NA	PA65
10 - 280	FO	198000730	NA	PA70
10 - 280	DA	198000731	NA	PA65
12 - 315	FC - FO	198000730	NA	PA70
12 - 315	DA	198000731	NA	PA70

NA = Not Applicable

Pneumatic Actuators


Part number	Description
198811025	PA30 FO Pneumatic Actuator
198800757	PA30 FC Pneumatic Actuator
198811026	PA35 FO Pneumatic Actuator
198800037	PA35 FC Pneumatic Actuator
198800758	PA35 DA Pneumatic Actuator
198811027	PA40 FO Pneumatic Actuators
198800728	PA40 FC Pneumatic Actuator
198800759	PA40 DA Pneumatic Actuator
198811028	PA45 FO Pneumatic Actuator
198800039	PA45 FC Pneumatic Actuator
198800040	PA45 DA Pneumatic Actuator
198811029	PA50 FO Pneumatic Actuator
198800729	PA50 FC Pneumatic Actuator
198811030	PA55 FO Pneumatic Actuator
198800041	PA55 FC 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	317.00	161 486 858	317.00
4 - 5	161 486 305	317.00	161 486 304	317.00
6 - 8	161 486 010	317.00	161 486 009	317.00




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 ^	731.00	161 486 856 ^	710.00	161 486 857 ^	731.00
4 - 5	161 486 301 ^	731.00	161 486 302 ^	710.00	161 486 303 ^	731.00
6 - 8	161 486 006 ^	731.00	161 486 007 ^	710.00	161 486 008 ^	731.00

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	346.00
10 - 30 V, 0.1 A	Inductive NPN	199 190 283 ^	558.00
10 - 30 V, 0.1 A	Inductive PNP	199 190 284 ^	558.00
5 - 15 V	Intrinsically Safe	199 190 285 ^	565.00
250 V, 5 A	Explosion Proof	199 190 286 ^	1104.00
30 V, 1 - 100 mA	Au	199 190 287	314.00




Does not require additional adapter kits.

Digital Electro-Pneumatic Positioner

C

Description	DSR 500-3	
	Part No	USD
Without Feedback	199 190 108 ^	1,679.00
Feedback Module	199 190 109 ^	342.00
Explosion Proof	150 190 108 *	1,911.00
With Digital Display	150 190 118 *	1,688.00



NAMUR Mounting Flange shown in table below is required for DSR 500-3 assemblies.

Configured for Fail Close valves standard. FO available upon request. DA configurations ONLY available for 199190108 units upon request.

NAMUR Mounting Flange

C

Size	Namur Mounting Flange	
	Part No.	USD
All	199 190 281	52.00

Required for DSR 500-3

Accessories Pneumatically Actuated Butterfly Valves



Pilot Solenoid Valve

Voltage	Solenoid PV94		Solenoid PV95 3/2-way	
	FC/FO	USD	FC/FO	USD
24 V DC	199 190 546	117.00	199 190 554	169.00
110 V, 50-60 Hz	199 190 547	117.00	199 190 555	169.00
Voltage	Type 5470 4/2-way			
	DA	USD		
230 V, AC/DC	199 190 302	241.00		
115 V, AC/DC	199 190 303	241.00		
24 V, AC/DC	199 190 304	241.00		

Voltage	Type MNL532 3/2-5/2-way	
	Part No.	USD
110 V, AC	199 190 359	197.00
230 V, AC	199 190 360 ^	197.00
48 V, AC	199 190 361 ^	197.00
24 V, AC	199 190 358 ^	197.00
24 V, DC	199 190 357	197.00

Speed control pilot solenoid

PV94 used to reduce open/close speed of PA butterfly valves

PV95 used for standard open/close applications

NAMUR Connector Plate

d [mm]	Size [Inch]	Series PA 30-55	
		Part No.	USD
63 - 315	2 - 12	199 190 275	61.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

DIN Plug

Description	Part No.	USD
5470 Cable Plug w/ Conduit	150 101 065	19.00
PV94/95 Female Plug Only	150 101 066	12.00

Stem Extension

Size [inch]	Description	SS 316/SS 316	USD
2 - 3	1st Foot	150 567 001 *	653.00
4 - 5	1st Foot	150 567 002 *	653.00
6	1st Foot	150 567 003 *	653.00
6	1st Foot	150 567 004 *	653.00
10 - 12	1st Foot	150 567 005 *	653.00
All	Charge per Additional Foot	-	119.00

Minimum length of 6 inches

Declutchable Manual Override

d - Size [mm]-[inch]	FC/FO	USD	DA	USD
63 - 2	198 000 630	910.00	198 000 630	910.00
75 - 2 ½	198 000 630	910.00	198 000 630	910.00
90 - 3	198 000 631	910.00	198 000 630	910.00
110 - 4	198 000 628	910.00	198 000 628	910.00
140 - 5	198 000 629	910.00	198 000 628	910.00
160 - 6	198 000 625	910.00	198 000 625	910.00
225 - 8	198 000 627	910.00	198 000 625	910.00



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	198 800 757	377.00	PA 30 DA	198 800 737 ^	271.00
PA 30 FO	198 811 025 ^	377.00	PA 35 DA	198 800 758 ^	270.00
PA 35 FC	198 800 037	434.00	PA 40 DA	198 800 759 ^	289.00
PA 35 FO	198 811 026 ^	434.00	PA 45 DA	198 800 040 ^	334.00
PA 40 FC	198 800 728	495.00	PA 55 DA	198 800 042 ^	463.00
PA 40 FO	198 811 027 ^	495.00	PA 60 DA	198 800 734 *	542.00
PA 45 FC	198 800 039	602.00	PA 65 DA	198 800 044 *	676.00
PA 45 FO	198 811 028 ^	602.00	PA 70 DA	198 800 735 *	857.00
PA 50 FC	198 800 729	751.00	PA 75 DA	198 800 046 *	1,070.00
PA 50 FO	198 811 029 ^	751.00	PA 80 DA	198 800 048 *	1,325.00
PA 55 FC	198 800 041	926.00	PA 85 DA	198 800 050 *	2,089.00
PA 55 FO	198 811 030 ^	926.00	PA 90 DA	198 800 051 *	2,889.00
PA 60 FC	198 800 730 *	1,390.00			
PA 65 FC	198 800 043 *	1,501.00			
PA 70 FC	198 800 731 *	1,955.00			
PA 70 FO	198 811 198 *	1,860.00			
PA 75 FC	198 800 045 *	2,686.00			
PA 80 FC	198 800 047 *	3,525.00			



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	85.00	PA 35	198 000 595	85.00
75 - 2 1/2	PA 30	198 000 595	85.00	PA 35	198 000 595	85.00
90 - 3	PA 35	198 000 596	101.00	PA 40	198 000 595	85.00
110 - 4	PA 40	198 000 600	140.00	PA 45	198 000 600	140.00
140 - 5	PA 45	198 000 597	116.00	PA 45	198 000 600	140.00
160 - 6	PA 50	198 000 600	140.00	PA 55	198 000 600	140.00
225 - 8	PA 55	198 000 598	116.00	PA 55	198 000 600	140.00
280 - 10	PA 65	198 000 730	96.00	PA 65	198 000 731	78.00
315 - 12	PA 70	198 000 730	96.00	PA 70	198 000 731	78.00

BSPT to NPT Brass Adapter

C

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

Comes standard with pneumatically actuated butterfly valves

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR Six PVC

C

Size [inch]	Fail Safe to Close (FC)	
	Socket	
	EPDM	USD
½	-	-
¾	161 614 613	291.00
1	161 614 614	335.00
1 ¼	161 614 615	416.00
1 ½	161 614 616	480.00
2	161 614 617	588.00



DIASTAR 604 PVC

C

Size [inch]	Fail Safe to Close (FC)	
	Socket	
	EPDM	USD
½	161 604 612	259.00

The DIASTAR 604 is rated for 6 bar combined pressure

CANNOT USE FEEDBACK/POSITIONER!



The DIASTAR Six is rated for 6 bar combined pressure

CANNOT USE FEEDBACK/POSITIONER!

DIASTAR Ten PVC

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 624 612	306.00	161 624 662	363.00	161 624 632	382.00
¾	161 624 613	343.00	161 624 663	389.00	161 624 633	411.00
1	161 624 614	395.00	161 624 664	415.00	161 624 634	437.00
1 ¼	161 624 615	490.00	161 624 665	522.00	161 624 635	546.00
1 ½	161 624 616	565.00	161 624 666	621.00	161 624 636	654.00
2	161 624 617	690.00	161 624 667	792.00	161 624 637	833.00

Size [inch]	ANSI Flanged					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 627 612 ^	354.00	161 627 662 ^	442.00	161 627 632 ^	465.00
¾	161 627 613 ^	380.00	161 627 663 ^	467.00	161 627 633 ^	493.00
1	161 627 614 ^	404.00	161 627 664 ^	497.00	161 627 634 ^	524.00
1 ¼	161 627 615 ^	504.00	161 627 665 ^	621.00	161 627 635 ^	654.00
1 ½	161 627 616 ^	604.00	161 627 666 ^	774.00	161 627 636 ^	816.00
2	161 627 617 ^	771.00	161 627 667 ^	949.00	161 627 637 ^	999.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR Ten PVC

C

Size [inch]	Fail Safe to Open (FO)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 644 612	229.00	161 644 662	260.00	161 644 632	289.00
¾	161 644 613	245.00	161 644 663	277.00	161 644 633	308.00
1	161 644 614	258.00	161 644 664	296.00	161 644 634	329.00
1 ¼	161 644 615	324.00	161 644 665	372.00	161 644 635	413.00
1 ½	161 644 616	408.00	161 644 666	467.00	161 644 636	520.00
2	161 644 617	498.00	161 644 667	562.00	161 644 637	624.00
Size [inch]	ANSI Flanged					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	½	161 647 612 ^	247.00	161 647 662 ^	316.00	161 647 632 ^
¾	161 647 613 ^	265.00	161 647 663 ^	339.00	161 647 633 ^	356.00
1	161 647 614 ^	282.00	161 647 664 ^	356.00	161 647 634 ^	377.00
1 ¼	161 647 615 ^	350.00	161 647 665 ^	450.00	161 647 635 ^	474.00
1 ½	161 647 616 ^	442.00	161 647 666 ^	564.00	161 647 636 ^	594.00
2	161 647 617 ^	535.00	161 647 667 ^	682.00	161 647 637 ^	718.00
Size [inch]	Double Acting (DA)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 654 612	229.00	161 654 662	274.00	161 654 632	289.00
¾	161 654 613	245.00	161 654 663	292.00	161 654 633	308.00
1	161 654 614	258.00	161 654 664	314.00	161 654 634	329.00
1 ¼	161 654 615	324.00	161 654 665	391.00	161 654 635	413.00
1 ½	161 654 616	408.00	161 654 666	494.00	161 654 636	520.00
2	161 654 617	498.00	161 654 667	594.00	161 654 637	624.00
Size [inch]	ANSI Flanged					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	½	161 657 612 ^	252.00	161 657 662 ^	339.00	161 657 632 ^
¾	161 657 613 ^	279.00	161 657 663 ^	366.00	161 657 633 ^	385.00
1	161 657 614 ^	287.00	161 657 664 ^	386.00	161 657 634 ^	407.00
1 ¼	161 657 615 ^	356.00	161 657 665 ^	481.00	161 657 635 ^	505.00
1 ½	161 657 616 ^	450.00	161 657 666 ^	609.00	161 657 636 ^	641.00
2	161 657 617 ^	545.00	161 657 667 ^	735.00	161 657 637 ^	774.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR TenPlus PVC

C

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	161 684 612	383.00	161 684 662	443.00	161 684 632	467.00
¾	161 684 613	398.00	161 684 663	467.00	161 684 633	493.00
1	161 684 614	426.00	161 684 664	499.00	161 684 634	526.00
1 ¼	161 684 615	519.00	161 684 665	627.00	161 684 635	659.00
1 ½	161 684 616	644.00	161 684 666	785.00	161 684 636	825.00
2	161 684 617	787.00	161 684 667	959.00	161 684 637	1,010.00

Size [inch]	ANSI Flanged					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	½	161 687 612 ^	419.00	161 687 662 ^	511.00	161 687 632 ^
¾	161 687 613 ^	446.00	161 687 663 ^	537.00	161 687 633 ^	566.00
1	161 687 614 ^	472.00	161 687 664 ^	575.00	161 687 634 ^	607.00
1 ¼	161 687 615 ^	593.00	161 687 665 ^	721.00	161 687 635 ^	759.00
1 ½	161 687 616 ^	743.00	161 687 666 ^	904.00	161 687 636 ^	951.00
2	161 687 617 ^	909.00	161 687 667 ^	1,101.00	161 687 637 ^	1,160.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 PVC

C

Size [inch]	ANSI Flanged					
	Fail Safe to Close (FC)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
2 ½	199 025 007 ^	1,518.00	199 025 067 ^	1,634.00	199 025 037 ^	1,720.00
3	199 025 128 ^	1,981.00	199 025 068 ^	2,267.00	199 025 158 ^	2,386.00
4	199 025 009 ^	2,406.00	199 025 069 ^	2,610.00	199 025 039 ^	2,748.00
6	199 025 130 ^	5,176.00	199 025 070 ^	5,951.00	-	-

Size [inch]	Fail Safe to Open (FO)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	2 ½	199 025 017 ^	1,045.00	199 025 077 ^	1,224.00	199 025 047 ^
3	199 025 138 ^	1,621.00	199 025 078 ^	1,892.00	199 025 168 ^	1,992.00
4	199 025 019 ^	2,200.00	199 025 079 ^	2,329.00	199 025 049 ^	2,452.00
6	199 025 140 ^	5,166.00	199 025 080 ^	5,889.00	199 025 170 ^	6,200.00

Size [inch]	Double Acting (DA)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	2 ½	199 025 027 ^	1,045.00	199 025 087 ^	1,224.00	199 025 057 ^
3	199 025 148 ^	1,621.00	199 025 088 ^	1,892.00	199 025 178 ^	1,992.00
4	199 025 029 ^	2,200.00	199 025 089 ^	2,329.00	199 025 059 ^	2,452.00
6	199 025 150 ^	5,166.00	199 025 090 ^	5,889.00	199 025 180 ^	6,200.00

The DIASTAR 025 is rated for 10 bar bidirectional pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR Six CPVC

C

Size [inch]	Fail Safe to Close (FC)	
	Socket	
	EPDM	USD
½	-	-
¾	163 614 613	349.00
1	163 614 614	383.00
1 ¼	163 614 615	480.00
1 ½	163 614 616	588.00
2	163 614 617	725.00



DIASTAR 604 CPVC

C

Size [inch]	Fail Safe to Close (FC)	
	Socket	
	EPDM	USD
½	163 604 612	331.00

The DIASTAR 604 is rated for 6 bar combined pressure

CANNOT USE FEEDBACK/POSITIONER!



The DIASTAR Six is rated for 6 bar combined pressure

CANNOT USE FEEDBACK/POSITIONER!

DIASTAR Ten CPVC

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	163 624 612	389.00	163 624 662	481.00	163 624 632	505.00
¾	163 624 613	411.00	163 624 663	505.00	163 624 633	532.00
1	163 624 614	450.00	163 624 664	557.00	163 624 634	585.00
1 ¼	163 624 615	565.00	163 624 665	698.00	163 624 635	734.00
1 ½	163 624 616	690.00	163 624 666	854.00	163 624 636	899.00
2	163 624 617	853.00	163 624 667	1,054.00	163 624 637	1,108.00

Size [inch]	ANSI Flanged					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	163 627 712 ^	420.00	163 627 762 ^	511.00	163 627 732 ^	536.00
¾	163 627 713 ^	447.00	163 627 763 ^	541.00	163 627 733 ^	568.00
1	163 627 714 ^	491.00	163 627 764 ^	596.00	163 627 734 ^	625.00
1 ¼	163 627 715 ^	619.00	163 627 765 ^	751.00	163 627 735 ^	788.00
1 ½	163 627 716 ^	755.00	163 627 766 ^	918.00	163 627 736 ^	964.00
2	163 627 717 ^	932.00	163 627 767 ^	1,132.00	163 627 737 ^	1,187.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR Ten CPVC

C

Size [inch]	Fail Safe to Open (FO)						
	Socket						
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	163 644 612	261.00	163 644 662	316.00	163 644 632	333.00	
¾	163 644 613	279.00	163 644 663	339.00	163 644 633	356.00	
1	163 644 614	295.00	163 644 664	356.00	163 644 634	377.00	
1 ¼	163 644 615	371.00	163 644 665	450.00	163 644 635	474.00	
1 ½	163 644 616	450.00	163 644 666	564.00	163 644 636	594.00	
2	163 644 617	545.00	163 644 667	682.00	163 644 637	718.00	
Size [inch]	ANSI Flanged						
Size [inch]	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	163 647 712	^ 292.00	163 647 662	^ 347.00	163 647 732	^ 364.00	
¾	163 647 713	^ 316.00	163 647 663	^ 376.00	163 647 733	^ 392.00	
1	163 647 714	^ 335.00	163 647 664	^ 396.00	163 647 734	^ 416.00	
1 ¼	163 647 715	^ 424.00	163 647 665	^ 504.00	163 647 735	^ 529.00	
1 ½	163 647 716	^ 513.00	163 647 666	^ 628.00	163 647 736	^ 658.00	
2	163 647 717	^ 625.00	163 647 667	^ 760.00	163 647 737	^ 796.00	
Size [inch]	Double Acting (DA)						
	Socket						
	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	163 654 612	263.00	163 654 662	316.00	163 654 632	333.00	
¾	163 654 613	284.00	163 654 663	339.00	163 654 633	356.00	
1	163 654 614	301.00	163 654 664	356.00	163 654 634	377.00	
1 ¼	163 654 615	375.00	163 654 665	450.00	163 654 635	474.00	
1 ½	163 654 616	472.00	163 654 666	564.00	163 654 636	594.00	
2	163 654 617	571.00	163 654 667	682.00	163 654 637	718.00	
Size [inch]	ANSI Flanged						
Size [inch]	EPDM	USD	FKM	USD	PTFE/EPDM	USD	
½	163 657 712	^ 294.00	163 657 762	^ 347.00	163 657 732	^ 364.00	
¾	163 657 713	^ 320.00	163 657 763	^ 376.00	163 657 733	^ 392.00	
1	163 657 714	^ 342.00	163 657 764	^ 396.00	163 657 734	^ 416.00	
1 ¼	163 657 715	^ 428.00	163 657 765	^ 504.00	163 657 735	^ 529.00	
1 ½	163 657 716	^ 536.00	163 657 766	^ 628.00	163 657 736	^ 658.00	
2	163 657 717	^ 650.00	163 657 767	^ 760.00	163 657 737	^ 796.00	

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR TenPlus CPVC

C

Size [inch]	Fail Safe to Close (FC)					
	Socket					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
½	163 684 612	454.00	163 684 662	532.00	163 684 632	561.00
¾	163 684 613	478.00	163 684 663	560.00	163 684 633	590.00
1	163 684 614	528.00	163 684 664	616.00	163 684 634	649.00
1 ¼	163 684 615	660.00	163 684 665	770.00	163 684 635	811.00
1 ½	163 684 616	809.00	163 684 666	946.00	163 684 636	996.00
2	163 684 617	998.00	163 684 667	1,142.00	163 684 637	1,203.00

Size [inch]	ANSI Flanged					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	½	163 687 712 ^	485.00	163 687 762 ^	563.00	163 687 732 ^
¾	163 687 713 ^	514.00	163 687 763 ^	596.00	163 687 733 ^	626.00
1	163 687 714 ^	567.00	163 687 764 ^	655.00	163 687 734 ^	688.00
1 ¼	163 687 715 ^	714.00	163 687 765 ^	824.00	163 687 735 ^	864.00
1 ½	163 687 716 ^	874.00	163 687 766 ^	1,009.00	163 687 736 ^	1,060.00
2	163 687 717 ^	1,075.00	163 687 767 ^	1,220.00	163 687 737 ^	1,281.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 CPVC

C

Size [inch]	ANSI Flanged					
	Fail Safe to Close (FC)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
2 ½	199 025 637 ^	1,562.00	199 025 471 ^	1,773.00	199 025 667 ^	1,902.00
3	199 025 698 ^	2,134.00	199 025 472 ^	2,334.00	199 025 728 ^	2,456.00
4	199 025 639 ^	2,649.00	199 025 473 ^	3,095.00	199 025 669 ^	3,257.00

Size [inch]	Fail Safe to Open (FO)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	2 ½	199 025 647 ^	1,339.00	-	-	199 025 677 ^
3	199 025 708 ^	1,769.00	199 025 475 ^	1,984.00	199 025 738 ^	2,089.00
4	199 025 649 ^	2,851.00	199 025 476 ^	2,785.00	199 025 679 ^	2,932.00

Size [inch]	Double Acting (DA)					
	EPDM	USD	FKM	USD	PTFE/EPDM	USD
	2 ½	199 025 657 ^	1,339.00	199 025 477 ^	1,565.00	199 025 687 ^
3	199 025 718 ^	1,769.00	199 025 478 ^	1,984.00	199 025 748 ^	2,089.00
4	199 025 659 ^	2,352.00	199 025 479 ^	2,592.00	199 025 689 ^	2,729.00

The DIASTAR 025 is rated for 10 bar bidirectional pressure

DIASTAR Pneumatically Actuated Diaphragm Valve



IR/Butt Fusion



ANSI Flanged



Socket Fusion Union



IR/Butt Fusion Union

DIASTAR Ten PROGEF® Standard PP

C

Fail Safe to Close (FC)										
d [mm]	IR/Butt Fusion				ANSI Flanged					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 625 112	339.00	167 625 132	497.00	167 627 712	^	400.00	167 627 732	^	558.00
25	167 625 113	395.00	167 625 133	514.00	167 627 713	^	478.00	167 627 733	^	599.00
32	167 625 114	452.00	167 625 134	598.00	167 627 714	^	550.00	167 627 734	^	697.00
40	167 625 115	514.00	167 625 135	717.00	167 627 715	^	647.00	167 627 735	^	849.00
50	167 625 116	623.00	167 625 136	875.00	167 627 716	^	773.00	167 627 736	^	1,024.00
63	167 625 117	778.00	167 625 137	1,112.00	167 627 717	^	981.00	167 627 737	^	1,315.00
d [mm]	Socket Fusion Union				IR/Butt Fusion Union					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 624 012	350.00	167 624 032	446.00	167 624 112	371.00	167 624 132	497.00		
25	167 624 013	403.00	167 624 033	475.00	167 624 113	430.00	167 624 133	514.00		
32	167 624 014	455.00	167 624 034	505.00	167 624 114	470.00	167 624 134	598.00		
40	167 624 015	523.00	167 624 035	630.00	167 624 115	539.00	167 624 135	717.00		
50	167 624 016	638.00	167 624 036	756.00	167 624 116	642.00	167 624 136	875.00		
63	167 624 017	785.00	167 624 037	968.00	167 624 117	824.00	167 624 137	1,112.00		
Fail Safe to Open (FO)										
d [mm]	IR/Butt Fusion				ANSI Flanged					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 645 112	265.00	167 645 132	343.00	167 647 712	^	326.00	167 647 732	^	403.00
25	167 645 113	285.00	167 645 133	446.00	167 647 713	^	368.00	167 647 733	^	530.00
32	167 645 114	300.00	167 645 134	497.00	167 647 714	^	398.00	167 647 734	^	595.00
40	167 645 115	376.00	167 645 135	556.00	167 647 715	^	506.00	167 647 735	^	686.00
50	167 645 116	472.00	167 645 136	685.00	167 647 716	^	623.00	167 647 736	^	834.00
63	167 645 117	570.00	167 645 137	941.00	167 647 717	^	774.00	167 647 737	^	1,144.00
d [mm]	Socket Fusion Union				IR/Butt Fusion Union					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 644 012	258.00	167 644 032	430.00	167 644 112	242.00	167 644 132	430.00		
25	167 644 013	278.00	167 644 033	446.00	167 644 113	261.00	167 644 133	446.00		
32	167 644 014	292.00	167 644 034	465.00	167 644 114	273.00	167 644 134	530.00		
40	167 644 015	371.00	167 644 035	642.00	167 644 115	346.00	167 644 135	650.00		
50	167 644 016	465.00	167 644 036	771.00	167 644 116	435.00	167 644 136	805.00		
63	167 644 017	561.00	167 644 037	941.00	167 644 117	525.00	167 644 137	711.00		

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve



IR/Butt Fusion



ANSI Flanged



Socket Fusion Union



IR/Butt Fusion Union

DIASTAR Ten PROGEF® Standard PP

C

d [mm]	Double Acting (DA)									
	IR/Butt Fusion				ANSI Flanged					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 655 112	265.00	167 655 132	343.00	167 657 712	^	326.00	167 657 732	^	403.00
25	167 655 113	285.00	167 655 133	446.00	167 657 713	^	368.00	167 657 733	^	530.00
32	167 655 114	300.00	167 655 134	497.00	167 657 714	^	398.00	167 657 734	^	595.00
40	167 655 115	376.00	167 655 135	556.00	167 657 715	^	506.00	167 657 735	^	686.00
50	167 655 116	472.00	167 655 136	685.00	167 657 716	^	623.00	167 657 736	^	834.00
63	167 655 117	570.00	167 655 137	941.00	167 657 717	^	774.00	167 657 737	^	1,144.00
d [mm]	Socket Fusion Union				IR/Butt Fusion Union					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
	20	167 654 012	258.00	167 654 032	430.00	167 654 112	242.00	167 654 132	430.00	
25	167 654 013	278.00	167 654 033	446.00	167 654 113	261.00	167 654 133	446.00		
32	167 654 014	292.00	167 654 034	465.00	167 654 114	273.00	167 654 134	530.00		
40	167 654 015	371.00	167 654 035	642.00	167 654 115	346.00	167 654 135	650.00		
50	167 654 016	465.00	167 654 036	771.00	167 654 116	435.00	167 654 136	805.00		
63	167 654 017	561.00	167 654 037	941.00	167 654 117	525.00	167 654 137	776.00		

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus PROGEF® Standard PP

C

d [mm]	Fail Safe to Close (FC)									
	IR/Butt Fusion				ANSI Flanged					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
20	167 685 112	442.00	167 685 132	573.00	167 687 712	^	503.00	167 687 732	^	634.00
25	167 685 113	467.00	167 685 133	611.00	167 687 713	^	550.00	167 687 733	^	696.00
32	167 685 114	497.00	167 685 134	648.00	167 687 714	^	595.00	167 687 734	^	746.00
40	167 685 115	623.00	167 685 135	816.00	167 687 715	^	750.00	167 687 735	^	944.00
50	167 685 116	782.00	167 685 136	1,018.00	167 687 716	^	933.00	167 687 736	^	1,169.00
63	167 685 117	952.00	167 685 137	1,241.00	167 687 717	^	1,156.00	167 687 737	^	1,445.00
d [mm]	Socket Fusion Union				IR/Butt Fusion Union					
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD		
	20	167 684 012	438.00	167 684 032	563.00	167 684 112	424.00	167 684 132	554.00	
25	167 684 013	465.00	167 684 033	596.00	167 684 113	451.00	167 684 133	590.00		
32	167 684 014	493.00	167 684 034	638.00	167 684 114	481.00	167 684 134	623.00		
40	167 684 015	619.00	167 684 035	800.00	167 684 115	601.00	167 684 135	786.00		
50	167 684 016	775.00	167 684 036	999.00	167 684 116	752.00	167 684 136	984.00		
63	167 684 017	945.00	167 684 037	1,218.00	167 684 117	920.00	167 684 137	1,201.00		

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR TenPlus PROGEF® Standard PP

C

Main Size [mm]	Branch Size [mm]	Valve Size [mm]	Zero Static - Fail Safe to Close (FC)			
			IR/Butt Fusion			
			EPDM	USD	PTFE/EPDM	USD
20	20	20	167 689 101 ^	855.00	167 689 301 ^	941.00
25	20	25	167 689 103 ^	855.00	167 689 303 ^	941.00
25	25	25	167 689 104 ^	855.00	167 689 304 ^	941.00
32	20	25	167 689 107 ^	941.00	167 689 307 ^	1,027.00
32	25	25	167 689 108 ^	941.00	167 689 308 ^	1,027.00
32	32	32	167 689 109 ^	941.00	167 689 309 ^	1,027.00
40	20	32	167 689 112 ^	1,027.00	167 689 312 ^	1,112.00
50	20	25	167 689 118 ^	1,112.00	167 689 318 ^	1,200.00
50	25	32	167 689 119 ^	1,112.00	167 689 319 ^	1,200.00
50	32	32	167 689 120 ^	1,112.00	167 689 320 ^	1,200.00
63	20	25	167 689 125 ^	1,283.00	167 689 325 ^	1,367.00
63	25	32	167 689 126 ^	1,283.00	167 689 326 ^	1,367.00
63	32	32	167 689 127 ^	1,283.00	167 689 327 ^	1,367.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure



DIASTAR 025 PROGEF® Standard PP

C

Size [inch]	ANSI Flanged							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD
2 ½	199 025 207 ^	1,838.00	199 025 237 ^	2,242.00	199 025 217 ^	1,169.00	199 025 247 ^	1,399.00
3	199 025 268 ^	2,301.00	199 025 298 ^	2,807.00	199 025 278 ^	1,747.00	199 025 308 ^	2,100.00
4	199 025 209 ^	2,738.00	199 025 239 ^	3,340.00	199 025 219 ^	2,332.00	199 025 249 ^	2,799.00
6	199 025 270 ^	6,026.00	-	-	199 025 280 ^	5,509.00	199 025 310 ^	6,612.00
Size [inch]	Double Acting (DA)							
	EPDM	USD	PTFE/EPDM	USD				
2 ½	199 025 227 ^	1,169.00	199 025 257 ^	1,399.00				
3	199 025 288 ^	1,747.00	199 025 318 ^	2,100.00				
4	199 025 229 ^	2,332.00	199 025 259 ^	2,799.00				
6	199 025 290 ^	5,509.00	199 025 320 ^	6,612.00				

The DIASTAR 025 is rated for 10 bar bidirectional pressure

DIASTAR Pneumatically Actuated Diaphragm Valve

DIASTAR Ten PROGEF® Natural PP

C

d [mm]	IR/Butt Fusion							
	Fail Safe to Close (FC)				Fail Safe to Open (FO)			
	EPDM	USD	PTFE/EPDM	USD	EPDM	USD	PTFE/EPDM	USD
20	168 625 112 ^	448.00	168 625 132 ^	548.00	168 645 112 ^	314.00	168 645 132 ^	408.00
25	168 625 113 ^	482.00	168 625 133 ^	566.00	168 645 113 ^	372.00	168 645 133 ^	469.00
32	168 625 114 ^	514.00	168 625 134 ^	633.00	168 645 114 ^	390.00	168 645 134 ^	491.00
40	168 625 115 ^	649.00	168 625 135 ^	827.00	168 645 115 ^	506.00	168 645 135 ^	664.00
50	168 625 116 ^	714.00	168 625 136 ^	926.00	168 645 116 ^	587.00	168 645 136 ^	782.00
63	168 625 117 ^	860.00	168 625 137 ^	1,112.00	168 645 117 ^	623.00	168 645 137 ^	858.00
d [mm]	Double Acting (DA)							
	EPDM	USD	PTFE/EPDM	USD				
	20	168 655 112 ^	314.00	168 655 132 ^	408.00			
25	168 655 113 ^	372.00	168 655 133 ^	469.00				
32	168 655 114 ^	390.00	168 655 134 ^	491.00				
40	168 655 115 ^	506.00	168 655 135 ^	664.00				
50	168 655 116 ^	587.00	168 655 136 ^	782.00				
63	168 655 117 ^	623.00	168 655 137 ^	858.00				



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Ten 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/EPDM	USD
20	20	20	168 629 101 ^	895.00	168 629 301 ^	978.00
25	20	25	168 629 103 ^	895.00	168 629 303 ^	978.00
25	25	25	168 629 104 ^	895.00	168 629 304 ^	978.00
32	20	25	168 629 107 ^	978.00	168 629 307 ^	1,060.00
32	25	25	168 629 108 ^	978.00	168 629 308 ^	1,060.00
32	32	32	168 629 109 ^	978.00	168 629 309 ^	1,060.00
40	20	32	168 629 112 ^	1,060.00	168 629 312 ^	1,060.00
50	20	25	168 629 118 ^	1,142.00	168 629 318 ^	1,142.00
50	25	32	168 629 119 ^	1,142.00	168 629 319 ^	1,142.00
50	32	32	168 629 120 ^	1,142.00	168 629 320 ^	1,142.00
63	20	25	168 629 125 ^	1,303.00	168 629 325 ^	1,303.00
63	25	32	168 629 126 ^	1,303.00	168 629 326 ^	1,303.00
63	32	32	168 629 127 ^	1,303.00	168 629 327 ^	1,303.00



The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR Pneumatically Actuated Diaphragm Valve



IR/Butt Fusion



ANSI Flanged



Socket Fusion Union



IR/Butt Fusion Union

DIASTAR Ten SYGEF® Standard PVDF

C

d [mm]	Fail Safe to Close (FC)							
	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union		ANSI Flanged	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 625 132	563.00	185 624 032	628.00	185 624 132	628.00	185 627 732	^ 628.00
25	185 625 133	623.00	185 624 033	667.00	185 624 133	667.00	185 627 733	^ 667.00
32	185 625 134	672.00	185 624 034	774.00	185 624 134	774.00	185 627 734	^ 774.00
40	185 625 135	837.00	185 624 035	1,114.00	185 624 135	1,114.00	185 627 735	^ 1,114.00
50	185 625 136	1,015.00	185 624 036	1,301.00	185 624 136	1,301.00	185 627 736	^ 1,301.00
63	185 625 137	1,248.00	185 624 037	1,618.00	185 624 137	1,618.00	185 627 737	^ 1,618.00
d [mm]	Fail Safe to Open (FO)							
	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union		ANSI Flanged	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 645 132	490.00	185 644 032	574.00	185 644 132	574.00	185 647 732	^ 851.00
25	185 645 133	523.00	185 644 033	619.00	185 644 133	619.00	185 647 733	^ 941.00
32	185 645 134	581.00	185 644 034	752.00	185 644 134	752.00	185 647 734	^ 990.00
40	185 645 135	810.00	185 644 035	1,023.00	185 644 135	1,023.00	185 647 735	^ 1,088.00
50	185 645 136	987.00	185 644 036	1,259.00	185 644 136	1,259.00	185 647 736	^ 1,322.00
63	185 645 137	1,349.00	185 644 037	1,584.00	185 644 137	1,584.00	185 647 737	^ 1,698.00
d [mm]	Double Acting (DA)							
	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union		ANSI Flanged	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 655 132	490.00	185 654 032	574.00	185 654 132	574.00	185 657 732	^ 810.00
25	185 655 133	523.00	185 654 033	619.00	185 654 133	619.00	185 657 733	^ 896.00
32	185 655 134	581.00	185 654 034	752.00	185 654 134	752.00	185 657 734	^ 944.00
40	185 655 135	810.00	185 654 035	1,023.00	185 654 135	1,023.00	185 657 735	^ 1,035.00
50	185 655 136	987.00	185 654 036	1,259.00	185 654 136	1,259.00	185 657 736	^ 1,259.00
63	185 655 137	1,349.00	185 654 037	1,584.00	185 654 137	1,584.00	185 657 737	^ 1,618.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus SYGEF® Standard PVDF

C

d [mm]	Fail Safe to Close (FC)							
	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union		ANSI Flanged	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
20	185 685 132	676.00	185 684 032	714.00	185 684 132	728.00	185 687 732	^ 987.00
25	185 685 133	720.00	185 684 033	752.00	185 684 133	775.00	185 687 733	^ 1,075.00
32	185 685 134	769.00	185 684 034	805.00	185 684 134	826.00	185 687 734	^ 1,123.00
40	185 685 135	967.00	185 684 035	1,013.00	185 684 135	1,038.00	185 687 735	^ 1,212.00
50	185 685 136	1,203.00	185 684 036	1,278.00	185 684 136	1,294.00	185 687 736	^ 1,473.00
63	185 685 137	1,467.00	185 684 037	1,542.00	185 684 137	1,577.00	185 687 737	^ 1,721.00

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR Pneumatically Actuated Diaphragm Valve



IR/Butt Fusion



025 ANSI Flanged



IR/Butt Fusion Union

DIASTAR 025 SYGEF® Standard PVDF

C

Size [inch]	ANSI Flanged					
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
2 1/2	199 025 327 ^	3,173.00	199 025 337 ^	2,538.00	199 025 347 ^	2,538.00
3	199 025 358 ^	4,137.00	199 025 368 ^	3,397.00	199 025 378 ^	3,397.00
4	199 025 329 ^	5,322.00	199 025 339 ^	4,262.00	199 025 349 ^	4,262.00
6	-	-	199 025 370 ^	8,235.00	199 025 380 ^	8,235.00

The DIASTAR 025 is rated for 10 bar combined pressure

DIASTAR Ten 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/EPDM	USD	PTFE/EPDM	USD
20	180 625 132	731.00	180 645 132	731.00	180 655 132	594.00
25	180 625 133	774.00	180 645 133	774.00	180 655 133	640.00
32	180 625 134	868.00	180 645 134	868.00	180 655 134	726.00
40	180 625 135	987.00	180 645 135	987.00	180 655 135	987.00
50	180 625 136	1,259.00	180 645 136	1,259.00	180 655 136	1,212.00
63	180 625 137	1,708.00	180 645 137	1,708.00	180 655 137	1,618.00

The DIASTAR Ten is rated for 10 bar combined pressure

DIASTAR TenPlus 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/FKM	USD	PTFE/EPDM	USD	PTFE/FKM	USD
20	181 685 132	831.00	181 685 152 *	874.00	181 684 132	875.00	181 684 152 *	918.00
25	181 685 133	886.00	181 685 153 *	930.00	181 684 133	933.00	181 684 153 *	980.00
32	181 685 134	943.00	181 685 154 *	989.00	181 684 134	988.00	181 684 154 *	1,037.00
40	181 685 135	1,184.00	181 685 155 *	1,244.00	181 684 135	1,243.00	181 684 155 *	1,305.00
50	181 685 136	1,481.00	181 685 156 *	1,555.00	181 684 136	1,556.00	181 684 156 *	1,633.00
63	181 685 137	1,807.00	181 685 157 *	1,897.00	181 684 137	1,896.00	181 684 157 *	1,991.00

The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

DIASTAR 025 SYGEF® Plus PVDF- HP

C

Size [inch]	ANSI Flanged					
	Fail Safe to Close (FC)		Fail Safe to Open (FO)		Double Acting (DA)	
	PTFE/EPDM	USD	PTFE/EPDM	USD	PTFE/EPDM	USD
2 1/2	199 025 387 ^	3,478.00	199 025 397 ^	2,724.00	199 025 407 ^	2,724.00
3	199 025 448 ^	4,522.00	199 025 458 ^	4,222.00	199 025 468 ^	4,222.00
4	199 025 389 ^	5,822.00	199 025 399 ^	5,388.00	199 025 409 ^	5,388.00
6	-	-	199 025 460 ^	13,109.00	199 025 470 ^	13,109.00

The DIASTAR 025 is rated for 10 bar combined 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			
			PTFE/EPDM	USD	PTFE/FKM	USD
20	20	20	181 689 301 ^	1,253.00	181 689 501 *	1,317.00
25	20	25	181 689 303 ^	1,263.00	181 689 503 *	1,325.00
25	25	25	181 689 304 ^	1,289.00	181 689 504 *	1,353.00
32	20	25	181 689 307 ^	1,279.00	181 689 507 *	1,343.00
32	25	25	181 689 308 ^	1,303.00	181 689 508 *	1,367.00
32	32	32	181 689 309 ^	1,288.00	181 689 509 *	1,352.00
40	20	32	181 689 312 ^	1,314.00	181 689 512 *	1,381.00
40	25	32	181 689 313 ^	1,333.00	181 689 513 *	1,399.00
40	32	32	181 689 314 ^	1,354.00	181 689 514 *	1,422.00
40	40	32	181 689 315 ^	1,367.00	181 689 515 *	1,436.00
50	20	25	181 689 318 ^	1,522.00	181 689 518 *	1,598.00
50	25	32	181 689 319 ^	1,635.00	181 689 519 *	1,717.00
50	32	32	181 689 320 ^	1,653.00	181 689 520 *	1,736.00
50	40	63	181 689 321 ^	1,690.00	181 689 521 *	1,774.00
50	50	63	181 689 322 ^	1,721.00	181 689 522 *	1,808.00
63	20	25	181 689 325 ^	1,770.00	181 689 525 *	1,858.00
63	25	32	181 689 326 ^	1,846.00	181 689 526 *	1,940.00
63	32	32	181 689 327 ^	1,898.00	181 689 527 *	1,993.00
63	40	63	181 689 328 ^	2,157.00	181 689 528 *	2,265.00
63	50	63	181 689 329 ^	2,246.00	181 689 529 *	2,358.00
63	63	63	181 689 330 ^	2,460.00	181 689 530 *	2,583.00
90	20	32	181 689 341 ^	3,044.00	181 689 541 *	3,196.00
90	25	32	181 689 342 ^	3,044.00	181 689 542 *	3,196.00
90	32	32	181 689 343 ^	3,044.00	181 689 543 *	3,196.00
90	50	63	181 689 345 ^	4,133.00	181 689 545 *	4,340.00
90	63	63	181 689 346 ^	4,133.00	181 689 546 *	4,340.00
110	20	32	181 689 351 ^	3,325.00	181 689 551 *	3,491.00
110	25	32	181 689 352 ^	3,325.00	181 689 552 *	3,491.00
110	32	32	181 689 353 ^	3,325.00	181 689 553 *	3,491.00
110	50	63	181 689 355 ^	4,668.00	181 689 555 *	4,902.00
110	63	63	181 689 356 ^	4,668.00	181 689 556 *	4,902.00



The DIASTAR TenPlus is rated for 10 bar bidirectional pressure

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 **161624614** (1" DIASTAR Ten Valve PVC/EPDM) assembled with **199190305** (Mechanical Limit Switches Ag-Ni) should be ordered:

- PO item 1: **S161624614** 1" DIASTAR Ten Valve PVC/EPDM assembled with limit switch 199190305
- PO item 2: **199190305** Mechanical Limit Switches Ag-Ni



Optional Actuator Accessories

DIASTAR

- Limit Switch
- Positioner
- Local control box
- Manual Override
- Stroke Limiter
- Pilot Valve

Components by Valve Type

Size d [inch - mm]	DIASTAR Ten				DIASTAR TenPlus	
	Compressor	Fail Close Actuator	Fail Open Actuator	Double Acting Actuator	Compressor	Fail Close Actuator
½ - 20	198000872	198151772	198151792	198151802	198000872	198153062
¾ - 25	198000873	198151773	198151793	198151803	198000873	198153063
1 - 32	198000874	198151774	198151794	198151804	198000874	198153064
1¼ - 40	198000875	198151775	198151795	198151805	198000875	198153065
1½ - 50	198000876	198151776	198151796	198151806	198000876	198153066
2 - 63	198000877	198151777	198151797	198151807	198000877	198153067

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	227.00
½ - 2	ER52 - 2	4 - 30 V, 1 - 100 mA	Au	199 190 306	247.00
½ - 2	ER52 - 3	5 - 30 V	NPN	199 190 307 ^	570.00
½ - 2	ER52 - 4	5 - 30 V	PNP	199 190 308 ^	570.00
½ - 2	ER52 - 5	8 V	Intrinsically Safe	199 190 309 ^	486.00
½ - 2	ER52 - 6	250 V, 5 A	Explosion Proof	199 190 405 ^	1,276.00
2 ½ - 6	ER53 - 1	250 V, 6 A	Ag Ni	199 190 293	306.00
2 ½ - 6	ER53 - 2	4 - 30 V, 1 - 100 mA	Au	199 190 297	352.00
2 ½ - 6	ER53 - 3	10 - 30 V	NPN	199 190 294 ^	827.00
2 ½ - 6	ER53 - 4	10 - 30 V	PNP	199 190 295 ^	827.00
2 ½ - 6	ER53 - 5	8 V	Intrinsically Safe	199 190 296 ^	589.00
2 ½ - 6	ER53 - 6	250 V, 5 A	Explosion Proof	199 190 298 ^	1,276.00



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

Does NOT required additional attachment kits if used without stroke limiter.

Digital Electro-Pneumatic Positioner

C

Description	DSR 500-1		DSR 500-2	
	½" - 2"	USD	2½" - 6"	USD
Without Feedback	199 190 001 ^	2,464.00	199 190 029 ^	2,737.00
Feedback Module	199 190 109 ^	342.00	-	-
Explosion Proof	150 190 001 *	3,328.00	-	-
With Digital Display	150 190 011 *	2,835.00	-	-



NAMUR Mounting Flange shown in table below is required for DSR 500-1 and DSR 500-2 assemblies.

Configured for Fail Close valves standard. FO available upon request.

DA configurations ONLY available for 199190108 and 199190029 units upon request.

Positioner Attachment Kit

C

Size [inch]	Actuator Type	Without Opt. Ind.	USD	With Opt. Ind.	USD
½ - 1	DIASTAR Ten	199 190 414	120.00	199 190 417	230.00
1 ¼ - 2	DIASTAR Ten	199 190 415	120.00	199 190 418	230.00
½ - ¾	DIASTAR TenPlus	199 190 414	120.00	199 190 417	230.00
1 - 2	DIASTAR TenPlus	199 190 415	120.00	199 190 418	230.00
2 ½ - 6	DIASTAR 025	199 190 416	120.00	199 190 419	230.00

Opt. Ind. - Optical position indicator

REQUIRED for DSR 500 Positioner

BSPT to NPT Brass Adapter

C

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

Does not come standard with DIASTAR Valves

Accessories 5-Series DIASTAR



Pilot Solenoid Valve

Voltage	Solenoid PV94		Solenoid PV95 3/2-way	
	FC/FO	USD	FC/FO	USD
24 V DC	199 190 546	117.00	199 190 554	169.00
110 V, 50-60 Hz	199 190 547	117.00	199 190 555	169.00
Voltage	Type 5470 4/2-way			
	DA	USD		
230 V, AC/DC	199 190 302	241.00		
115 V, AC/DC	199 190 303	241.00		
24 V, AC/DC	199 190 304	241.00		

Voltage	Type MNL532 3/2-5/2-way	
	Part No.	USD
110 V, AC	199 190 359	197.00
230 V, AC	199 190 360 ^	197.00
48 V, AC	199 190 361 ^	197.00
24 V, AC	199 190 358 ^	197.00
24 V, DC	199 190 357	197.00

Speed control pilot solenoid

NAMUR Connector Plate

Size [inch]	Part No.	USD
1/8	199 190 378	68.00
1/4	199 190 379	84.00

Required for Type 5470 and MLN532 Pilot Solenoid Valve

Stroke Limiter

Size [inch]	With Manual Override			
	DIASTAR Ten	USD	DIASTAR TenPlus	USD
1/2	199 190 381	41.00	199 190 382	41.00
3/4	199 190 382	41.00	199 190 382	41.00
1	199 190 382	41.00	199 190 383	48.00
1 1/4	199 190 383	48.00	199 190 384	58.00
1 1/2	199 190 384	58.00	199 190 385	55.00
2	199 190 384	58.00	199 190 385	55.00

Size [inch]	With Manual Override	
	DIASTAR 025	USD
2 1/2 - 3	199 190 318	116.00
4 - 6	199 190 319	154.00



Does NOT required additional attachment kits if used without limit switches.

Spare Parts 5-Series DIASTAR

Actuator



Size [inch]	Fail Close	USD	DIASTAR Ten				DIASTAR Ten Plus			
			Fail Open	USD	Double Acting	USD	Fail Close	USD		
1/2	198 151 772 ^	278.00	198 151 792 ^	218.00	198 151 802 ^	218.00	198 153 062 ^	377.00		
3/4	198 151 773 ^	292.00	198 151 793 ^	228.00	198 151 803 ^	228.00	198 153 063 ^	393.00		
1	198 151 774 ^	307.00	198 151 794 ^	244.00	198 151 804 ^	244.00	198 153 064 ^	415.00		
1 1/4	198 151 775 ^	402.00	198 151 795 ^	296.00	198 151 805 ^	296.00	198 153 065 ^	541.00		
1 1/2	198 151 776 ^	470.00	198 151 796 ^	344.00	198 151 806 ^	344.00	198 153 066 ^	635.00		
2	198 151 777 ^	523.00	198 151 797 ^	395.00	198 151 807 ^	395.00	198 153 067 ^	705.00		

Compressor Set


Size [inch]	Part No.	USD
1/2	198 000 872	54.00
3/4	198 000 873	54.00
1	198 000 874	56.00
1 1/4	198 000 875	56.00
1 1/2	198 000 876	61.00
2	198 000 877	61.00



Type 582 Pressure Reducing Valve


PVC

A

Size [inch]	Without Gauge							
	Socket				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	161 582 202	560.00	161 582 212	610.00	161 582 602 ^	643.00	161 582 612 ^	702.00
¾	161 582 203	755.00	161 582 213	808.00	161 582 603 ^	867.00	161 582 613 ^	933.00
1	161 582 204	879.00	161 582 214	937.00	161 582 604 ^	1,010.00	161 582 614 ^	1,080.00
1 ¼	161 582 205	944.00	161 582 215	1,005.00	161 582 605 ^	1,085.00	161 582 615 ^	1,157.00
1 ½	161 582 206	1,026.00	161 582 216	1,064.00	161 582 606 ^	1,179.00	161 582 616 ^	1,223.00
2	161 582 207	1,292.00	161 582 217	1,324.00	161 582 607 ^	1,485.00	161 582 617 ^	1,522.00
Size [inch]	With Gauge							
	Socket							
	EPDM	USD	FKM	USD				
½	161 582 222	616.00	161 582 232	672.00				
¾	161 582 223	829.00	161 582 233	889.00				
1	161 582 224	967.00	161 582 234	1,032.00				
1 ¼	161 582 225	1,037.00	161 582 235	1,106.00				
1 ½	161 582 226	1,129.00	161 582 236	1,171.00				
2	161 582 227	1,421.00	161 582 237	1,456.00				

CPVC

A

Size [inch]	Without Gauge							
	Socket				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	163 582 202	886.00	163 582 212	904.00	163 582 602 ^	851.00	163 582 612 ^	928.00
¾	163 582 203	1,233.00	163 582 213	1,291.00	163 582 603 ^	1,147.00	163 582 613 ^	1,222.00
1	163 582 204	1,509.00	163 582 214	1,573.00	163 582 604 ^	1,336.00	163 582 614 ^	1,412.00
1 ¼	163 582 205	1,736.00	163 582 215	1,800.00	163 582 605 ^	1,432.00	163 582 615 ^	1,530.00
1 ½	163 582 206	1,832.00	163 582 216	1,900.00	163 582 606 ^	1,560.00	163 582 616 ^	1,618.00
2	163 582 207	2,752.00	163 582 217	2,822.00	163 582 607 ^	1,963.00	163 582 617 ^	2,014.00
Size [inch]	With Gauge							
	Socket							
	EPDM	USD	FKM	USD				
½	163 582 222	975.00	163 582 232	995.00				
¾	163 582 223	1,357.00	163 582 233	1,420.00				
1	163 582 224	1,661.00	163 582 234	1,731.00				
1 ¼	163 582 225	1,910.00	163 582 235	1,984.00				
1 ½	163 582 226	2,016.00	163 582 236	2,092.00				
2	163 582 227	3,028.00	163 582 237	3,107.00				


Type 582 Pressure Reducing Valve

PROGEF® Standard PP


A

d [mm]	Without Gauge							
	IR/Butt Fusion				Socket Fusion Union			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	167 582 002	640.00	167 582 012	715.00	167 582 102	800.00	167 582 112	844.00
25	167 582 003	845.00	167 582 013	891.00	167 582 103	1,056.00	167 582 113	1,105.00
32	167 582 004	976.00	167 582 014	1,035.00	167 582 104	1,221.00	167 582 114	1,274.00
40	167 582 005	1,133.00	167 582 015	1,194.00	167 582 105	1,417.00	167 582 115	1,473.00
50	167 582 006	1,163.00	167 582 016	1,238.00	167 582 106	1,454.00	167 582 116	1,530.00
63	167 582 007	1,423.00	167 582 017	1,503.00	167 582 107	1,779.00	167 582 117	1,879.00

d [mm]	IR/Butt Fusion Union			
	EPDM	USD	FKM	USD
20	167 582 502	880.00	167 582 512	887.00
25	167 582 503	1,161.00	167 582 513	1,206.00
32	167 582 504	1,343.00	167 582 514	1,390.00
40	167 582 505	1,558.00	167 582 515	1,610.00
50	167 582 506	1,600.00	167 582 516	1,672.00
63	167 582 507	1,958.00	167 582 517	2,066.00



IR/Butt Fusion




Socket Fusion Union

SYGEF® Standard PVDF

A

d [mm]	Without Gauge					
	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union	
	FKM	USD	FKM	USD	FKM	USD
20	185 582 012	1,425.00	185 582 112	1,710.00	185 582 512	1,797.00
25	185 582 013	2,152.00	185 582 113	2,581.00	185 582 513	2,710.00
32	185 582 014	2,379.00	185 582 114	2,737.00	185 582 514	2,873.00
40	185 582 015	2,737.00	185 582 115	3,283.00	185 582 515	3,448.00
50	185 582 016	3,087.00	185 582 116	3,551.00	185 582 516	3,728.00
63	185 582 017	3,860.00	185 582 117	4,631.00	185 582 517	5,326.00




Fusion Spigot

SYGEF® Plus PVDF- HP

A

d [mm]	Without Gauge			
	IR/Butt Fusion		IR/Butt Fusion Union	
	PTFE	USD	PTFE	USD
20	180 582 012	2,137.00	180 582 512	2,245.00
25	180 582 013	3,098.00	180 582 513	3,117.00
32	180 582 014	3,422.00	180 582 514	3,591.00
40	180 582 015	3,776.00	180 582 515	4,137.00
50	180 582 016	4,261.00	180 582 516	4,474.00
63	180 582 017	5,789.00	180 582 517	6,656.00



IR/Butt Fusion Union

Type 586 Pressure Retaining Valve

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



PVC Socket

CPVC Socket

A

PVC

Size [inch]	Socket				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	161 586 202	381.00	161 586 212	420.00	161 586 602 ^	438.00	161 586 612 ^	477.00
¾	161 586 203	453.00	161 586 213	497.00	161 586 603 ^	523.00	161 586 613 ^	565.00
1	161 586 204	523.00	161 586 214	567.00	161 586 604 ^	600.00	161 586 614 ^	645.00
1 ¼	161 586 205	627.00	161 586 215	674.00	161 586 605 ^	720.00	161 586 615 ^	768.00
1 ½	161 586 206	703.00	161 586 216	756.00	161 586 606 ^	809.00	161 586 616 ^	861.00
2	161 586 207	863.00	161 586 217	927.00	161 586 607 ^	995.00	161 586 617 ^	1,059.00

CPVC

A

Size [inch]	Socket				ANSI Flanged			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
½	163 586 202	604.00	163 586 212	644.00	163 586 602 ^	696.00	163 586 612 ^	735.00
¾	163 586 203	712.00	163 586 213	755.00	163 586 603 ^	818.00	163 586 613 ^	860.00
1	163 586 204	827.00	163 586 214	874.00	163 586 604 ^	951.00	163 586 614 ^	997.00
1 ¼	163 586 205	945.00	163 586 215	992.00	163 586 605 ^	1,086.00	163 586 615 ^	1,133.00
1 ½	163 586 206	1,061.00	163 586 216	1,113.00	163 586 606 ^	1,219.00	163 586 616 ^	1,272.00
2	163 586 207	1,290.00	163 586 217	1,354.00	163 586 607 ^	1,483.00	163 586 617 ^	1,547.00

PROGEF® Standard PP

A

Size [inch]	IR/Butt Fusion				Socket Fusion Union			
	EPDM	USD	FKM	USD	EPDM	USD	FKM	USD
20	167 586 002	492.00	167 586 012	537.00	167 586 102	579.00	167 586 112	626.00
25	167 586 003	549.00	167 586 013	603.00	167 586 103	668.00	167 586 113	721.00
32	167 586 004	627.00	167 586 014	686.00	167 586 104	783.00	167 586 114	844.00
40	167 586 005	689.00	167 586 015	773.00	167 586 105	861.00	167 586 115	925.00
50	167 586 006	755.00	167 586 016	822.00	167 586 106	944.00	167 586 116	1,010.00
63	167 586 007	963.00	167 586 017	1,034.00	167 586 107	1,203.00	167 586 117	1,274.00

Size [inch]	IR/Butt Fusion Union			
	EPDM	USD	FKM	USD
20	167 586 502	638.00	167 586 512	684.00
25	167 586 503	735.00	167 586 513	789.00
32	167 586 504	861.00	167 586 514	921.00
40	167 586 505	948.00	167 586 515	1,011.00
50	167 586 506	1,037.00	167 586 516	1,104.00
63	167 586 507	1,323.00	167 586 517	1,394.00



IR/Butt Fusion



Socket Fusion Union

SYGEF® Standard PVDF

A

Size [inch]	IR/Butt Fusion		Socket Fusion Union		IR/Butt Fusion Union	
	FKM	USD	FKM	USD	FKM	USD
20	185 586 012	1,145.00	185 586 112	1,431.00	185 586 512	1,575.00
25	185 586 013	1,369.00	185 586 113	1,712.00	185 586 513	1,884.00
32	185 586 014	1,696.00	185 586 114	2,121.00	185 586 514	2,333.00
40	185 586 015	2,545.00	185 586 115	3,180.00	185 586 515	3,498.00
50	185 586 016	2,850.00	185 586 116	3,564.00	185 586 516	3,920.00
63	185 586 017	3,423.00	185 586 117	4,279.00	185 586 517	4,705.00



IR/Butt Fusion Union

Type V82 Pressure Reducing Valve



C

PVC

Size [inch]	Threaded NPT			
	EPDM	USD	PTFE	USD
2 ½	199 041 773 *	1,904.00	199 041 776 *	2,181.00
3	199 041 774 *	3,507.00	199 041 777 *	3,385.00
4	199 041 775 *	6,666.00	199 041 778 *	6,666.00

PP

C

d [mm]	IR/Butt Fusion			
	EPDM	USD	FKM	USD
75	199 041 637 *	2,478.00	199 041 640 *	2,853.00
90	199 041 638 *	5,178.00	199 041 647 *	5,575.00
110	199 041 639 *	8,190.00	199 041 648 *	8,907.00

Type V86 Pressure Retaining Valve



C

PVC

Size [inch]	Threaded NPT			
	EPDM	USD	PTFE	USD
2 ½	199 041 779 *	1,437.00	199 041 782 *	1,520.00
3	199 041 780 *	2,290.00	199 041 783 *	2,409.00
4	199 041 781 *	3,526.00	199 041 784 *	3,679.00

PP

C

d [mm]	IR/Butt Fusion			
	EPDM	USD	PTFE	USD
75	199 041 657 *	1,745.00	199 041 660 *	1,908.00
90	199 041 658 *	2,801.00	199 041 667 *	2,935.00
110	199 041 659 *	4,255.00	199 041 668 *	4,442.00

Accessories Type 582/586 Pressure Regulating Valve

Pressure Gauge

A

Discription	0-150psi	USD	0-45psi	USD
Brass/EPDM/FKM	198 806 651	55.00	198 806 962	55.00
SS/EPDM/FKM	198 806 652	165.00	198 806 963	165.00
Brass (HP)/FKM White	198 806 655	71.00	-	-
SS(HP)/FKM White	198 806 656	182.00	-	-



Gauge Guard

A

Discription	Part No.	USD
PVDF/EPDM	198 806 650	111.00
PVDF-HP/FKM White	198 806 654	128.00



Spare parts Type 582/586 Pressure Regulating Valve



Type 582 Pressure Reducing Valve Cartridge

A

Size [inch]	PVC					CPVC				
	EPDM	USD	FKM	USD	USD	EPDM	USD	FKM	USD	
3/8 - 1/2	161 489 131 ^	303.00	161 489 231 ^	339.00	339.00	163 489 131 ^	453.00	163 489 231 ^	507.00	
3/4 - 1	161 489 133 ^	367.00	161 489 233 ^	379.00	379.00	163 489 133 ^	550.00	163 489 233 ^	568.00	
1 1/4 - 2	161 489 136 ^	475.00	161 489 236 ^	501.00	501.00	163 489 136 ^	713.00	163 489 236 ^	750.00	
d [mm]	PP					PVDF				
	EPDM	USD	FKM	USD	USD	EPDM	USD	FKM	USD	
16 - 20	167 489 131 ^	323.00	167 489 231 ^	355.00	355.00	185 489 131 ^	491.00			
25 - 32	167 489 133 ^	349.00	167 489 233 ^	383.00	383.00	185 489 133 ^	656.00			
40 - 63	167 489 136 ^	518.00	167 489 236 ^	561.00	561.00	185 489 136 ^	1,024.00			



Type 586 Pressure Retaining Valve Cartridge

A

Size [inch]	PVC					CPVC				
	EPDM	USD	FKM	USD	USD	EPDM	USD	FKM	USD	
3/8 - 1/2	161 489 161 ^	257.00	161 489 261 ^	314.00	314.00	163 489 161 ^	386.00	163 489 261 ^	469.00	
3/4 - 1	161 489 163 ^	284.00	161 489 263 ^	296.00	296.00	163 489 163 ^	426.00	163 489 263 ^	445.00	
1 1/4 - 2	161 489 166 ^	469.00	161 489 266 ^	509.00	509.00	163 489 166 ^	704.00	163 489 266 ^	765.00	
d [mm]	PP					PVDF				
	EPDM	USD	FKM	USD	USD	EPDM	USD	FKM	USD	
16 - 20	167 489 161 ^	367.00	167 489 261 ^	368.00	368.00	185 489 161 ^	576.00			
25 - 32	167 489 163 ^	312.00	167 489 263 ^	326.00	326.00	185 489 163 ^	574.00			
40 - 63	167 489 166 ^	564.00	167 489 266 ^	600.00	600.00	185 489 166 ^	1,117.00			

Rotameters

Type 336 Rotameter PVC Transparent

C

Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 160	246.00	150 336 180 ^	324.00
1	11	0.44 - 4.40	150 336 161	246.00	150 336 181 ^	324.00
1¼	15	0.66 - 6.60	150 336 162	342.00	150 336 182 ^	473.00
1¼	16	1.10 - 11.00	150 336 163	342.00	150 336 183 ^	473.00
1½	19	0.88 - 8.80	150 336 164	342.00	150 336 184 ^	473.00
1½	20	1.32 - 13.20	150 336 165	342.00	150 336 185 ^	473.00
1½	21	2.64 - 26.40	150 336 166	342.00	150 336 186 ^	473.00
2	29	2.64 - 26.40	150 336 167	502.00	150 336 187 ^	791.00
2	30	4.40 - 44.00	150 336 168	502.00	150 336 188 ^	791.00
2	31	6.60 - 66.00	150 336 169	502.00	150 336 189 ^	791.00
2½	40	8.80 - 88.00	150 336 170	862.00	150 336 190 ^	1,161.00
2½	41	13.20 - 132.00	150 336 171	862.00	150 336 191 ^	1,161.00
2½	42	35.20 - 264.00	150 336 172	862.00	150 336 192 ^	1,161.00
Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, FKM Seals, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 200	252.00	150 336 220 ^	335.00
1	11	0.44 - 4.40	150 336 201	252.00	150 336 221 ^	335.00
1¼	15	0.66 - 6.60	150 336 202	336.00	150 336 222 ^	477.00
1¼	16	1.10 - 11.00	150 336 203	336.00	150 336 223 ^	477.00
1½	19	0.88 - 8.80	150 336 204	336.00	150 336 224 ^	477.00
1½	20	1.32 - 13.20	150 336 205	336.00	150 336 225 ^	477.00
1½	21	2.64 - 26.40	150 336 206	366.00	150 336 226 ^	477.00
2	29	2.64 - 26.40	150 336 207	535.00	150 336 227 ^	791.00
2	30	4.40 - 44.00	150 336 208	535.00	150 336 228 ^	791.00
2	31	6.60 - 66.00	150 336 209	535.00	150 336 229 ^	791.00
2½	40	8.80 - 88.00	150 336 210	848.00	150 336 230 ^	1,350.00
2½	41	13.20 - 132.00	150 336 211	885.00	150 336 231 ^	1,350.00
2½	42	35.20 - 264.00	150 336 212	885.00	150 336 232 ^	1,350.00



Rotameters

Type 336 Rotameter Polysulphone

C

Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 000	246.00	150 336 020 ^	324.00
1	11	0.44 - 4.40	150 336 001	246.00	150 336 021 ^	324.00
1¼	15	0.66 - 6.60	150 336 002	342.00	150 336 022 ^	473.00
1¼	16	1.10 - 11.00	150 336 003	342.00	150 336 023 ^	473.00
1½	19	0.88 - 8.80	150 336 004	342.00	150 336 024 ^	473.00
1½	20	1.32 - 13.20	150 336 005	342.00	150 336 025 ^	473.00
1½	21	2.64 - 26.40	150 336 006	342.00	150 336 026 ^	473.00
2	29	2.64 - 26.40	150 336 007	502.00	150 336 027 ^	791.00
2	30	4.40 - 44.00	150 336 008	502.00	150 336 028 ^	791.00
2	31	6.60 - 66.00	150 336 009	502.00	150 336 029 ^	791.00
2½	40	8.80 - 88.00	150 336 010	862.00	150 336 030 ^	1,161.00
2½	41	13.20 - 132.00	150 336 011	862.00	150 336 031 ^	1,161.00
2½	42	35.20 - 264.00	150 336 012	862.00	150 336 032 ^	1,161.00
Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, FKM Seals, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 040	252.00	150 336 060 ^	335.00
1	11	0.44 - 4.40	150 336 041	252.00	150 336 061 ^	335.00
1¼	15	0.66 - 6.60	150 336 042	336.00	150 336 062 ^	477.00
1¼	16	1.10 - 11.00	150 336 043	336.00	150 336 063 ^	477.00
1½	19	0.88 - 8.80	150 336 044	336.00	150 336 064 ^	477.00
1½	20	1.32 - 13.20	150 336 045	336.00	150 336 065 ^	477.00
1½	21	2.64 - 26.40	150 336 046	366.00	150 336 066 ^	477.00
2	29	2.64 - 26.40	150 336 047	535.00	150 336 067 ^	791.00
2	30	4.40 - 44.00	150 336 048	535.00	150 336 068 ^	791.00
2	31	6.60 - 66.00	150 336 049	535.00	150 336 069 ^	791.00
2½	40	8.80 - 88.00	150 336 050	848.00	150 336 070 ^	1,350.00
2½	41	13.20 - 132.00	150 336 051	885.00	150 336 071 ^	1,350.00
2½	42	35.20 - 264.00	150 336 052	885.00	150 336 072 ^	1,350.00



Rotameters

Type 336 Rotameter Poyamide

C

Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 080	229.00	150 336 100 ^	298.00
1	11	0.44 - 4.40	150 336 081	229.00	150 336 101 ^	298.00
1¼	15	0.66 - 6.60	150 336 082	320.00	150 336 102 ^	423.00
1¼	16	1.10 - 11.00	150 336 083	320.00	150 336 103 ^	423.00
1½	19	0.88 - 8.80	150 336 084	320.00	150 336 104 ^	423.00
1½	20	1.32 - 13.20	150 336 085	320.00	150 336 105 ^	423.00
1½	21	2.64 - 26.40	150 336 086	320.00	150 336 106 ^	423.00
2	29	2.64 - 26.40	150 336 087	491.00	150 336 107 ^	491.00
2	30	4.40 - 44.00	150 336 088	491.00	150 336 108 ^	656.00
2	31	6.60 - 66.00	150 336 089	491.00	150 336 109 ^	656.00
2½	40	8.80 - 88.00	150 336 090	797.00	150 336 110 ^	976.00
2½	41	13.20 - 132.00	150 336 091	797.00	150 336 111 ^	1,145.00
2½	42	35.20 - 264.00	150 336 092	797.00	150 336 112 ^	1,145.00
Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, FKM Seals, Standard Tube			
			Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	150 336 120	226.00	150 336 140 ^	352.00
1	11	0.44 - 4.40	150 336 121	226.00	150 336 141 ^	352.00
1¼	15	0.66 - 6.60	150 336 122	316.00	150 336 142 ^	442.00
1¼	16	1.10 - 11.00	150 336 123	316.00	150 336 143 ^	442.00
1½	19	0.88 - 8.80	150 336 124	316.00	150 336 144 ^	442.00
1½	20	1.32 - 13.20	150 336 125	316.00	150 336 145 ^	442.00
1½	21	2.64 - 26.40	150 336 126	316.00	150 336 146 ^	442.00
2	29	2.64 - 26.40	150 336 127	480.00	150 336 147 ^	679.00
2	30	4.40 - 44.00	150 336 128	480.00	150 336 148 ^	679.00
2	31	6.60 - 66.00	150 336 129	480.00	150 336 149 ^	679.00
2½	40	8.80 - 88.00	150 336 130	918.00	150 336 150 ^	1,295.00
2½	41	13.20 - 132.00	150 336 131	918.00	150 336 151 ^	1,295.00
2½	42	35.20 - 264.00	150 336 132	918.00	150 336 152 ^	1,295.00



Rotameters

Type 807 Short Rotameter Polysulphone

C

Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, EPDM Seal, Short Tube			
			Standard Float	USD	Magnetic Float	USD
3/8	50	0.01 - 0.11	198 807 550	153.00	198 807 576 ^	208.00
3/8	51	0.02 - 0.22	198 807 551	153.00	198 807 577 ^	208.00
3/8	52	0.04 - 0.44	198 807 552	153.00	198 807 578 ^	208.00
1/2	60	0.03 - 0.33	198 807 553	157.00	198 807 579 ^	227.00
1/2	61	0.06 - 0.66	198 807 554	157.00	198 807 580 ^	227.00
1/2	62	0.08 - 0.88	198 807 555	157.00	198 807 581 ^	227.00
1	70	0.06 - 0.66	198 807 556	183.00	198 807 582 ^	294.00
1	71	0.13 - 1.32	198 807 557	183.00	198 807 583 ^	294.00
1	72	0.22 - 2.20	198 807 558	183.00	198 807 584 ^	294.00
1	73	0.44 - 4.40	198 807 559	183.00	198 807 585 ^	294.00

Size [inch]	SK	Scale Range [gal/min]	PVC Socket Ends, FKM Seal, Short Tube			
			Standard Float	USD	Magnetic Float	USD
3/8	50	0.01 - 0.11	198 807 602	166.00	198 807 612 ^	210.00
3/8	51	0.02 - 0.22	198 807 603	166.00	198 807 613 ^	210.00
3/8	52	0.04 - 0.44	198 807 604	166.00	198 807 614 ^	210.00
1/2	60	0.03 - 0.33	198 807 605	176.00	198 807 615 ^	236.00
1/2	61	0.06 - 0.66	198 807 606	176.00	198 807 616 ^	236.00
1/2	62	0.08 - 0.88	198 807 607	176.00	198 807 617 ^	236.00
1	70	0.06 - 0.66	198 807 608	201.00	198 807 618 ^	303.00
1	71	0.13 - 1.32	198 807 609	201.00	198 807 619 ^	303.00
1	72	0.22 - 2.20	198 807 610	201.00	198 807 620 ^	303.00
1	73	0.44 - 4.40	198 807 611	201.00	198 807 621 ^	303.00



Type 807 Polysulphone PVDF-HP UPW Rotameter

C

d [mm]	SK	Scale Range [gal/min]	IR/Butt Fusion FKM	USD
32	70*	0.36 - 1.00	198 807 209 *	468.00
32	71*	0.40 - 1.40	198 807 210 *	468.00
32	73*	0.60 - 3.50	198 807 202 *	468.00

* The only components compatible with this tube are position sensors and limit switches of this SK number.

Type 335 Polysulphone PVDF-HP UPW Rotameter

C

d [mm]	SK	Scale Range [gal/min]	IR/Butt Fusion FKM	USD
32	11	0.44 - 4.40	198 335 160 *	468.00
50	20	1.32 - 13.20	198 335 161 *	782.00
50	21	2.64 - 26.40	198 335 162 *	782.00
63	30*	4.40 - 35.20	198 335 163 *	1,051.00
63	31	6.60 - 66.00	198 335 164 *	1,051.00
75	40	8.80 - 88.00	198 335 165 *	1,651.00
75	41*	13.20 - 127.70	198 335 166 *	1,651.00

* The only components compatible with this tube are position sensors and limit switches of this SK number.



Rotameter Assembly Seal Adders

Seal List Adder

C

Size [inch]	EPDM (A)	FKM (B)
¾ - ½	0.00	6.00
1	0.00	6.00
1 ½	0.00	18.00
1¾	0.00	18.00
2	0.00	23.00
2 ½	0.00	31.00

Although not all material combinations are available as complete rotameter assemblies, one can configure other combinations using the listed assembly adders. Simply sum the adders 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.

Example: Choose tube (199.335.828), End connectors (D), Seal (B)

Becomes: 199.335.828DB: Total List = Tube list + (D) list + (B) list

End Connector List Adders

C

Size [inch]	PVC			CPVC		
	(A) Threaded NPT	(B) ANSI Flanged	(N) Socket	(M) Socket	(I) Threaded NPT	(J) Flanged
¾ - ½	28.00	69.00	28.00	35.00	35.00	69.00
1	29.00	70.00	29.00	36.00	36.00	70.00
1 ½	45.00	86.00	45.00	56.00	56.00	86.00
1¾	45.00	86.00	45.00	56.00	56.00	86.00
2	55.00	96.00	55.00	68.00	68.00	96.00
2 ½	334.00	314.00	252.00	288.00	371.00	314.00

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
16 - 20	35.00	35.00	35.00	69.00	102.00	102.00	102.00	180.00
32	36.00	36.00	36.00	70.00	106.00	106.00	102.00	183.00
50	56.00	56.00	56.00	86.00	162.00	162.00	106.00	240.00
40	56.00	56.00	56.00	86.00	162.00	162.00	162.00	240.00
63	68.00	68.00	68.00	96.00	198.00	198.00	162.00	275.00
75	334.00	-	-	371.00	428.00	-	-	506.00

Rotameter Accessories

Position Sensor

C

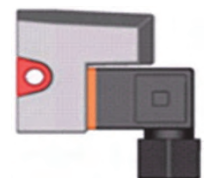
Size [inch]	SK	4-20mA	Part No.
1	10	198 335 962 ^	652.00
1	11	198 335 963 ^	652.00
1 ¼	15	198 335 964 ^	652.00
1 ¼	16	198 335 965 ^	652.00
1 ½	19	198 335 966 ^	652.00
1 ½	20	198 335 967 ^	652.00
1 ½	21	198 335 968 ^	652.00
2	29	198 335 969 ^	652.00
2	30	198 335 991 ^	652.00
2	31	198 335 992 ^	652.00
2 ½	40	198 335 993 ^	652.00
2 ½	41	198 335 994 ^	652.00
2 ½	42	198 335 995 ^	652.00



Limit Switch

C

SK	Type	Mechanical	USD
10-73	Min	198 335 960	106.00
10-73	Max	198 335 961	106.00



Rotameter Scales

Type 336 Standard Tube Scale

C

Size [inch]	GPM				l/h			
	SK	Scale Range	Part No.	USD	SK	Scale Range	Part No.	USD
1	10	0.22 - 2.20	199 335 685 *	23.00	10	50 - 500	199 335 861 *	23.00
1	11	0.44 - 4.40	199 335 686 *	23.00	11	100 - 1000	199 335 862 *	23.00
1 ¼	15	0.66 - 6.60	199 335 687 *	23.00	15	150 - 1500	199 335 863 *	23.00
1 ¼	16	1.10 - 11.00	199 335 688 *	23.00	16	250 - 2500	199 335 864 *	23.00
1 ½	19	0.88 - 8.80	199 335 689 *	23.00	19	200 - 2000	199 335 865 *	23.00
1 ½	20	1.32 - 13.20	199 335 690 *	23.00	20	300 - 3000	199 335 866 *	23.00
1 ½	21	2.64 - 26.40	199 335 691 *	23.00	21	600 - 6000	199 335 867 *	23.00
2	29	2.64 - 26.40	199 335 692 *	23.00	29	600 - 6000	199 335 868 *	24.00
2	30	4.40 - 44.00	199 335 693 *	23.00	30	1000 - 10000	199 335 869 *	23.00
2	31	6.60 - 66.00	199 335 694 *	23.00	31	1500 - 15000	199 335 870 *	23.00
2 ½	40	8.80 - 88.00	199 335 695 *	23.00	40	2000 - 20000	199 335 871 *	23.00
2 ½	41	13.20 - 132.00	199 335 696 *	23.00	41	3000 - 30000	199 335 872 *	23.00
2 ½	42	35.20 - 264.00	199 335 697 *	23.00	42	8000-60000	199 335 873 *	23.00

Type 807 Short Tube Scale

C

Size [inch]	GPM				l/h			
	SK	Scale Range	Part No.	USD	SK	Scale Range	Part No.	USD
¾	50	0.01 - 0.11	198 801 961 *	23.00	50	2.5 - 25	198 801 386 *	23.00
¾	51	0.02 - 0.22	198 801 962 *	23.00	51	5 - 50	198 801 387 *	23.00
¾	52	0.04 - 0.44	198 801 963 *	23.00	52	10 - 100	198 801 388 *	23.00
½	60	0.03 - 0.33	198 801 964 *	23.00	60	8 - 80	198 801 389 *	23.00
½	61	0.06 - 0.66	198 801 965 *	23.00	61	15 - 150	198 801 390 *	23.00
½	62	0.08 - 0.88	198 801 966 *	23.00	62	20 - 200	198 801 391 *	23.00
1	70	0.06 - 0.66	198 801 967 *	23.00	70	15 - 150	198 801 392 *	23.00
1	71	0.13 - 1.32	198 801 968 *	23.00	71	30 - 300	198 801 393 *	23.00
1	72	0.22 - 2.20	198 801 969 *	23.00	72	50 - 500	198 801 394 *	23.00
1	73	0.44 - 4.40	198 801 970 *	23.00	73	100 - 1000	198 801 395 *	23.00

Rotameter Spare Parts

Type 336 PVC-Trans. Tube Set with Standard Tube

C

Size [inch]	SK	Scale Range [gal/min]	Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	199 335 800 *	201.00	199 335 900 *	283.00
1	11	0.44 - 4.40	199 335 801 *	201.00	199 335 901 *	283.00
1 ¼	15	0.66 - 6.60	199 335 802 *	232.00	199 335 902 *	336.00
1 ¼	16	1.10 - 11.00	199 335 803 *	232.00	199 335 903 *	336.00
1 ½	19	0.88 - 8.80	199 335 804 *	275.00	199 335 904 *	412.00
1 ½	20	1.32 - 13.20	199 335 805 *	275.00	199 335 905 *	412.00
1 ½	21	2.64 - 26.40	199 335 806 *	275.00	199 335 906 *	412.00
2	29	2.64 - 26.40	199 335 807 *	436.00	199 335 907 *	713.00
2	30	4.40 - 44.00	199 335 808 *	436.00	199 335 908 *	713.00
2	31	6.60 - 66.00	199 335 809 *	436.00	199 335 909 *	713.00
2 ½	40	8.80 - 88.00	199 335 810 *	545.00	199 335 910 *	850.00
2 ½	41	13.20 - 132.00	199 335 811 *	545.00	199 335 911 *	850.00
2 ½	42	35.20 - 264.00	199 335 812 *	545.00	199 335 912 *	850.00

Type 336 Polysulphone Tube Set with Standard Tube

C

Size [inch]	SK	Scale Range [gal/min]	Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	199 335 840 *	201.00	199 335 940 *	283.00
1	11	0.44 - 4.40	199 335 841 *	201.00	199 335 941 *	283.00
1 ¼	15	0.66 - 6.60	199 335 842 *	232.00	199 335 942 *	336.00
1 ¼	16	1.10 - 11.00	199 335 843 *	232.00	199 335 943 *	336.00
1 ½	19	0.88 - 8.80	199 335 844 *	275.00	199 335 944 *	412.00
1 ½	20	1.32 - 13.20	199 335 845 *	275.00	199 335 945 *	412.00
1 ½	21	2.64 - 26.40	199 335 846 *	275.00	199 335 946 *	412.00
2	29	2.64 - 26.40	199 335 847 *	436.00	199 335 947 *	713.00
2	30	4.40 - 44.00	199 335 848 *	436.00	199 335 948 *	713.00
2	31	6.60 - 66.00	199 335 849 *	436.00	199 335 949 *	713.00
2 ½	40	8.80 - 88.00	199 335 850 *	545.00	199 335 950 *	850.00
2 ½	41	13.20 - 132.00	199 335 850 *	545.00	199 335 950 *	850.00
2 ½	42	35.20 - 264.00	199 335 851 *	545.00	199 335 951 *	850.00

Type 336 Polyamide Tube Set with Standard Tube

C

Size [inch]	SK	Scale Range [gal/min]	Standard Float	USD	Magnetic Float	USD
1	10	0.22 - 2.20	199 335 820 *	183.00	199 335 920 *	264.00
1	11	0.44 - 4.40	199 335 821 *	186.00	199 335 921 *	264.00
1 ¼	15	0.66 - 6.60	199 335 822 *	210.00	199 335 922 *	309.00
1 ¼	16	1.10 - 11.00	199 335 823 *	210.00	199 335 923 *	309.00
1 ½	19	0.88 - 8.80	199 335 824 *	252.00	199 335 924 *	376.00
1 ½	20	1.32 - 13.20	199 335 825 *	252.00	199 335 925 *	376.00
1 ½	21	2.64 - 26.40	199 335 826 *	252.00	199 335 926 *	376.00
2	29	2.64 - 26.40	199 335 827 *	397.00	199 335 927 *	596.00
2	30	4.40 - 44.00	199 335 828 *	397.00	199 335 928 *	596.00
2	31	6.60 - 66.00	199 335 829 *	397.00	199 335 928 *	596.00
2 ½	40	8.80 - 88.00	199 335 829 *	397.00	199 335 929 *	596.00
2 ½	41	13.20 - 132.00	199 335 830 *	480.00	199 335 930 *	697.00
2 ½	42	35.20 - 264.00	199 335 831 *	480.00	199 335 931 *	863.00

Rotameter Spare Parts

Type 807 Polysulphone Short Tube Set

C

Size [inch]	SK	Flow Range [gal/min]	Standard Float	USD	Magnetic Float	USD
3/8	50	0.01 - 0.11	198 806 100 *	121.00	198 806 110 *	181.00
3/8	51	0.02 - 0.22	198 806 101 *	121.00	198 806 111 *	181.00
3/8	52	0.04 - 0.44	198 806 102 *	121.00	198 806 112 *	181.00
1/2	60	0.03 - 0.33	198 806 103 *	125.00	198 806 113 *	199.00
1/2	61	0.06 - 0.66	198 806 104 *	125.00	198 806 114 *	199.00
1/2	62	0.08 - 0.88	198 806 105 *	125.00	198 806 115 *	199.00
1	70	0.06 - 0.66	198 806 106 *	141.00	198 806 116 *	253.00
1	71	0.13 - 1.32	198 806 107 *	141.00	198 806 117 *	253.00
1	72	0.22 - 2.20	198 806 108 *	141.00	198 806 118 *	253.00
1	73	0.44 - 4.40	198 806 109 *	141.00	198 806 119 *	253.00



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	18.00	735 690 405	25.00
20 - 1/2	721 890 006	3.00	723 690 006	5.00	727 890 406	21.00	735 690 406	28.00
32 - 1	721 890 008	5.00	723 690 008	8.00	727 890 408	25.00	735 690 408	45.00
40 - 1 1/4	721 890 009	6.00	723 690 009	9.00	727 890 409	31.00	735 690 409	64.00
50 - 1 1/2	721 890 010	8.00	723 690 010	13.00	727 890 410	50.00	735 690 410	95.00
63 - 2	721 890 011	11.00	723 690 011	18.00	727 890 411	78.00	735 690 411	149.00
75 - 2 1/2	198 806 429 *	98.00	-	-	198 806 421 *	221.00	198 806 422 *	236.00

O-Rings

B

d - Size [mm]-[inch]	EPDM	USD	FKM	USD
16 - 3/8	748 410 005 ^	3.00	749 410 005 ^	3.00
20 - 1/2	748 410 006 ^	3.00	749 410 006 ^	5.00
32 - 1	748 410 008	6.00	749 410 008	7.00
40 - 1 1/4	748 410 009	6.00	749 410 009	17.00
50 - 1 1/2	748 410 010	6.00	749 410 010	19.00
63 - 2	748 410 011	8.00	749 410 011	20.00
75 - 2 1/2	748 410 014 *	12.00	749 410 014 *	29.00



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	2.00	-	-	-	-	-	-
1/2	721 602 006	3.00	721 602 656	5.00	157 203 603 *	25.00	155 203 611 *	32.00
1	721 602 008	3.00	721 602 658	8.00	157 203 604 *	28.00	155 203 612 *	52.00
1 1/4	721 602 009	5.00	721 602 659	26.00	-	-	-	-
1 1/2	721 602 010	5.00	721 602 660	22.00	157 203 606 *	31.00	155 203 614 *	75.00
2	721 602 011	8.00	721 602 661	22.00	157 203 607 *	35.00	155 203 615 *	93.00
2 1/2	700 259 430	33.00	-	-	-	-	-	-
Size [inch]	CPVC Socket		CPVC Threaded NPT					
	Part No.	USD	Part No.	USD				
1/2	723 602 006	3.00	153 203 620 *	12.00				
1	723 602 008	4.00	153 203 622 *	20.00				
1 1/4	723 602 009	4.00	153 203 623 *	31.00				
1 1/2	723 602 010	9.00	153 203 624 *	26.00				
2	723 602 011	13.00	153 203 625 *	26.00				
d [mm]	PVC Socket Metric		PP Socket Fusion		PVDF Socket Fusion			
	Part No.	USD	Part No.	USD	Part No.	USD		
16	721 500 105	3.00	727 500 105	3.00	735 600 105	16.00		
20	721 500 106	3.00	727 500 106	4.00	735 600 106	17.00		
32	721 500 108	4.00	727 500 108	5.00	735 600 108	23.00		
40	721 500 109	4.00	727 500 109	6.00	735 600 109	32.00		
50	721 500 110	6.00	727 500 110	7.00	735 600 110	36.00		
63	721 500 111	8.00	727 500 111	8.00	735 600 111	50.00		
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	21.00		
32	727 508 508	12.00	728 608 508	17.00	735 608 608	31.00		
40	727 508 509	24.00	728 608 509	25.00	735 608 609	36.00		
50	727 508 510	24.00	728 608 510	26.00	735 608 610	41.00		
63	727 508 511	26.00	728 608 511	36.00	735 608 611	60.00		

Part Number Page List Price

150 101 037	77	8.00
150 101 038	77	5.00
150 101 065	76	19.00
150 101 066	76	12.00
150 101 609	18	45.00
150 101 616	18	8.00
150 101 618	18	2.00
150 101 626	18	216.00
150 104 203	46	294.00
150 104 204	46	297.00
150 104 205	46	301.00
150 104 206	46	313.00
150 104 207	46	316.00
150 104 208	46	331.00
150 104 213	46	297.00
150 104 214	46	301.00
150 104 215	46	307.00
150 104 216	46	317.00
150 104 217	46	327.00
150 104 218	46	346.00
150 104 223	46	294.00
150 104 224	46	297.00
150 104 225	46	301.00
150 104 226	46	313.00
150 104 227	46	316.00
150 104 228	46	331.00
150 104 233	46	297.00
150 104 234	46	301.00
150 104 235	46	307.00
150 104 236	46	317.00
150 104 237	46	327.00
150 104 238	46	346.00
150 104 303	46	304.00
150 104 304	46	308.00
150 104 305	46	318.00
150 104 306	46	331.00
150 104 307	46	342.00
150 104 308	46	355.00
150 104 313	46	307.00
150 104 314	46	316.00
150 104 315	46	324.00
150 104 316	46	339.00
150 104 317	46	352.00
150 104 318	46	379.00
150 104 323	46	304.00
150 104 324	46	308.00
150 104 325	46	318.00
150 104 326	46	331.00

Part Number Page List Price

150 104 327	46	342.00
150 104 328	46	355.00
150 104 333	46	307.00
150 104 334	46	316.00
150 104 335	46	324.00
150 104 336	46	339.00
150 104 337	46	352.00
150 104 338	46	379.00
150 104 403	46	294.00
150 104 404	46	297.00
150 104 405	46	301.00
150 104 406	46	313.00
150 104 407	46	316.00
150 104 408	46	331.00
150 104 413	46	297.00
150 104 414	46	301.00
150 104 415	46	307.00
150 104 416	46	317.00
150 104 417	46	327.00
150 104 418	46	346.00
150 104 503	46	304.00
150 104 504	46	308.00
150 104 505	46	318.00
150 104 506	46	331.00
150 104 507	46	342.00
150 104 508	46	355.00
150 104 513	46	307.00
150 104 514	46	316.00
150 104 515	46	324.00
150 104 516	46	339.00
150 104 517	46	352.00
150 104 518	46	379.00
150 125 382	53	670.00
150 125 383	53	670.00
150 125 384	53	683.00
150 125 385	53	699.00
150 125 386	53	705.00
150 125 387	53	782.00
150 125 388	53	860.00
150 125 392	53	677.00
150 125 393	53	677.00
150 125 394	53	698.00
150 125 395	53	716.00
150 125 396	53	812.00
150 125 397	53	838.00
150 125 398	53	914.00
150 125 422	53	670.00
150 125 423	53	670.00

Part Number Page List Price

150 125 424	53	683.00
150 125 425	53	699.00
150 125 426	53	705.00
150 125 427	53	782.00
150 125 428	53	860.00
150 125 432	53	677.00
150 125 433	53	677.00
150 125 434	53	698.00
150 125 435	53	716.00
150 125 436	53	812.00
150 125 437	53	838.00
150 125 438	53	914.00
150 128 000	50	731.00
150 128 001	50	731.00
150 128 002	50	746.00
150 128 003	50	762.00
150 128 004	50	768.00
150 128 005	50	849.00
150 128 006	50	933.00
150 128 007	50	740.00
150 128 008	50	740.00
150 128 009	50	761.00
150 128 010	50	781.00
150 128 011	50	882.00
150 128 012	50	909.00
150 128 013	50	987.00
150 128 572	50	670.00
150 128 573	50	670.00
150 128 574	50	683.00
150 128 575	50	699.00
150 128 576	50	705.00
150 128 577	50	782.00
150 128 578	50	860.00
150 128 582	50	677.00
150 128 583	50	677.00
150 128 584	50	698.00
150 128 585	50	716.00
150 128 586	50	812.00
150 128 587	50	838.00
150 128 588	50	914.00
150 145 102	56	2107.00
150 145 103	56	2110.00
150 145 104	56	2123.00
150 145 105	56	2146.00
150 145 106	56	2264.00
150 145 107	56	2264.00
150 145 108	56	2731.00
150 145 182	57	2216.00

Part Number Page List Price

150 145 183	57	2276.00
150 145 184	57	2352.00
150 145 185	57	2429.00
150 145 186	57	2663.00
150 145 187	57	2663.00
150 145 188	57	3249.00
150 145 262	57	2216.00
150 145 263	57	2276.00
150 145 264	57	2352.00
150 145 265	57	2429.00
150 145 266	57	2663.00
150 145 267	57	2663.00
150 145 268	57	3249.00
150 145 302	57	1567.00
150 145 303	57	1627.00
150 145 304	57	1703.00
150 145 305	57	1778.00
150 145 306	57	1973.00
150 145 307	57	1973.00
150 145 308	57	2562.00
150 145 309	57	5213.00
150 145 310	57	6052.00
150 145 342	58	2212.00
150 145 343	58	2428.00
150 145 344	58	2468.00
150 145 345	58	2559.00
150 145 346	58	2842.00
150 145 347	58	2842.00
150 145 348	58	3359.00
150 145 382	58	1531.00
150 145 383	58	1558.00
150 145 384	58	1593.00
150 145 385	58	1674.00
150 145 386	58	1892.00
150 145 387	58	1892.00
150 145 388	58	2365.00
150 145 389	58	4035.00
150 145 390	58	4095.00
150 145 422	58	2212.00
150 145 423	58	2428.00
150 145 424	58	2468.00
150 145 425	58	2559.00
150 145 426	58	2842.00
150 145 427	58	2842.00
150 145 428	58	3359.00
150 145 462	58	1531.00
150 145 463	58	1558.00
150 145 464	58	1593.00

Part Number Page List Price

150 145 465	58	1674.00
150 145 466	58	1892.00
150 145 467	58	1892.00
150 145 468	58	2365.00
150 145 469	58	4035.00
150 145 470	58	4095.00
150 145 582	59	1925.00
150 145 583	59	2081.00
150 145 584	59	2258.00
150 145 585	59	2445.00
150 145 586	59	3066.00
150 145 587	59	3066.00
150 145 588	59	4010.00
150 145 589	59	6051.00
150 145 590	59	6240.00
150 145 602	59	2607.00
150 145 603	59	2762.00
150 145 604	59	2939.00
150 145 605	59	3128.00
150 145 606	59	3794.00
150 145 607	59	3794.00
150 145 608	59	4732.00
150 145 622	59	1925.00
150 145 623	59	2081.00
150 145 624	59	2258.00
150 145 625	59	2445.00
150 145 626	59	3066.00
150 145 627	59	3066.00
150 145 628	59	4010.00
150 145 629	59	6051.00
150 145 630	59	6772.00
150 145 642	59	2769.00
150 145 643	59	2903.00
150 145 644	59	3039.00
150 145 645	59	3273.00
150 145 646	59	4426.00
150 145 647	59	4426.00
150 145 648	59	5411.00
150 145 649	59	7564.00
150 145 650	59	8463.00
150 145 662	59	2769.00
150 145 663	59	2903.00
150 145 664	59	3039.00
150 145 665	59	3273.00
150 145 666	59	4426.00
150 145 667	59	4426.00
150 145 668	59	5411.00
150 145 669	59	7564.00

Part Number Page List Price

150 145 670	59	8463.00
150 147 062	60	1767.00
150 147 063	60	1786.00
150 147 064	60	1784.00
150 147 065	60	2172.00
150 147 066	60	2454.00
150 147 067	60	2454.00
150 147 068	60	3261.00
150 147 069	60	4712.00
150 147 070	60	5464.00
150 147 082	60	2335.00
150 147 083	60	2353.00
150 147 084	60	2353.00
150 147 085	60	2702.00
150 147 086	60	2959.00
150 147 087	60	2959.00
150 147 088	60	3731.00
150 147 102	60	2418.00
150 147 103	60	2435.00
150 147 104	60	2436.00
150 147 105	60	2826.00
150 147 106	60	3147.00
150 147 107	60	3147.00
150 147 108	60	3949.00
150 147 122	60	1685.00
150 147 123	60	1702.00
150 147 124	60	1724.00
150 147 125	60	2052.00
150 147 126	60	2267.00
150 147 127	60	2267.00
150 147 128	60	3046.00
150 147 129	60	4522.00
150 147 130	60	4817.00
150 147 142	60	1767.00
150 147 143	60	1786.00
150 147 144	60	1784.00
150 147 145	60	2172.00
150 147 146	60	2454.00
150 147 147	60	2454.00
150 147 148	60	3261.00
150 147 149	60	4712.00
150 147 150	60	5464.00
150 147 162	61	2543.00
150 147 163	61	2573.00
150 147 164	61	2609.00
150 147 165	61	3116.00
150 147 166	61	3539.00
150 147 167	61	3539.00

Part Number Page List Price

150 147 168	61	4471.00
150 147 182	61	2638.00
150 147 183	61	2690.00
150 147 184	61	2681.00
150 147 185	61	3295.00
150 147 186	61	3782.00
150 147 187	61	3782.00
150 147 188	61	4810.00
150 147 222	61	1988.00
150 147 223	61	2040.00
150 147 224	61	2032.00
150 147 225	61	2643.00
150 147 226	61	3091.00
150 147 227	61	3091.00
150 147 228	61	4122.00
150 147 229	61	8927.00
150 147 230	61	9992.00
150 147 242	61	2543.00
150 147 243	61	2573.00
150 147 244	61	2609.00
150 147 245	61	3116.00
150 147 246	61	3539.00
150 147 247	61	3539.00
150 147 248	61	4471.00
150 147 262	61	2638.00
150 147 263	61	2690.00
150 147 264	61	2681.00
150 147 265	61	3295.00
150 147 266	61	3782.00
150 147 267	61	3782.00
150 147 268	61	4810.00
150 147 302	61	1988.00
150 147 303	61	2040.00
150 147 304	61	2032.00
150 147 305	61	2643.00
150 147 306	61	3091.00
150 147 307	61	3091.00
150 147 308	61	4122.00
150 147 309	61	8927.00
150 147 310	61	9992.00
150 147 322	62	2599.00
150 147 323	62	2745.00
150 147 324	62	2809.00
150 147 325	62	3186.00
150 147 326	62	3656.00
150 147 327	62	3656.00
150 147 328	62	4520.00
150 147 342	62	2492.00

Part Number Page List Price

150 147 343	62	2875.00
150 147 344	62	2902.00
150 147 345	62	3158.00
150 147 346	62	4223.00
150 147 347	62	4223.00
150 147 348	62	4795.00
150 147 382	62	2013.00
150 147 383	62	2226.00
150 147 384	62	2249.00
150 147 385	62	2506.00
150 147 386	62	3531.00
150 147 387	62	3531.00
150 147 388	62	4107.00
150 147 389	62	5520.00
150 147 390	62	6156.00
150 147 402	62	2599.00
150 147 403	62	2745.00
150 147 404	62	2809.00
150 147 405	62	3077.00
150 147 406	62	3656.00
150 147 407	62	3656.00
150 147 408	62	4520.00
150 147 422	62	2663.00
150 147 423	62	2875.00
150 147 424	62	2902.00
150 147 425	62	3158.00
150 147 426	62	4223.00
150 147 427	62	4223.00
150 147 428	62	4795.00
150 147 442	62	1949.00
150 147 443	62	2094.00
150 147 444	62	2161.00
150 147 445	62	2424.00
150 147 446	62	2960.00
150 147 447	62	2960.00
150 147 448	62	3834.00
150 147 449	62	4710.00
150 147 450	62	5227.00
150 147 462	62	2013.00
150 147 463	62	2226.00
150 147 464	62	2249.00
150 147 465	62	2506.00
150 147 466	62	3531.00
150 147 467	62	3531.00
150 147 468	62	4107.00
150 147 469	62	5520.00
150 147 470	62	6156.00
150 147 562	63	2929.00

Part Number Page List Price

150 147 563	63	3215.00
150 147 564	63	3209.00
150 147 565	63	3469.00
150 147 566	63	4564.00
150 147 567	63	4564.00
150 147 568	63	5337.00
150 147 602	63	3055.00
150 147 603	63	3307.00
150 147 604	63	3270.00
150 147 605	63	3902.00
150 147 606	63	5340.00
150 147 607	63	5340.00
150 147 608	63	8015.00
150 147 622	63	2247.00
150 147 623	63	2534.00
150 147 624	63	2526.00
150 147 625	63	2784.00
150 147 626	63	3837.00
150 147 627	63	3837.00
150 147 628	63	4615.00
150 147 629	63	6651.00
150 147 630	63	7270.00
150 147 649	63	10921.00
150 147 650	63	12763.00
150 147 662	63	3217.00
150 147 663	63	3448.00
150 147 664	63	3369.00
150 147 665	63	4046.00
150 147 666	63	5971.00
150 147 667	63	5971.00
150 147 668	63	8694.00
150 147 669	63	10921.00
150 147 670	63	12763.00
150 167 362	51	1126.00
150 167 363	51	1128.00
150 167 364	51	1143.00
150 167 365	51	1170.00
150 167 366	51	1189.00
150 167 367	51	1266.00
150 167 368	51	1309.00
150 167 372	51	1136.00
150 167 373	51	1139.00
150 167 374	51	1154.00
150 167 375	51	1183.00
150 167 376	51	1208.00
150 167 377	51	1290.00
150 167 378	51	1347.00
150 167 402	51	1126.00

Part Number Page List Price

150 167 403	51	1128.00
150 167 404	51	1143.00
150 167 405	51	1170.00
150 167 406	51	1189.00
150 167 407	51	1266.00
150 167 408	51	1309.00
150 167 412	51	1136.00
150 167 413	51	1139.00
150 167 414	51	1154.00
150 167 415	51	1183.00
150 167 416	51	1208.00
150 167 417	51	1290.00
150 167 418	51	1347.00
150 167 442	51	1132.00
150 167 443	51	1132.00
150 167 444	51	1151.00
150 167 445	51	1201.00
150 167 446	51	1217.00
150 167 447	51	1376.00
150 167 448	51	1508.00
150 167 452	51	1166.00
150 167 453	51	1166.00
150 167 454	51	1186.00
150 167 455	51	1237.00
150 167 456	51	1271.00
150 167 457	51	1411.00
150 167 458	51	1542.00
150 167 462	51	1132.00
150 167 463	51	1132.00
150 167 464	51	1151.00
150 167 465	51	1201.00
150 167 466	51	1217.00
150 167 467	51	1376.00
150 167 468	51	1508.00
150 167 472	51	1166.00
150 167 473	51	1166.00
150 167 474	51	1186.00
150 167 475	51	1237.00
150 167 476	51	1271.00
150 167 477	51	1411.00
150 167 478	51	1542.00
150 167 482	51	1132.00
150 167 483	51	1132.00
150 167 484	51	1151.00
150 167 485	51	1201.00
150 167 486	51	1217.00
150 167 487	51	1376.00
150 167 488	51	1508.00

Part Number Page List Price

150 167 492	51	1166.00
150 167 493	51	1166.00
150 167 494	51	1186.00
150 167 495	51	1237.00
150 167 496	51	1271.00
150 167 497	51	1411.00
150 167 498	51	1542.00
150 167 502	51	1132.00
150 167 503	51	1132.00
150 167 504	51	1151.00
150 167 505	51	1201.00
150 167 506	51	1217.00
150 167 507	51	1376.00
150 167 508	51	1508.00
150 167 512	51	1166.00
150 167 513	51	1166.00
150 167 514	51	1186.00
150 167 515	51	1237.00
150 167 516	51	1271.00
150 167 517	51	1411.00
150 167 518	51	1542.00
150 168 322	52	1186.00
150 168 323	52	1186.00
150 168 324	52	1207.00
150 168 325	52	1260.00
150 168 326	52	1329.00
150 168 327	52	1440.00
150 168 328	52	1499.00
150 168 332	52	1216.00
150 168 333	52	1216.00
150 168 334	52	1258.00
150 168 335	52	1328.00
150 168 336	52	1469.00
150 168 337	52	1605.00
150 168 338	52	1790.00
150 168 342	52	1186.00
150 168 343	52	1186.00
150 168 344	52	1207.00
150 168 345	52	1260.00
150 168 346	52	1329.00
150 168 347	52	1440.00
150 168 348	52	1499.00
150 168 352	52	1216.00
150 168 353	52	1216.00
150 168 354	52	1258.00
150 168 355	52	1328.00
150 168 356	52	1469.00
150 168 357	52	1605.00

Part Number Page List Price

150 168 358	52	1790.00
150 169 053	53	1554.00
150 169 054	53	1662.00
150 169 055	53	1815.00
150 169 056	53	2039.00
150 169 057	53	2280.00
150 169 058	53	2690.00
150 169 073	53	1554.00
150 169 074	53	1662.00
150 169 075	53	1815.00
150 169 076	53	2039.00
150 169 077	53	2280.00
150 169 078	53	2690.00
150 170 000	50	1126.00
150 170 001	50	1128.00
150 170 002	50	1143.00
150 170 003	50	1170.00
150 170 004	50	1189.00
150 170 005	50	1266.00
150 170 006	50	1309.00
150 170 007	50	1136.00
150 170 008	50	1139.00
150 170 009	50	1154.00
150 170 010	50	1183.00
150 170 011	50	1208.00
150 170 012	50	1290.00
150 170 013	50	1347.00
150 170 014	50	1126.00
150 170 015	50	1128.00
150 170 016	50	1143.00
150 170 017	50	1170.00
150 170 018	50	1189.00
150 170 019	50	1266.00
150 170 020	50	1309.00
150 170 021	50	1136.00
150 170 022	50	1139.00
150 170 023	50	1154.00
150 170 024	50	1183.00
150 170 025	50	1208.00
150 170 026	50	1290.00
150 170 027	50	1347.00
150 170 572	50	1126.00
150 170 573	50	1128.00
150 170 574	50	1143.00
150 170 575	50	1170.00
150 170 576	50	1189.00
150 170 577	50	1266.00
150 170 578	50	1309.00

Part Number Page List Price

150 170 582	50	1136.00
150 170 583	50	1139.00
150 170 584	50	1154.00
150 170 585	50	1183.00
150 170 586	50	1208.00
150 170 587	50	1290.00
150 170 588	50	1347.00
150 170 692	50	1126.00
150 170 693	50	1128.00
150 170 694	50	1143.00
150 170 695	50	1170.00
150 170 696	50	1189.00
150 170 697	50	1266.00
150 170 698	50	1309.00
150 170 702	50	1136.00
150 170 703	50	1139.00
150 170 704	50	1154.00
150 170 705	50	1183.00
150 170 706	50	1208.00
150 170 707	50	1290.00
150 170 708	50	1347.00
150 180 333	44	1170.00
150 180 334	44	1188.00
150 180 335	44	1212.00
150 180 336	44	1256.00
150 180 337	44	1294.00
150 180 338	44	1376.00
150 180 339	44	2448.00
150 180 340	44	2599.00
150 180 341	44	2777.00
150 181 052	45	1223.00
150 181 053	45	1236.00
150 181 054	45	1288.00
150 181 055	45	1364.00
150 181 056	45	1467.00
150 181 057	45	1665.00
150 181 058	45	1909.00
150 181 059	45	3852.00
150 181 060	45	4623.00
150 181 061	45	5318.00
150 181 153	45	1236.00
150 181 154	45	1288.00
150 181 155	45	1364.00
150 181 156	45	1467.00
150 181 157	45	1665.00
150 181 158	45	1909.00
150 181 159	45	3852.00
150 181 160	45	4623.00

Part Number Page List Price

150 181 161	45	5318.00
150 182 083	43	1108.00
150 182 084	43	1115.00
150 182 085	43	1140.00
150 182 086	43	1184.00
150 182 087	43	1201.00
150 182 088	43	1210.00
150 182 089	43	1935.00
150 182 090	43	2004.00
150 182 091	43	2087.00
150 182 093	43	1115.00
150 182 094	43	1130.00
150 182 095	43	1159.00
150 182 096	43	1209.00
150 182 097	43	1222.00
150 182 098	43	1240.00
150 182 099	43	1956.00
150 182 100	43	2039.00
150 182 101	43	2130.00
150 182 103	43	1108.00
150 182 104	43	1115.00
150 182 105	43	1140.00
150 182 106	43	1184.00
150 182 107	43	1201.00
150 182 108	43	1210.00
150 182 109	43	1935.00
150 182 110	43	2004.00
150 182 111	43	2087.00
150 182 113	43	1115.00
150 182 114	43	1130.00
150 182 115	43	1159.00
150 182 116	43	1209.00
150 182 117	43	1222.00
150 182 118	43	1240.00
150 182 119	43	1956.00
150 182 120	43	2039.00
150 182 121	43	2130.00
150 182 483	44	1130.00
150 182 484	44	1142.00
150 182 485	44	1180.00
150 182 486	44	1240.00
150 182 487	44	1259.00
150 182 488	44	1358.00
150 182 489	44	2167.00
150 182 490	44	2280.00
150 182 491	44	2401.00
150 182 493	44	1145.00
150 182 494	44	1159.00

Part Number Page List Price

150 182 495	44	1201.00
150 182 496	44	1259.00
150 182 497	44	1271.00
150 182 498	44	1394.00
150 182 499	44	2225.00
150 182 500	44	2362.00
150 182 501	44	2491.00
150 182 503	44	1130.00
150 182 504	44	1142.00
150 182 505	44	1180.00
150 182 506	44	1240.00
150 182 507	44	1259.00
150 182 508	44	1358.00
150 182 509	44	2167.00
150 182 510	44	2280.00
150 182 511	44	2401.00
150 182 513	44	1145.00
150 182 514	44	1159.00
150 182 515	44	1201.00
150 182 516	44	1259.00
150 182 517	44	1271.00
150 182 518	44	1394.00
150 182 519	44	2225.00
150 182 520	44	2362.00
150 182 521	44	2491.00
150 190 001	108	3328.00
150 190 011	108	2835.00
150 190 108	76	1911.00
150 190 118	76	1688.00
150 240 169	85	5163.00
150 240 170	85	6399.00
150 240 189	85	5360.00
150 240 190	85	6378.00
150 240 209	85	5163.00
150 240 210	85	6399.00
150 240 229	85	5360.00
150 240 230	85	6378.00
150 240 249	85	4083.00
150 240 250	85	5113.00
150 240 269	85	4083.00
150 240 270	85	5114.00
150 300 050	49	31.00
150 300 103	49	570.00
150 300 104	49	535.00
150 319 100	7	191.00
150 319 101	7	195.00
150 319 102	7	210.00
150 319 103	7	195.00

Part Number Page List Price

150 319 104	7	210.00
150 319 105	7	248.00
150 319 106	7	257.00
150 319 107	7	265.00
150 319 108	7	329.00
150 319 109	7	255.00
150 319 110	7	277.00
150 319 111	7	315.00
150 319 112	7	344.00
150 319 113	7	315.00
150 319 114	7	357.00
150 319 115	7	390.00
150 319 116	7	461.00
150 319 117	7	680.00
150 319 119	7	202.00
150 319 120	7	263.00
150 319 121	7	303.00
150 319 122	7	167.00
150 319 123	7	461.00
150 319 125	7	850.00
150 319 126	7	1085.00
150 319 127	7	1391.00
150 319 128	7	1003.00
150 319 129	7	1163.00
150 319 130	7	1859.00
150 319 131	7	223.00
150 319 132	7	200.00
150 336 000	116	246.00
150 336 001	116	246.00
150 336 002	116	342.00
150 336 003	116	342.00
150 336 004	116	342.00
150 336 005	116	342.00
150 336 006	116	342.00
150 336 007	116	502.00
150 336 008	116	502.00
150 336 009	116	502.00
150 336 010	116	862.00
150 336 011	116	862.00
150 336 012	116	862.00
150 336 020	116	324.00
150 336 021	116	324.00
150 336 022	116	473.00
150 336 023	116	473.00
150 336 024	116	473.00
150 336 025	116	473.00
150 336 026	116	473.00
150 336 027	116	791.00

Part Number Page List Price

150 336 028	116	791.00
150 336 029	116	791.00
150 336 030	116	1161.00
150 336 031	116	1161.00
150 336 032	116	1161.00
150 336 040	116	252.00
150 336 041	116	252.00
150 336 042	116	336.00
150 336 043	116	336.00
150 336 044	116	336.00
150 336 045	116	336.00
150 336 046	116	366.00
150 336 047	116	535.00
150 336 048	116	535.00
150 336 049	116	535.00
150 336 050	116	848.00
150 336 051	116	885.00
150 336 052	116	885.00
150 336 060	116	335.00
150 336 061	116	335.00
150 336 062	116	477.00
150 336 063	116	477.00
150 336 064	116	477.00
150 336 065	116	477.00
150 336 066	116	477.00
150 336 067	116	791.00
150 336 068	116	791.00
150 336 069	116	791.00
150 336 070	116	1350.00
150 336 071	116	1350.00
150 336 072	116	1350.00
150 336 080	117	229.00
150 336 081	117	229.00
150 336 082	117	320.00
150 336 083	117	320.00
150 336 084	117	320.00
150 336 085	117	320.00
150 336 086	117	320.00
150 336 087	117	491.00
150 336 088	117	491.00
150 336 089	117	491.00
150 336 090	117	797.00
150 336 091	117	797.00
150 336 092	117	797.00
150 336 100	117	298.00
150 336 101	117	298.00
150 336 102	117	423.00
150 336 103	117	423.00

Part Number Page List Price

150 336 104	117	423.00
150 336 105	117	423.00
150 336 106	117	423.00
150 336 107	117	491.00
150 336 108	117	656.00
150 336 109	117	656.00
150 336 110	117	976.00
150 336 111	117	1145.00
150 336 112	117	1145.00
150 336 120	117	226.00
150 336 121	117	226.00
150 336 122	117	316.00
150 336 123	117	316.00
150 336 124	117	316.00
150 336 125	117	316.00
150 336 126	117	316.00
150 336 127	117	480.00
150 336 128	117	480.00
150 336 129	117	480.00
150 336 130	117	918.00
150 336 131	117	918.00
150 336 132	117	918.00
150 336 140	117	352.00
150 336 141	117	352.00
150 336 142	117	442.00
150 336 143	117	442.00
150 336 144	117	442.00
150 336 145	117	442.00
150 336 146	117	442.00
150 336 147	117	679.00
150 336 148	117	679.00
150 336 149	117	679.00
150 336 150	117	1295.00
150 336 151	117	1295.00
150 336 152	117	1295.00
150 336 160	115	246.00
150 336 161	115	246.00
150 336 162	115	342.00
150 336 163	115	342.00
150 336 164	115	342.00
150 336 165	115	342.00
150 336 166	115	342.00
150 336 167	115	502.00
150 336 168	115	502.00
150 336 169	115	502.00
150 336 170	115	862.00
150 336 171	115	862.00
150 336 172	115	862.00

Part Number Page List Price

150 336 180	115	324.00
150 336 181	115	324.00
150 336 182	115	473.00
150 336 183	115	473.00
150 336 184	115	473.00
150 336 185	115	473.00
150 336 186	115	473.00
150 336 187	115	791.00
150 336 188	115	791.00
150 336 189	115	791.00
150 336 190	115	1161.00
150 336 191	115	1161.00
150 336 192	115	1161.00
150 336 200	115	252.00
150 336 201	115	252.00
150 336 202	115	336.00
150 336 203	115	336.00
150 336 204	115	336.00
150 336 205	115	336.00
150 336 206	115	366.00
150 336 207	115	535.00
150 336 208	115	535.00
150 336 209	115	535.00
150 336 210	115	848.00
150 336 211	115	885.00
150 336 212	115	885.00
150 336 220	115	335.00
150 336 221	115	335.00
150 336 222	115	477.00
150 336 223	115	477.00
150 336 224	115	477.00
150 336 225	115	477.00
150 336 226	115	477.00
150 336 227	115	791.00
150 336 228	115	791.00
150 336 229	115	791.00
150 336 230	115	1350.00
150 336 231	115	1350.00
150 336 232	115	1350.00
150 369 310	30	1126.00
150 369 312	30	1690.00
150 369 340	30	254.00
150 369 360	30	421.00
150 369 380	30	619.00
150 481 025	35	43.00
150 481 032	35	50.00
150 481 040	35	97.00
150 481 050	35	119.00

Part Number Page List Price

150 481 063	35	170.00
150 483 491	18	735.00
150 483 492	18	1094.00
150 486 400	8	186.00
150 486 401	8	229.00
150 486 402	8	234.00
150 486 403	8	270.00
150 486 404	8	296.00
150 486 405	8	324.00
150 486 406	8	595.00
150 486 407	8	632.00
150 486 408	8	837.00
150 486 410	8	363.00
150 486 411	8	435.00
150 486 412	8	558.00
150 486 413	8	823.00
150 486 414	8	1409.00
150 486 415	8	1775.00
150 486 416	8	2433.00
150 486 417	8	3416.00
150 486 418	8	4443.00
150 486 420	8	427.00
150 486 421	8	510.00
150 486 422	8	652.00
150 486 423	8	957.00
150 486 424	8	1638.00
150 486 425	8	2066.00
150 486 426	8	2827.00
150 486 427	8	3988.00
150 486 428	8	4833.00
150 514 612	20	232.00
150 514 613	20	246.00
150 514 614	20	357.00
150 514 615	20	490.00
150 514 616	20	490.00
150 514 617	20	599.00
150 563 002	89	453.00
150 563 003	89	470.00
150 563 004	89	470.00
150 563 005	89	585.00
150 563 006	89	807.00
150 563 007	89	807.00
150 563 008	89	1122.00
150 563 012	89	453.00
150 563 013	89	470.00
150 563 014	89	470.00
150 563 015	89	585.00
150 563 016	89	807.00

Part Number Page List Price

150 563 017	89	807.00
150 563 018	89	1122.00
150 563 022	89	421.00
150 563 023	89	439.00
150 563 024	89	439.00
150 563 032	89	514.00
150 563 033	89	639.00
150 563 034	89	639.00
150 563 035	89	643.00
150 563 036	89	943.00
150 563 037	89	943.00
150 563 038	89	1305.00
150 563 039	89	2542.00
150 563 040	89	3583.00
150 563 042	89	514.00
150 563 043	89	581.00
150 563 044	89	581.00
150 563 045	89	643.00
150 563 046	89	943.00
150 563 047	89	943.00
150 563 048	89	1305.00
150 563 049	89	2878.00
150 563 050	89	3495.00
150 563 052	89	419.00
150 563 053	89	452.00
150 563 054	89	452.00
150 563 055	89	501.00
150 563 056	89	683.00
150 563 057	89	683.00
150 563 058	89	888.00
150 563 059	89	1769.00
150 563 060	89	2553.00
150 563 070	64	755.00
150 563 071	64	787.00
150 563 072	64	794.00
150 563 078	64	2881.00
150 563 080	64	1101.00
150 563 081	64	1108.00
150 563 082	64	1118.00
150 563 083	64	1125.00
150 563 084	64	1191.00
150 563 085	64	1191.00
150 563 086	64	1695.00
150 563 087	64	2359.00
150 567 001	92	653.00
150 567 002	92	653.00
150 567 003	92	653.00
150 567 004	92	653.00

Part Number Page List Price

150 567 005	92	653.00
150 900 113	31	183.00
150 900 116	31	238.00
150 900 117	31	238.00
150 900 120	31	183.00
150 900 122	31	238.00
150 900 454	19	179.00
150 900 456	19	179.00
150 900 457	19	113.00
150 900 459	19	113.00
150 901 454	19	179.00
151 375 002	9	86.00
151 375 003	9	94.00
151 375 004	9	104.00
151 375 005	9	122.00
151 375 006	9	139.00
151 375 007	9	183.00
151 375 008	9	351.00
151 375 009	9	436.00
151 375 010	9	640.00
151 375 017	9	96.00
151 375 018	9	104.00
151 375 019	9	122.00
151 375 020	9	147.00
151 375 021	9	176.00
151 375 022	9	229.00
151 375 023	9	436.00
151 375 024	9	534.00
151 375 025	9	747.00
151 546 341	3	99.00
151 546 342	3	101.00
151 546 343	3	116.00
151 546 344	3	130.00
151 546 345	3	155.00
151 546 346	3	189.00
151 546 347	3	230.00
151 546 348	3	502.00
151 546 349	3	594.00
151 546 350	3	774.00
151 546 351	3	116.00
151 546 352	3	117.00
151 546 353	3	128.00
151 546 354	3	151.00
151 546 355	3	180.00
151 546 356	3	218.00
151 546 357	3	282.00
151 546 358	3	592.00
151 546 359	3	714.00

Part Number Page List Price

151 546 360	3	938.00
153 203 620	123	12.00
153 203 621	42	16.00
153 203 622	123	20.00
153 203 623	123	31.00
153 203 624	123	26.00
153 203 625	123	26.00
153 319 100	7	295.00
153 319 101	7	317.00
153 319 102	7	366.00
153 319 103	7	331.00
153 319 104	7	379.00
153 319 105	7	407.00
153 319 106	7	377.00
153 319 107	7	461.00
153 319 108	7	543.00
153 319 109	7	511.00
153 319 110	7	561.00
153 319 111	7	639.00
153 319 112	7	700.00
153 319 113	7	688.00
153 319 114	7	769.00
153 319 115	7	915.00
153 319 116	7	1162.00
153 319 117	7	1162.00
153 319 123	7	1571.00
153 319 124	7	1259.00
153 319 125	7	1259.00
153 319 126	7	1881.00
153 319 127	7	1881.00
153 319 128	7	1571.00
153 375 002	9	90.00
153 375 003	9	116.00
153 375 004	9	129.00
153 375 005	9	158.00
153 375 006	9	194.00
153 375 007	9	272.00
153 375 017	9	115.00
153 375 018	9	135.00
153 375 019	9	156.00
153 375 020	9	218.00
153 375 021	9	234.00
153 375 022	9	328.00
153 514 612	20	354.00
153 514 613	20	389.00
153 514 614	20	487.00
153 514 615	20	600.00
153 514 616	20	675.00

Part Number Page List Price

153 514 617	20	761.00
153 546 341	4	145.00
153 546 342	4	148.00
153 546 343	4	166.00
153 546 344	4	194.00
153 546 345	4	234.00
153 546 346	4	273.00
153 546 347	4	329.00
153 546 348	4	787.00
153 546 349	4	970.00
153 546 350	4	1160.00
153 546 351	4	154.00
153 546 352	4	156.00
153 546 353	4	184.00
153 546 354	4	220.00
153 546 355	4	269.00
153 546 356	4	316.00
153 546 357	4	406.00
153 546 358	4	904.00
153 546 359	4	1116.00
153 546 360	4	1338.00
155 203 611	42	32.00
155 203 612	42	52.00
155 203 614	42	75.00
155 203 615	42	93.00
155 522 554	31	140.00
155 522 555	31	140.00
155 522 556	31	140.00
155 522 579	31	126.00
155 522 581	31	126.00
157 203 603	42	25.00
157 203 604	42	28.00
157 203 606	42	31.00
157 203 607	42	35.00
157 319 106	7	482.00
157 319 107	7	482.00
157 319 110	7	534.00
157 319 113	7	563.00
157 319 120	7	534.00
157 319 121	7	563.00
157 319 123	7	749.00
157 319 124	7	838.00
157 319 206	7	497.00
157 319 207	7	497.00
157 319 210	7	549.00
157 319 213	7	581.00
157 319 220	7	549.00
157 319 221	7	581.00

Part Number Page List Price

157 319 223	7	779.00
157 319 224	7	868.00
157 522 556	31	122.00
157 522 581	31	122.00
157 546 442	5	152.00
157 546 443	5	177.00
157 546 444	5	189.00
157 546 445	5	208.00
157 546 446	5	250.00
157 546 447	5	305.00
157 546 452	5	164.00
157 546 453	5	181.00
157 546 454	5	209.00
157 546 455	5	250.00
157 546 456	5	314.00
157 546 457	5	375.00
160 365 318	18	1862.00
160 365 320	18	2174.00
160 365 321	18	2298.00
160 365 323	18	3291.00
160 365 500	18	2336.00
160 365 501	18	2468.00
160 365 503	18	3540.00
160 365 504	18	5153.00
160 365 505	18	7016.00
160 365 506	18	8694.00
161 050 053	30	151.00
161 050 186	30	49.00
161 050 187	30	51.00
161 050 188	30	64.00
161 050 189	30	75.00
161 050 190	30	113.00
161 050 191	30	130.00
161 305 336	32	6.00
161 305 337	32	6.00
161 305 338	32	6.00
161 305 339	32	6.00
161 305 386	32	6.00
161 305 387	32	6.00
161 305 388	32	6.00
161 305 389	32	7.00
161 305 436	32	6.00
161 305 437	32	7.00
161 305 438	32	6.00
161 305 439	32	8.00
161 305 486	32	8.00
161 305 487	32	8.00
161 305 488	32	8.00

Part Number Page List Price

161 305 489	32	9.00
161 305 536	32	10.00
161 305 537	32	9.00
161 305 538	32	9.00
161 305 539	32	10.00
161 305 586	32	13.00
161 305 587	32	12.00
161 305 588	32	19.00
161 305 589	32	19.00
161 305 654	32	38.00
161 305 686	32	23.00
161 305 687	32	23.00
161 305 688	32	24.00
161 305 689	32	24.00
161 317 024	20	865.00
161 317 027	20	3097.00
161 317 039	20	1351.00
161 317 042	20	4881.00
161 317 069	20	1283.00
161 317 072	20	4636.00
161 317 325	20	1207.00
161 317 340	20	1904.00
161 317 370	20	1809.00
161 317 623	20	653.00
161 317 638	20	1010.00
161 317 668	20	959.00
161 324 200	10	63.00
161 324 454	10	63.00
161 355 362	10	29.00
161 355 363	10	32.00
161 355 364	10	45.00
161 355 365	10	63.00
161 355 366	10	77.00
161 355 367	10	99.00
161 355 382	10	29.00
161 355 383	10	32.00
161 355 384	10	45.00
161 355 385	10	63.00
161 355 386	10	77.00
161 355 387	10	98.00
161 369 003	30	158.00
161 369 004	30	168.00
161 369 005	30	204.00
161 369 006	30	220.00
161 369 007	30	258.00
161 369 010	30	374.00
161 369 011	30	472.00
161 369 012	30	716.00

Part Number Page List Price

161 369 013	30	1011.00
161 369 023	30	258.00
161 369 024	30	274.00
161 369 025	30	335.00
161 369 026	30	374.00
161 369 027	30	442.00
161 369 030	30	610.00
161 369 031	30	722.00
161 369 032	30	1066.00
161 369 033	30	1415.00
161 369 043	30	258.00
161 369 044	30	274.00
161 369 045	30	320.00
161 369 046	30	343.00
161 369 047	30	382.00
161 369 050	30	519.00
161 369 051	30	640.00
161 369 052	30	913.00
161 369 053	30	1281.00
161 369 063	30	356.00
161 369 064	30	382.00
161 369 065	30	449.00
161 369 066	30	496.00
161 369 067	30	565.00
161 369 070	30	761.00
161 369 071	30	899.00
161 369 072	30	1247.00
161 369 073	30	1653.00
161 369 083	30	304.00
161 369 084	30	328.00
161 369 085	30	366.00
161 369 086	30	388.00
161 369 087	30	442.00
161 369 090	30	587.00
161 369 091	30	700.00
161 369 092	30	1021.00
161 369 093	30	1389.00
161 369 103	30	403.00
161 369 104	30	433.00
161 369 105	30	496.00
161 369 106	30	546.00
161 369 107	30	624.00
161 369 110	30	822.00
161 369 111	30	958.00
161 369 112	30	1361.00
161 369 113	30	1767.00
161 375 002	9	50.00
161 375 003	9	56.00

Part Number Page List Price

161 375 004	9	66.00
161 375 005	9	86.00
161 375 006	9	100.00
161 375 007	9	145.00
161 375 008	9	305.00
161 375 009	9	389.00
161 375 010	9	589.00
161 375 017	9	58.00
161 375 018	9	66.00
161 375 019	9	84.00
161 375 020	9	107.00
161 375 021	9	136.00
161 375 022	9	187.00
161 375 023	9	389.00
161 375 024	9	484.00
161 375 025	9	690.00
161 375 062	9	155.00
161 375 063	9	154.00
161 375 064	9	168.00
161 375 065	9	179.00
161 375 066	9	202.00
161 375 067	9	248.00
161 375 068	9	393.00
161 375 069	9	504.00
161 375 070	9	756.00
161 375 077	9	165.00
161 375 078	9	179.00
161 375 079	9	204.00
161 375 080	9	227.00
161 375 081	9	249.00
161 375 082	9	313.00
161 375 083	9	491.00
161 375 084	9	592.00
161 375 085	9	911.00
161 375 427	36	2.00
161 375 428	36	2.00
161 375 429	36	2.00
161 375 430	36	2.00
161 375 431	36	3.00
161 375 432	36	5.00
161 375 433	36	9.00
161 375 434	36	29.00
161 375 435	36	34.00
161 375 436	36	42.00
161 375 437	36	3.00
161 375 438	36	4.00
161 375 439	36	5.00
161 375 440	36	6.00

Part Number Page List Price

161 375 441	36	9.00
161 375 442	36	17.00
161 375 443	36	24.00
161 375 444	36	34.00
161 375 445	36	40.00
161 375 446	36	52.00
161 480 231	41	127.00
161 480 232	41	137.00
161 480 233	41	153.00
161 480 240	41	440.00
161 480 241	41	475.00
161 480 242	41	576.00
161 481 028	41	70.00
161 481 029	41	84.00
161 481 030	41	141.00
161 481 098	41	433.00
161 481 099	41	471.00
161 481 100	41	570.00
161 481 102	41	2533.00
161 481 932	41	544.00
161 481 933	41	761.00
161 481 934	41	892.00
161 482 017	32	2.00
161 482 018	32	2.00
161 482 019	32	2.00
161 482 020	32	3.00
161 482 021	32	3.00
161 482 022	32	3.00
161 482 751	41	817.00
161 482 754	41	573.00
161 482 760	41	3244.00
161 483 126	32	21.00
161 483 127	32	24.00
161 483 128	32	39.00
161 483 129	32	50.00
161 483 130	32	60.00
161 483 131	32	68.00
161 483 133	32	102.00
161 483 471	18	305.00
161 483 472	18	483.00
161 484 458	41	526.00
161 484 459	41	644.00
161 484 460	41	840.00
161 485 132	30	11.00
161 485 133	30	12.00
161 485 134	30	17.00
161 485 135	30	23.00
161 485 136	30	30.00

Part Number Page List Price

161 485 137	30	59.00
161 485 138	30	72.00
161 485 139	30	88.00
161 485 142	30	114.00
161 485 143	30	123.00
161 485 144	30	146.00
161 485 145	30	184.00
161 485 146	30	260.00
161 485 147	30	320.00
161 485 148	30	415.00
161 485 149	30	477.00
161 485 152	30	56.00
161 485 153	30	61.00
161 485 154	30	75.00
161 485 155	30	92.00
161 485 156	30	130.00
161 485 157	30	260.00
161 485 158	30	325.00
161 485 159	30	390.00
161 486 006	66	731.00
161 486 007	66	710.00
161 486 008	66	731.00
161 486 009	18	317.00
161 486 010	66	317.00
161 486 100	32	11.00
161 486 101	32	17.00
161 486 102	32	17.00
161 486 103	32	20.00
161 486 104	32	23.00
161 486 105	32	26.00
161 486 107	32	49.00
161 486 301	66	731.00
161 486 302	66	710.00
161 486 303	66	731.00
161 486 304	18	317.00
161 486 305	66	317.00
161 486 325	19	116.00
161 486 326	19	123.00
161 486 327	19	123.00
161 486 328	19	248.00
161 486 375	38	42.00
161 486 376	38	45.00
161 486 377	38	54.00
161 486 378	38	60.00
161 486 379	38	72.00
161 486 380	38	101.00
161 486 381	38	241.00
161 486 382	38	301.00

Part Number Page List Price

161 486 383	38	363.00
161 486 385	38	50.00
161 486 386	38	60.00
161 486 387	38	66.00
161 486 388	38	80.00
161 486 389	38	96.00
161 486 390	38	141.00
161 486 391	38	315.00
161 486 392	38	391.00
161 486 393	38	470.00
161 486 400	37	34.00
161 486 401	37	38.00
161 486 402	37	48.00
161 486 403	37	56.00
161 486 404	37	66.00
161 486 405	37	78.00
161 486 406	37	190.00
161 486 407	37	241.00
161 486 408	37	289.00
161 486 410	37	37.00
161 486 411	37	54.00
161 486 412	37	67.00
161 486 413	37	93.00
161 486 414	37	100.00
161 486 415	37	146.00
161 486 416	37	376.00
161 486 417	37	504.00
161 486 418	37	650.00
161 486 443	8	21.00
161 486 444	8	21.00
161 486 445	8	24.00
161 486 446	8	24.00
161 486 689	40	53.00
161 486 690	19	78.00
161 486 691	19	90.00
161 486 694	19	107.00
161 486 695	19	139.00
161 486 697	19	271.00
161 486 855	66	731.00
161 486 856	66	710.00
161 486 857	66	731.00
161 486 858	18	317.00
161 486 859	66	317.00
161 488 162	39	63.00
161 488 163	39	71.00
161 488 164	39	72.00
161 488 165	39	78.00
161 488 166	39	90.00

Part Number Page List Price

161 488 167	39	97.00
161 488 172	39	64.00
161 488 173	39	72.00
161 488 174	39	77.00
161 488 175	39	82.00
161 488 176	39	94.00
161 488 177	39	99.00
161 488 182	39	61.00
161 488 183	39	68.00
161 488 184	39	70.00
161 488 185	39	75.00
161 488 186	39	85.00
161 488 187	39	91.00
161 488 192	39	61.00
161 488 193	39	70.00
161 488 194	39	72.00
161 488 195	39	80.00
161 488 196	39	90.00
161 488 197	39	94.00
161 488 202	38	61.00
161 488 203	38	70.00
161 488 204	38	85.00
161 488 205	38	99.00
161 488 206	38	115.00
161 488 207	38	145.00
161 488 212	38	66.00
161 488 213	38	80.00
161 488 214	38	94.00
161 488 215	38	111.00
161 488 216	38	123.00
161 488 217	38	156.00
161 488 222	38	61.00
161 488 223	38	70.00
161 488 224	38	85.00
161 488 225	38	99.00
161 488 226	38	115.00
161 488 227	38	145.00
161 488 232	38	66.00
161 488 233	38	80.00
161 488 234	38	94.00
161 488 235	38	111.00
161 488 236	38	123.00
161 488 237	38	156.00
161 488 242	37	34.00
161 488 243	37	35.00
161 488 244	37	45.00
161 488 245	37	48.00
161 488 246	37	49.00

Part Number Page List Price

161 488 247	37	60.00
161 488 248	37	49.00
161 488 249	37	52.00
161 488 250	37	75.00
161 488 251	37	72.00
161 488 252	37	90.00
161 488 253	37	91.00
161 489 131	114	303.00
161 489 133	114	367.00
161 489 136	114	475.00
161 489 161	114	257.00
161 489 163	114	284.00
161 489 166	114	469.00
161 489 231	114	339.00
161 489 233	114	379.00
161 489 236	114	501.00
161 489 261	114	314.00
161 489 263	114	296.00
161 489 266	114	509.00
161 490 538	36	5.00
161 490 539	36	5.00
161 490 540	36	8.00
161 490 541	36	11.00
161 490 542	36	19.00
161 490 543	36	30.00
161 490 544	36	72.00
161 490 545	36	93.00
161 490 546	36	113.00
161 490 712	35	2.00
161 490 713	35	2.00
161 490 714	35	2.00
161 490 715	35	3.00
161 490 716	35	4.00
161 490 717	35	8.00
161 490 718	35	19.00
161 490 719	35	38.00
161 490 720	35	50.00
161 490 721	35	60.00
161 490 723	35	4.00
161 490 724	35	5.00
161 490 725	35	8.00
161 490 726	35	9.00
161 490 727	35	17.00
161 490 728	35	23.00
161 490 729	35	31.00
161 490 730	35	71.00
161 490 731	35	155.00
161 490 732	35	346.00

Part Number Page List Price

161 491 032	6	198.00
161 491 033	6	203.00
161 491 034	6	209.00
161 491 035	6	233.00
161 491 036	6	256.00
161 491 037	6	267.00
161 514 612	20	135.00
161 514 613	20	149.00
161 514 614	20	190.00
161 514 615	20	295.00
161 514 616	20	298.00
161 514 617	20	343.00
161 514 632	20	220.00
161 514 633	20	234.00
161 514 634	20	342.00
161 514 635	20	466.00
161 514 636	20	466.00
161 514 637	20	570.00
161 514 662	20	210.00
161 514 663	20	223.00
161 514 664	20	324.00
161 514 665	20	443.00
161 514 666	20	443.00
161 514 667	20	541.00
161 517 612	20	172.00
161 517 613	20	198.00
161 517 614	20	242.00
161 517 615	20	365.00
161 517 616	20	386.00
161 517 617	20	451.00
161 517 632	20	300.00
161 517 633	20	329.00
161 517 634	20	423.00
161 517 635	20	538.00
161 517 636	20	542.00
161 517 637	20	672.00
161 517 662	20	286.00
161 517 663	20	314.00
161 517 664	20	403.00
161 517 665	20	511.00
161 517 666	20	516.00
161 517 667	20	638.00
161 523 521	10	105.00
161 523 522	10	111.00
161 523 531	10	117.00
161 523 532	10	119.00
161 543 081	11	101.00
161 543 082	11	102.00

Part Number Page List Price

161 543 083	11	122.00
161 543 084	11	150.00
161 543 085	11	175.00
161 543 086	11	200.00
161 543 087	11	245.00
161 543 091	11	115.00
161 543 092	11	117.00
161 543 093	11	135.00
161 543 094	11	166.00
161 543 095	11	194.00
161 543 096	11	223.00
161 543 097	11	289.00
161 543 101	11	101.00
161 543 102	11	105.00
161 543 103	11	122.00
161 543 104	11	151.00
161 543 105	11	175.00
161 543 106	11	200.00
161 543 107	11	253.00
161 543 111	11	115.00
161 543 112	11	117.00
161 543 113	11	138.00
161 543 114	11	169.00
161 543 115	11	194.00
161 543 116	11	234.00
161 543 117	11	301.00
161 543 281	11	101.00
161 543 282	11	102.00
161 543 283	11	122.00
161 543 284	11	150.00
161 543 285	11	175.00
161 543 286	11	200.00
161 543 287	11	245.00
161 543 291	11	115.00
161 543 292	11	117.00
161 543 293	11	135.00
161 543 294	11	166.00
161 543 295	11	194.00
161 543 296	11	223.00
161 543 297	11	289.00
161 543 301	11	101.00
161 543 302	11	105.00
161 543 303	11	122.00
161 543 304	11	151.00
161 543 305	11	175.00
161 543 306	11	200.00
161 543 307	11	253.00
161 543 311	11	115.00

Part Number Page List Price

161 543 312	11	117.00
161 543 313	11	135.00
161 543 314	11	169.00
161 543 315	11	194.00
161 543 316	11	234.00
161 543 317	11	303.00
161 543 661	11	100.00
161 543 662	11	102.00
161 543 663	11	120.00
161 543 664	11	148.00
161 543 665	11	176.00
161 543 666	11	203.00
161 543 667	11	253.00
161 543 671	11	114.00
161 543 672	11	115.00
161 543 673	11	131.00
161 543 674	11	165.00
161 543 675	11	195.00
161 543 676	11	227.00
161 543 677	11	292.00
161 543 681	11	100.00
161 543 682	11	102.00
161 543 683	11	120.00
161 543 684	11	148.00
161 543 685	11	176.00
161 543 686	11	203.00
161 543 687	11	253.00
161 543 691	11	114.00
161 543 692	11	115.00
161 543 693	11	131.00
161 543 694	11	165.00
161 543 695	11	195.00
161 543 696	11	227.00
161 543 697	11	292.00
161 546 168	3	629.00
161 546 169	3	740.00
161 546 170	3	969.00
161 546 178	3	715.00
161 546 179	3	857.00
161 546 180	3	1134.00
161 546 341	3	65.00
161 546 342	3	67.00
161 546 343	3	80.00
161 546 344	3	96.00
161 546 345	3	120.00
161 546 346	3	154.00
161 546 347	3	195.00
161 546 348	3	468.00

Part Number Page List Price

161 546 349	3	560.00
161 546 350	3	739.00
161 546 351	3	80.00
161 546 352	3	81.00
161 546 353	3	94.00
161 546 354	3	117.00
161 546 355	3	145.00
161 546 356	3	183.00
161 546 357	3	245.00
161 546 358	3	556.00
161 546 359	3	677.00
161 546 360	3	900.00
161 546 361	3	93.00
161 546 362	3	96.00
161 546 363	3	113.00
161 546 364	3	128.00
161 546 365	3	156.00
161 546 366	3	195.00
161 546 367	3	238.00
161 546 368	3	572.00
161 546 369	3	689.00
161 546 370	3	939.00
161 546 371	3	107.00
161 546 372	3	113.00
161 546 373	3	123.00
161 546 374	3	151.00
161 546 375	3	182.00
161 546 376	3	220.00
161 546 377	3	285.00
161 546 378	3	677.00
161 546 379	3	819.00
161 546 380	3	965.00
161 546 582	3	169.00
161 546 583	3	182.00
161 546 584	3	202.00
161 546 585	3	255.00
161 546 586	3	274.00
161 546 587	3	295.00
161 546 592	3	181.00
161 546 593	3	204.00
161 546 594	3	244.00
161 546 595	3	287.00
161 546 596	3	315.00
161 546 597	3	346.00
161 546 648	3	631.00
161 546 649	3	776.00
161 546 650	3	923.00
161 546 658	3	743.00

Part Number Page List Price

161 546 659	3	909.00
161 546 660	3	1072.00
161 561 101	25	54.00
161 561 102	25	54.00
161 561 103	25	63.00
161 561 104	25	66.00
161 561 105	25	82.00
161 561 106	25	100.00
161 561 107	25	145.00
161 561 108	25	339.00
161 561 109	25	401.00
161 561 110	25	943.00
161 561 111	25	64.00
161 561 112	25	64.00
161 561 113	25	67.00
161 561 114	25	81.00
161 561 115	25	97.00
161 561 116	25	128.00
161 561 117	25	188.00
161 561 118	25	407.00
161 561 119	25	506.00
161 561 120	25	1044.00
161 562 101	26	77.00
161 562 102	26	77.00
161 562 103	26	88.00
161 562 104	26	96.00
161 562 105	26	116.00
161 562 106	26	144.00
161 562 107	26	203.00
161 562 108	26	406.00
161 562 109	26	506.00
161 562 110	26	1319.00
161 562 111	26	91.00
161 562 112	26	91.00
161 562 113	26	102.00
161 562 114	26	113.00
161 562 115	26	135.00
161 562 116	26	167.00
161 562 117	26	238.00
161 562 118	26	474.00
161 562 119	26	593.00
161 562 120	26	1463.00
161 563 002	16	152.00
161 563 003	16	154.00
161 563 004	16	155.00
161 563 005	16	172.00
161 563 006	16	257.00
161 563 007	16	257.00

Part Number Page List Price

161 563 008	16	431.00
161 563 009	16	774.00
161 563 010	16	1488.00
161 563 042	16	447.00
161 563 043	16	454.00
161 563 044	16	466.00
161 563 045	16	482.00
161 563 046	16	573.00
161 563 047	16	573.00
161 563 048	16	667.00
161 563 049	16	774.00
161 563 050	16	1542.00
161 567 002	14	232.00
161 567 003	14	242.00
161 567 004	14	257.00
161 567 005	14	278.00
161 567 006	14	401.00
161 567 007	14	401.00
161 567 008	14	598.00
161 567 009	14	1854.00
161 567 010	14	2535.00
161 567 022	14	365.00
161 567 023	14	374.00
161 567 024	14	387.00
161 567 025	14	421.00
161 567 026	14	591.00
161 567 027	14	591.00
161 567 028	14	765.00
161 567 029	14	2739.00
161 567 030	14	3437.00
161 567 042	14	526.00
161 567 043	14	537.00
161 567 044	14	550.00
161 567 045	14	568.00
161 567 046	14	677.00
161 567 047	14	677.00
161 567 048	14	786.00
161 567 049	14	2102.00
161 567 050	14	2818.00
161 567 062	14	684.00
161 567 063	14	690.00
161 567 064	14	705.00
161 567 065	14	737.00
161 567 066	14	893.00
161 567 067	14	893.00
161 567 068	14	1060.00
161 567 069	14	3338.00
161 567 070	14	4118.00

Part Number Page List Price

161 578 102	16	680.00
161 578 103	16	703.00
161 578 104	16	703.00
161 578 105	16	1193.00
161 578 106	16	1554.00
161 578 107	16	1554.00
161 578 108	16	2099.00
161 578 109	16	3570.00
161 578 110	16	4285.00
161 578 122	16	800.00
161 578 123	16	826.00
161 578 124	16	826.00
161 578 125	16	1372.00
161 578 126	16	1827.00
161 578 127	16	1827.00
161 578 128	16	2468.00
161 578 129	16	4200.00
161 578 130	16	5040.00
161 578 142	16	1140.00
161 578 143	16	1180.00
161 578 144	16	1193.00
161 578 145	16	1645.00
161 578 146	16	1986.00
161 578 147	16	1998.00
161 578 148	16	2352.00
161 578 149	16	3797.00
161 578 150	16	4557.00
161 578 162	16	1267.00
161 578 163	16	1312.00
161 578 164	16	1325.00
161 578 165	16	1828.00
161 578 166	16	2207.00
161 578 167	16	2219.00
161 578 168	16	2613.00
161 578 169	16	4467.00
161 578 170	16	5697.00
161 582 202	2	560.00
161 582 203	110	755.00
161 582 204	2	879.00
161 582 205	110	944.00
161 582 206	2	1026.00
161 582 207	2	1292.00
161 582 212	2	610.00
161 582 213	110	808.00
161 582 214	2	937.00
161 582 215	110	1005.00
161 582 216	2	1064.00
161 582 217	2	1324.00

Part Number Page List Price

161 582 222	110	616.00
161 582 223	110	829.00
161 582 224	110	967.00
161 582 225	110	1037.00
161 582 226	110	1129.00
161 582 227	110	1421.00
161 582 232	110	672.00
161 582 233	110	889.00
161 582 234	110	1032.00
161 582 235	110	1106.00
161 582 236	110	1171.00
161 582 237	110	1456.00
161 582 602	110	643.00
161 582 603	110	867.00
161 582 604	110	1010.00
161 582 605	110	1085.00
161 582 606	110	1179.00
161 582 607	110	1485.00
161 582 612	110	702.00
161 582 613	110	933.00
161 582 614	110	1080.00
161 582 615	110	1157.00
161 582 616	110	1223.00
161 582 617	110	1522.00
161 586 202	2	381.00
161 586 203	112	453.00
161 586 204	2	523.00
161 586 205	112	627.00
161 586 206	2	703.00
161 586 207	2	863.00
161 586 212	2	420.00
161 586 213	112	497.00
161 586 214	2	567.00
161 586 215	112	674.00
161 586 216	2	756.00
161 586 217	2	927.00
161 586 602	112	438.00
161 586 603	112	523.00
161 586 604	112	600.00
161 586 605	112	720.00
161 586 606	112	809.00
161 586 607	112	995.00
161 586 612	112	477.00
161 586 613	112	565.00
161 586 614	112	645.00
161 586 615	112	768.00
161 586 616	112	861.00
161 586 617	112	1059.00

Part Number Page List Price

161 591 101	28	81.00
161 591 102	28	81.00
161 591 103	28	107.00
161 591 104	28	130.00
161 591 105	28	157.00
161 591 106	28	245.00
161 591 107	28	350.00
161 591 108	28	562.00
161 591 109	28	702.00
161 591 110	28	840.00
161 591 111	28	97.00
161 591 112	28	97.00
161 591 113	28	127.00
161 591 114	28	156.00
161 591 115	28	190.00
161 591 116	28	295.00
161 591 117	28	420.00
161 591 118	28	673.00
161 591 119	28	840.00
161 591 120	28	1009.00
161 595 101	29	97.00
161 595 102	29	97.00
161 595 103	29	127.00
161 595 104	29	156.00
161 595 105	29	190.00
161 595 106	29	295.00
161 595 107	29	420.00
161 595 108	29	673.00
161 595 109	29	840.00
161 595 110	29	1008.00
161 595 111	29	113.00
161 595 112	29	113.00
161 595 113	29	150.00
161 595 114	29	183.00
161 595 115	29	223.00
161 595 116	29	346.00
161 595 117	29	492.00
161 595 118	29	786.00
161 595 119	29	981.00
161 595 120	29	1176.00
161 604 612	94	259.00
161 614 613	94	291.00
161 614 614	94	335.00
161 614 615	94	416.00
161 614 616	94	480.00
161 614 617	94	588.00
161 624 612	1	306.00
161 624 613	94	343.00

Part Number Page List Price

161 624 614	1	395.00
161 624 615	94	490.00
161 624 616	1	565.00
161 624 617	1	690.00
161 624 632	1	382.00
161 624 633	94	411.00
161 624 634	1	437.00
161 624 635	94	546.00
161 624 636	1	654.00
161 624 637	1	833.00
161 624 662	1	363.00
161 624 663	94	389.00
161 624 664	1	415.00
161 624 665	94	522.00
161 624 666	1	621.00
161 624 667	1	792.00
161 627 612	94	354.00
161 627 613	94	380.00
161 627 614	94	404.00
161 627 615	94	504.00
161 627 616	94	604.00
161 627 617	94	771.00
161 627 632	94	465.00
161 627 633	94	493.00
161 627 634	94	524.00
161 627 635	94	654.00
161 627 636	94	816.00
161 627 637	94	999.00
161 627 662	94	442.00
161 627 663	94	467.00
161 627 664	94	497.00
161 627 665	94	621.00
161 627 666	94	774.00
161 627 667	94	949.00
161 644 612	95	229.00
161 644 613	95	245.00
161 644 614	95	258.00
161 644 615	95	324.00
161 644 616	95	408.00
161 644 617	95	498.00
161 644 632	95	289.00
161 644 633	95	308.00
161 644 634	95	329.00
161 644 635	95	413.00
161 644 636	95	520.00
161 644 637	95	624.00
161 644 662	95	274.00
161 644 663	95	292.00
161 644 664	95	314.00
161 644 665	95	391.00
161 644 666	95	494.00
161 644 667	95	594.00
161 657 612	95	252.00
161 657 613	95	279.00
161 657 614	95	287.00
161 657 615	95	356.00
161 657 616	95	450.00
161 657 617	95	545.00
161 657 632	95	356.00
161 657 633	95	385.00

Part Number Page List Price

161 644 664	95	296.00
161 644 665	95	372.00
161 644 666	95	467.00
161 644 667	95	562.00
161 647 612	95	247.00
161 647 613	95	265.00
161 647 614	95	282.00
161 647 615	95	350.00
161 647 616	95	442.00
161 647 617	95	535.00
161 647 632	95	333.00
161 647 633	95	356.00
161 647 634	95	377.00
161 647 635	95	474.00
161 647 636	95	594.00
161 647 637	95	718.00
161 647 662	95	316.00
161 647 663	95	339.00
161 647 664	95	356.00
161 647 665	95	450.00
161 647 666	95	564.00
161 647 667	95	682.00
161 654 612	95	229.00
161 654 613	95	245.00
161 654 614	95	258.00
161 654 615	95	324.00
161 654 616	95	408.00
161 654 617	95	498.00
161 654 632	95	289.00
161 654 633	95	308.00
161 654 634	95	329.00
161 654 635	95	413.00
161 654 636	95	520.00
161 654 637	95	624.00
161 654 662	95	274.00
161 654 663	95	292.00
161 654 664	95	314.00
161 654 665	95	391.00
161 654 666	95	494.00
161 654 667	95	594.00
161 657 612	95	252.00
161 657 613	95	279.00
161 657 614	95	287.00
161 657 615	95	356.00
161 657 616	95	450.00
161 657 617	95	545.00
161 657 632	95	356.00
161 657 633	95	385.00

Part Number Page List Price

161 657 634	95	407.00
161 657 635	95	505.00
161 657 636	95	641.00
161 657 637	95	774.00
161 657 662	95	339.00
161 657 663	95	366.00
161 657 664	95	386.00
161 657 665	95	481.00
161 657 666	95	609.00
161 657 667	95	735.00
161 684 612	96	383.00
161 684 613	96	398.00
161 684 614	96	426.00
161 684 615	96	519.00
161 684 616	96	644.00
161 684 617	96	787.00
161 684 632	96	467.00
161 684 633	96	493.00
161 684 634	96	526.00
161 684 635	96	659.00
161 684 636	96	825.00
161 684 637	96	1010.00
161 684 662	96	443.00
161 684 663	96	467.00
161 684 664	96	499.00
161 684 665	96	627.00
161 684 666	96	785.00
161 684 667	96	959.00
161 687 612	96	419.00
161 687 613	96	446.00
161 687 614	96	472.00
161 687 615	96	593.00
161 687 616	96	743.00
161 687 617	96	909.00
161 687 632	96	538.00
161 687 633	96	566.00
161 687 634	96	607.00
161 687 635	96	759.00
161 687 636	96	951.00
161 687 637	96	1160.00
161 687 662	96	511.00
161 687 663	96	537.00
161 687 664	96	575.00
161 687 665	96	721.00
161 687 666	96	904.00
161 687 667	96	1101.00
163 317 024	20	1589.00
163 317 039	20	2428.00

Part Number Page List Price

163 317 069	20	2307.00
163 317 325	20	2126.00
163 317 340	20	3213.00
163 317 370	20	3053.00
163 317 623	20	1040.00
163 317 638	20	1793.00
163 317 668	20	1704.00
163 375 002	9	55.00
163 375 003	9	81.00
163 375 004	9	96.00
163 375 005	9	122.00
163 375 006	9	160.00
163 375 007	9	241.00
163 375 017	9	80.00
163 375 018	9	99.00
163 375 019	9	121.00
163 375 020	9	183.00
163 375 021	9	204.00
163 375 022	9	297.00
163 375 062	9	172.00
163 375 063	9	198.00
163 375 064	9	230.00
163 375 065	9	241.00
163 375 066	9	298.00
163 375 067	9	404.00
163 375 077	9	197.00
163 375 078	9	218.00
163 375 079	9	248.00
163 375 080	9	296.00
163 375 081	9	352.00
163 375 082	9	472.00
163 481 226	36	9.00
163 481 227	36	11.00
163 481 228	36	14.00
163 481 229	36	29.00
163 481 230	36	35.00
163 481 231	36	56.00
163 481 232	36	122.00
163 481 233	36	154.00
163 481 234	36	184.00
163 481 311	35	5.00
163 481 312	35	5.00
163 481 313	35	6.00
163 481 314	35	6.00
163 481 315	35	14.00
163 481 316	35	25.00
163 481 317	35	29.00
163 481 318	35	68.00

Part Number Page List Price

163 481 319	35	85.00
163 481 320	35	105.00
163 481 322	35	5.00
163 481 323	35	5.00
163 481 324	35	6.00
163 481 325	35	6.00
163 481 326	35	14.00
163 481 327	35	25.00
163 481 328	35	29.00
163 481 329	35	102.00
163 481 330	35	114.00
163 481 331	35	117.00
163 481 375	38	66.00
163 481 376	38	67.00
163 481 377	38	83.00
163 481 378	38	93.00
163 481 379	38	115.00
163 481 380	38	156.00
163 481 381	38	301.00
163 481 382	38	377.00
163 481 383	38	451.00
163 481 385	38	80.00
163 481 386	38	94.00
163 481 387	38	106.00
163 481 388	38	127.00
163 481 389	38	154.00
163 481 390	38	228.00
163 481 391	38	404.00
163 481 392	38	504.00
163 481 393	38	607.00
163 481 982	39	85.00
163 481 983	39	99.00
163 481 984	39	101.00
163 481 985	39	106.00
163 481 986	39	121.00
163 481 987	39	130.00
163 481 992	39	85.00
163 481 993	39	99.00
163 481 994	39	102.00
163 481 995	39	114.00
163 481 996	39	129.00
163 481 997	39	135.00
163 482 002	39	85.00
163 482 003	39	99.00
163 482 004	39	101.00
163 482 005	39	106.00
163 482 006	39	121.00
163 482 007	39	130.00

Part Number Page List Price

163 482 012	39	85.00
163 482 013	39	99.00
163 482 014	39	102.00
163 482 015	39	114.00
163 482 016	39	129.00
163 482 017	39	135.00
163 482 231	6	202.00
163 482 232	6	204.00
163 482 233	6	211.00
163 482 234	6	256.00
163 482 235	6	259.00
163 482 236	6	293.00
163 489 131	114	453.00
163 489 133	114	550.00
163 489 136	114	713.00
163 489 161	114	386.00
163 489 163	114	426.00
163 489 166	114	704.00
163 489 231	114	507.00
163 489 233	114	568.00
163 489 236	114	750.00
163 489 261	114	469.00
163 489 263	114	445.00
163 489 266	114	765.00
163 514 612	20	242.00
163 514 613	20	261.00
163 514 614	20	335.00
163 514 615	20	433.00
163 514 616	20	472.00
163 514 617	20	504.00
163 514 632	20	336.00
163 514 633	20	371.00
163 514 634	20	464.00
163 514 635	20	571.00
163 514 636	20	643.00
163 514 637	20	725.00
163 514 662	20	319.00
163 514 663	20	352.00
163 514 664	20	441.00
163 514 665	20	542.00
163 514 666	20	611.00
163 514 667	20	688.00
163 517 712	20	283.00
163 517 713	20	315.00
163 517 714	20	390.00
163 517 715	20	500.00
163 517 716	20	506.00
163 517 717	20	567.00

Part Number Page List Price

163 517 732	20	387.00
163 517 733	20	418.00
163 517 734	20	548.00
163 517 735	20	702.00
163 517 736	20	820.00
163 517 737	20	918.00
163 517 762	20	368.00
163 517 763	20	398.00
163 517 764	20	523.00
163 517 765	20	667.00
163 517 766	20	779.00
163 517 767	20	874.00
163 523 521	10	147.00
163 523 522	10	155.00
163 523 531	10	165.00
163 523 532	10	168.00
163 543 081	12	194.00
163 543 082	12	194.00
163 543 083	12	234.00
163 543 084	12	287.00
163 543 085	12	332.00
163 543 086	12	381.00
163 543 087	12	471.00
163 543 091	12	214.00
163 543 092	12	214.00
163 543 093	12	247.00
163 543 094	12	308.00
163 543 095	12	363.00
163 543 096	12	424.00
163 543 097	12	541.00
163 543 101	12	194.00
163 543 102	12	194.00
163 543 103	12	234.00
163 543 104	12	287.00
163 543 105	12	332.00
163 543 106	12	381.00
163 543 107	12	471.00
163 543 111	12	214.00
163 543 112	12	214.00
163 543 113	12	247.00
163 543 114	12	308.00
163 543 115	12	363.00
163 543 116	12	424.00
163 543 117	12	541.00
163 543 281	12	194.00
163 543 282	12	194.00
163 543 283	12	234.00
163 543 284	12	287.00

Part Number Page List Price

163 543 285	12	332.00
163 543 286	12	381.00
163 543 287	12	471.00
163 543 291	12	214.00
163 543 292	12	214.00
163 543 293	12	247.00
163 543 294	12	308.00
163 543 295	12	363.00
163 543 296	12	424.00
163 543 297	12	541.00
163 543 301	12	194.00
163 543 302	12	194.00
163 543 303	12	234.00
163 543 304	12	287.00
163 543 305	12	332.00
163 543 306	12	381.00
163 543 307	12	471.00
163 543 311	12	214.00
163 543 312	12	214.00
163 543 313	12	247.00
163 543 314	12	308.00
163 543 315	12	363.00
163 543 316	12	424.00
163 543 317	12	541.00
163 546 341	4	108.00
163 546 342	4	114.00
163 546 343	4	128.00
163 546 344	4	156.00
163 546 345	4	199.00
163 546 346	4	238.00
163 546 347	4	294.00
163 546 348	4	765.00
163 546 349	4	935.00
163 546 350	4	1124.00
163 546 351	4	119.00
163 546 352	4	121.00
163 546 353	4	149.00
163 546 354	4	186.00
163 546 355	4	233.00
163 546 356	4	279.00
163 546 357	4	372.00
163 546 358	4	868.00
163 546 359	4	1083.00
163 546 360	4	1303.00
163 546 361	4	148.00
163 546 362	4	149.00
163 546 363	4	167.00
163 546 364	4	199.00

Part Number Page List Price

163 546 365	4	255.00
163 546 366	4	294.00
163 546 367	4	356.00
163 546 368	4	923.00
163 546 369	4	1121.00
163 546 370	4	1319.00
163 546 371	4	156.00
163 546 372	4	161.00
163 546 373	4	184.00
163 546 374	4	227.00
163 546 375	4	285.00
163 546 376	4	325.00
163 546 377	4	420.00
163 546 378	4	1045.00
163 546 379	4	1274.00
163 546 380	4	1506.00
163 546 582	4	170.00
163 546 583	4	188.00
163 546 584	4	270.00
163 546 585	4	285.00
163 546 586	4	331.00
163 546 587	4	498.00
163 546 588	4	967.00
163 546 589	4	1180.00
163 546 590	4	1382.00
163 546 592	4	245.00
163 546 593	4	261.00
163 546 594	4	321.00
163 546 595	4	382.00
163 546 596	4	422.00
163 546 597	4	565.00
163 546 598	4	1083.00
163 546 599	4	1339.00
163 546 600	4	1677.00
163 561 101	25	107.00
163 561 102	25	107.00
163 561 103	25	127.00
163 561 104	25	152.00
163 561 105	25	223.00
163 561 106	25	233.00
163 561 107	25	296.00
163 561 108	25	756.00
163 561 109	25	946.00
163 561 110	25	1698.00
163 561 111	25	118.00
163 561 112	25	118.00
163 561 113	25	145.00
163 561 114	25	181.00

Part Number Page List Price

163 561 115	25	261.00
163 561 116	25	279.00
163 561 117	25	371.00
163 561 118	25	909.00
163 561 119	25	1134.00
163 561 120	25	2798.00
163 562 101	26	155.00
163 562 102	26	155.00
163 562 103	26	182.00
163 562 104	26	219.00
163 562 105	26	313.00
163 562 106	26	332.00
163 562 107	26	424.00
163 562 108	26	853.00
163 562 109	26	1066.00
163 562 110	26	2379.00
163 562 111	26	183.00
163 562 112	26	183.00
163 562 113	26	215.00
163 562 114	26	259.00
163 562 115	26	368.00
163 562 116	26	391.00
163 562 117	26	501.00
163 562 118	26	1003.00
163 562 119	26	1254.00
163 562 120	26	3541.00
163 567 002	14	446.00
163 567 003	14	493.00
163 567 004	14	544.00
163 567 005	14	637.00
163 567 006	14	869.00
163 567 007	14	869.00
163 567 008	14	1124.00
163 567 009	14	3464.00
163 567 010	14	4578.00
163 567 022	14	624.00
163 567 023	14	676.00
163 567 024	14	794.00
163 567 025	14	919.00
163 567 026	14	1207.00
163 567 027	14	1207.00
163 567 028	14	1563.00
163 567 029	14	3742.00
163 567 030	14	4548.00
163 567 042	14	721.00
163 567 043	14	771.00
163 567 044	14	868.00
163 567 045	14	958.00

Part Number Page List Price

163 567 046	14	1239.00
163 567 047	14	1239.00
163 567 048	14	1508.00
163 567 049	14	3604.00
163 567 050	14	4718.00
163 567 062	14	839.00
163 567 063	14	918.00
163 567 064	14	1018.00
163 567 065	14	1128.00
163 567 066	14	1354.00
163 567 067	14	1354.00
163 567 068	14	1659.00
163 567 069	14	4005.00
163 567 070	14	4942.00
163 578 102	17	971.00
163 578 103	17	1004.00
163 578 104	17	1004.00
163 578 105	17	1704.00
163 578 106	17	2218.00
163 578 107	17	2218.00
163 578 108	17	2997.00
163 578 109	17	8553.00
163 578 110	17	9853.00
163 578 122	17	1214.00
163 578 123	17	1255.00
163 578 124	17	1255.00
163 578 125	17	2130.00
163 578 126	17	2774.00
163 578 127	17	2774.00
163 578 128	17	3747.00
163 578 129	17	10692.00
163 578 130	17	11592.00
163 578 142	17	1211.00
163 578 143	17	1495.00
163 578 144	17	1495.00
163 578 145	17	1893.00
163 578 146	17	2464.00
163 578 147	17	2464.00
163 578 148	17	3332.00
163 578 149	17	9502.00
163 578 150	17	10947.00
163 578 162	17	1349.00
163 578 163	17	1674.00
163 578 164	17	1674.00
163 578 165	17	2366.00
163 578 166	17	3082.00
163 578 167	17	3082.00
163 578 168	17	4163.00

Part Number Page List Price

163 578 169	17	11880.00
163 578 170	17	12880.00
163 582 202	110	886.00
163 582 203	110	1233.00
163 582 204	110	1509.00
163 582 205	110	1736.00
163 582 206	110	1832.00
163 582 207	110	2752.00
163 582 212	110	904.00
163 582 213	110	1291.00
163 582 214	110	1573.00
163 582 215	110	1800.00
163 582 216	110	1900.00
163 582 217	110	2822.00
163 582 222	110	975.00
163 582 223	110	1357.00
163 582 224	110	1661.00
163 582 225	110	1910.00
163 582 226	110	2016.00
163 582 227	110	3028.00
163 582 232	110	995.00
163 582 233	110	1420.00
163 582 234	110	1731.00
163 582 235	110	1984.00
163 582 236	110	2092.00
163 582 237	110	3107.00
163 582 602	110	851.00
163 582 603	110	1147.00
163 582 604	110	1336.00
163 582 605	110	1432.00
163 582 606	110	1560.00
163 582 607	110	1963.00
163 582 612	110	928.00
163 582 613	110	1222.00
163 582 614	110	1412.00
163 582 615	110	1530.00
163 582 616	110	1618.00
163 582 617	110	2014.00
163 586 202	112	604.00
163 586 203	112	712.00
163 586 204	112	827.00
163 586 205	112	945.00
163 586 206	112	1061.00
163 586 207	112	1290.00
163 586 212	112	644.00
163 586 213	112	755.00
163 586 214	112	874.00
163 586 215	112	992.00

Part Number Page List Price

163 586 216	112	1113.00
163 586 217	112	1354.00
163 586 602	112	696.00
163 586 603	112	818.00
163 586 604	112	951.00
163 586 605	112	1086.00
163 586 606	112	1219.00
163 586 607	112	1483.00
163 586 612	112	735.00
163 586 613	112	860.00
163 586 614	112	997.00
163 586 615	112	1133.00
163 586 616	112	1272.00
163 586 617	112	1547.00
163 591 101	28	171.00
163 591 102	28	171.00
163 591 103	28	233.00
163 591 104	28	326.00
163 591 105	28	470.00
163 591 106	28	617.00
163 591 107	28	782.00
163 591 108	28	1250.00
163 591 109	28	1564.00
163 591 110	28	1879.00
163 591 111	28	204.00
163 591 112	28	204.00
163 591 113	28	279.00
163 591 114	28	390.00
163 591 115	28	565.00
163 591 116	28	742.00
163 591 117	28	939.00
163 591 118	28	1503.00
163 591 119	28	1879.00
163 591 120	28	2251.00
163 595 101	29	194.00
163 595 102	29	194.00
163 595 103	29	264.00
163 595 104	29	364.00
163 595 105	29	516.00
163 595 106	29	687.00
163 595 107	29	882.00
163 595 108	29	1412.00
163 595 109	29	1765.00
163 595 110	29	2117.00
163 595 111	29	227.00
163 595 112	29	227.00
163 595 113	29	313.00
163 595 114	29	430.00

Part Number Page List Price

163 595 115	29	611.00
163 595 116	29	810.00
163 595 117	29	1037.00
163 595 118	29	1661.00
163 595 119	29	2076.00
163 595 120	29	2491.00
163 604 612	97	331.00
163 614 613	97	349.00
163 614 614	97	383.00
163 614 615	97	480.00
163 614 616	97	588.00
163 614 617	97	725.00
163 624 612	97	389.00
163 624 613	97	411.00
163 624 614	97	450.00
163 624 615	97	565.00
163 624 616	97	690.00
163 624 617	97	853.00
163 624 632	97	505.00
163 624 633	97	532.00
163 624 634	97	585.00
163 624 635	97	734.00
163 624 636	97	899.00
163 624 637	97	1108.00
163 624 662	97	481.00
163 624 663	97	505.00
163 624 664	97	557.00
163 624 665	97	698.00
163 624 666	97	854.00
163 624 667	97	1054.00
163 627 712	97	420.00
163 627 713	97	447.00
163 627 714	97	491.00
163 627 715	97	619.00
163 627 716	97	755.00
163 627 717	97	932.00
163 627 732	97	536.00
163 627 733	97	568.00
163 627 734	97	625.00
163 627 735	97	788.00
163 627 736	97	964.00
163 627 737	97	1187.00
163 627 762	97	511.00
163 627 763	97	541.00
163 627 764	97	596.00
163 627 765	97	751.00
163 627 766	97	918.00
163 627 767	97	1132.00

Part Number Page List Price

163 644 612	98	261.00
163 644 613	98	279.00
163 644 614	98	295.00
163 644 615	98	371.00
163 644 616	98	450.00
163 644 617	98	545.00
163 644 632	98	333.00
163 644 633	98	356.00
163 644 634	98	377.00
163 644 635	98	474.00
163 644 636	98	594.00
163 644 637	98	718.00
163 644 662	98	316.00
163 644 663	98	339.00
163 644 664	98	356.00
163 644 665	98	450.00
163 644 666	98	564.00
163 644 667	98	682.00
163 647 662	98	347.00
163 647 663	98	376.00
163 647 664	98	396.00
163 647 665	98	504.00
163 647 666	98	628.00
163 647 667	98	760.00
163 647 712	98	292.00
163 647 713	98	316.00
163 647 714	98	335.00
163 647 715	98	424.00
163 647 716	98	513.00
163 647 717	98	625.00
163 647 732	98	364.00
163 647 733	98	392.00
163 647 734	98	416.00
163 647 735	98	529.00
163 647 736	98	658.00
163 647 737	98	796.00
163 654 612	98	263.00
163 654 613	98	284.00
163 654 614	98	301.00
163 654 615	98	375.00
163 654 616	98	472.00
163 654 617	98	571.00
163 654 632	98	333.00
163 654 633	98	356.00
163 654 634	98	377.00
163 654 635	98	474.00
163 654 636	98	594.00
163 654 637	98	718.00

Part Number Page List Price

163 654 662	98	316.00
163 654 663	98	339.00
163 654 664	98	356.00
163 654 665	98	450.00
163 654 666	98	564.00
163 654 667	98	682.00
163 657 712	98	294.00
163 657 713	98	320.00
163 657 714	98	342.00
163 657 715	98	428.00
163 657 716	98	536.00
163 657 717	98	650.00
163 657 732	98	364.00
163 657 733	98	392.00
163 657 734	98	416.00
163 657 735	98	529.00
163 657 736	98	658.00
163 657 737	98	796.00
163 657 762	98	347.00
163 657 763	98	376.00
163 657 764	98	396.00
163 657 765	98	504.00
163 657 766	98	628.00
163 657 767	98	760.00
163 684 612	99	454.00
163 684 613	99	478.00
163 684 614	99	528.00
163 684 615	99	660.00
163 684 616	99	809.00
163 684 617	99	998.00
163 684 632	99	561.00
163 684 633	99	590.00
163 684 634	99	649.00
163 684 635	99	811.00
163 684 636	99	996.00
163 684 637	99	1203.00
163 684 662	99	532.00
163 684 663	99	560.00
163 684 664	99	616.00
163 684 665	99	770.00
163 684 666	99	946.00
163 684 667	99	1142.00
163 687 712	99	485.00
163 687 713	99	514.00
163 687 714	99	567.00
163 687 715	99	714.00
163 687 716	99	874.00
163 687 717	99	1075.00

Part Number Page List Price

163 687 732	99	592.00
163 687 733	99	626.00
163 687 734	99	688.00
163 687 735	99	864.00
163 687 736	99	1060.00
163 687 737	99	1281.00
163 687 762	99	563.00
163 687 763	99	596.00
163 687 764	99	655.00
163 687 765	99	824.00
163 687 766	99	1009.00
163 687 767	99	1220.00
167 317 024	21	927.00
167 317 027	21	3717.00
167 317 039	21	1364.00
167 317 042	21	5531.00
167 317 325	21	1305.00
167 317 340	21	1817.00
167 317 523	21	626.00
167 317 538	21	978.00
167 482 479	37	4.00
167 482 480	37	4.00
167 482 481	37	4.00
167 482 482	37	4.00
167 482 489	37	4.00
167 482 490	37	4.00
167 482 491	37	4.00
167 482 492	37	4.00
167 482 626	76	64.00
167 482 627	76	67.00
167 482 628	76	82.00
167 482 629	76	87.00
167 482 630	76	118.00
167 482 631	76	136.00
167 482 635	76	64.00
167 482 636	76	67.00
167 482 637	76	82.00
167 482 638	76	87.00
167 482 639	76	118.00
167 482 640	76	136.00
167 482 653	8	220.00
167 482 654	8	227.00
167 482 655	8	242.00
167 482 656	8	245.00
167 482 657	8	282.00
167 482 658	8	298.00
167 482 662	8	220.00
167 482 663	8	227.00

Part Number Page List Price

167 482 664	8	242.00
167 482 665	8	245.00
167 482 666	8	282.00
167 482 667	8	298.00
167 482 680	49	5.00
167 482 681	49	5.00
167 482 682	49	8.00
167 482 683	49	9.00
167 482 684	49	33.00
167 482 685	49	45.00
167 482 712	36	4.00
167 482 713	36	5.00
167 482 714	36	6.00
167 482 715	36	8.00
167 482 716	36	14.00
167 482 717	36	25.00
167 482 718	36	60.00
167 482 719	36	72.00
167 482 720	36	87.00
167 482 900	35	3.00
167 482 901	35	3.00
167 482 902	35	3.00
167 482 903	35	4.00
167 482 904	35	6.00
167 482 905	35	6.00
167 482 906	35	9.00
167 482 907	35	30.00
167 482 908	35	35.00
167 482 909	35	46.00
167 482 945	35	5.00
167 482 946	35	6.00
167 482 947	35	7.00
167 482 948	35	8.00
167 482 949	35	10.00
167 482 950	35	17.00
167 482 951	35	46.00
167 482 952	35	55.00
167 482 953	35	66.00
167 482 966	35	17.00
167 482 967	35	19.00
167 482 968	35	21.00
167 482 969	35	24.00
167 482 970	35	29.00
167 482 971	35	32.00
167 482 972	35	38.00
167 483 419	6	202.00
167 483 420	6	209.00
167 483 421	6	215.00

Part Number Page List Price

167 483 422	6	240.00
167 483 423	6	264.00
167 483 424	6	286.00
167 484 076	40	4.00
167 484 077	40	4.00
167 484 078	40	5.00
167 484 079	40	5.00
167 484 080	40	7.00
167 484 081	40	7.00
167 484 082	40	22.00
167 484 083	40	22.00
167 484 084	40	29.00
167 484 088	40	4.00
167 484 089	40	4.00
167 484 090	40	4.00
167 484 091	40	5.00
167 484 092	40	6.00
167 484 093	40	7.00
167 484 094	40	22.00
167 484 095	40	22.00
167 484 096	40	29.00
167 484 100	40	19.00
167 484 101	40	21.00
167 484 102	40	22.00
167 484 103	40	24.00
167 484 104	40	27.00
167 484 105	40	29.00
167 484 110	8	4.00
167 484 111	8	4.00
167 484 125	38	48.00
167 484 126	38	50.00
167 484 127	38	59.00
167 484 128	38	65.00
167 484 129	38	81.00
167 484 130	38	112.00
167 484 131	38	264.00
167 484 132	38	331.00
167 484 133	38	400.00
167 484 135	38	56.00
167 484 136	38	65.00
167 484 137	38	72.00
167 484 138	38	87.00
167 484 139	38	106.00
167 484 140	38	155.00
167 484 141	38	347.00
167 484 142	38	432.00
167 484 143	38	518.00
167 484 376	40	14.00

Part Number Page List Price

167 484 377	40	14.00
167 484 378	40	17.00
167 484 379	40	19.00
167 484 380	40	23.00
167 484 381	40	24.00
167 484 442	40	46.00
167 484 443	40	49.00
167 484 444	40	54.00
167 484 445	40	60.00
167 484 446	40	65.00
167 484 447	40	71.00
167 484 488	40	11.00
167 484 489	40	11.00
167 484 490	40	14.00
167 484 491	40	17.00
167 484 492	40	19.00
167 484 493	40	23.00
167 484 542	40	46.00
167 484 543	40	49.00
167 484 544	40	54.00
167 484 545	40	60.00
167 484 546	40	65.00
167 484 547	40	71.00
167 484 576	40	14.00
167 484 577	40	14.00
167 484 578	40	17.00
167 484 579	40	19.00
167 484 580	40	23.00
167 484 581	40	24.00
167 484 588	40	11.00
167 484 589	40	11.00
167 484 590	40	14.00
167 484 591	40	17.00
167 484 592	40	19.00
167 484 593	40	23.00
167 484 642	40	46.00
167 484 643	40	49.00
167 484 644	40	54.00
167 484 645	40	60.00
167 484 646	40	65.00
167 484 647	40	71.00
167 484 688	40	11.00
167 484 689	40	11.00
167 484 690	40	14.00
167 484 691	40	17.00
167 484 692	40	19.00
167 484 693	40	23.00
167 484 742	40	46.00

Part Number Page List Price

167 484 743	40	49.00
167 484 744	40	54.00
167 484 745	40	60.00
167 484 746	40	65.00
167 484 747	40	71.00
167 484 788	40	11.00
167 484 789	40	11.00
167 484 790	40	14.00
167 484 791	40	17.00
167 484 792	40	19.00
167 484 793	40	23.00
167 484 882	39	64.00
167 484 883	39	71.00
167 484 884	39	75.00
167 484 885	39	80.00
167 484 886	39	88.00
167 484 887	39	96.00
167 484 892	39	64.00
167 484 893	39	75.00
167 484 894	39	80.00
167 484 895	39	83.00
167 484 896	39	96.00
167 484 897	39	97.00
167 484 902	39	64.00
167 484 903	39	71.00
167 484 904	39	75.00
167 484 905	39	80.00
167 484 906	39	88.00
167 484 907	39	96.00
167 484 912	39	64.00
167 484 913	39	75.00
167 484 914	39	80.00
167 484 915	39	83.00
167 484 916	39	96.00
167 484 917	39	97.00
167 484 941	55	127.00
167 484 942	55	141.00
167 484 943	55	152.00
167 484 944	55	169.00
167 484 945	55	127.00
167 484 946	55	141.00
167 484 947	55	152.00
167 484 948	55	169.00
167 489 131	114	323.00
167 489 133	114	349.00
167 489 136	114	518.00
167 489 161	114	367.00
167 489 163	114	312.00

Part Number Page List Price

167 489 166	114	564.00
167 489 231	114	355.00
167 489 233	114	383.00
167 489 236	114	561.00
167 489 261	114	368.00
167 489 263	114	326.00
167 489 266	114	600.00
167 514 002	21	185.00
167 514 003	21	202.00
167 514 004	21	243.00
167 514 005	21	294.00
167 514 006	21	382.00
167 514 007	21	477.00
167 514 012	21	169.00
167 514 013	21	184.00
167 514 014	21	220.00
167 514 015	21	265.00
167 514 016	21	346.00
167 514 017	21	434.00
167 514 032	21	346.00
167 514 033	21	352.00
167 514 034	21	405.00
167 514 035	21	519.00
167 514 036	21	659.00
167 514 037	21	818.00
167 514 062	21	260.00
167 514 063	21	263.00
167 514 064	21	304.00
167 514 065	21	389.00
167 514 066	21	494.00
167 514 067	21	613.00
167 514 102	21	220.00
167 514 103	21	233.00
167 514 104	21	283.00
167 514 105	21	345.00
167 514 106	21	447.00
167 514 107	21	557.00
167 514 112	21	201.00
167 514 113	21	211.00
167 514 114	21	258.00
167 514 115	21	315.00
167 514 116	21	405.00
167 514 117	21	507.00
167 514 132	21	403.00
167 514 133	21	405.00
167 514 134	21	473.00
167 514 135	21	613.00
167 514 136	21	771.00

Part Number Page List Price

167 514 137	21	960.00
167 514 162	21	343.00
167 514 163	21	345.00
167 514 164	21	403.00
167 514 165	21	520.00
167 514 166	21	656.00
167 514 167	21	817.00
167 515 102	21	167.00
167 515 103	21	187.00
167 515 104	21	236.00
167 515 105	21	283.00
167 515 106	21	366.00
167 515 107	21	459.00
167 515 112	21	152.00
167 515 113	21	170.00
167 515 114	21	214.00
167 515 115	21	258.00
167 515 116	21	332.00
167 515 117	21	416.00
167 515 132	21	292.00
167 515 133	21	327.00
167 515 134	21	393.00
167 515 135	21	504.00
167 515 136	21	626.00
167 515 137	21	785.00
167 515 162	21	218.00
167 515 163	21	246.00
167 515 164	21	296.00
167 515 165	21	378.00
167 515 166	21	469.00
167 515 167	21	589.00
167 517 712	21	208.00
167 517 713	21	212.00
167 517 714	21	283.00
167 517 715	21	326.00
167 517 716	21	434.00
167 517 717	21	549.00
167 517 732	21	353.00
167 517 733	21	412.00
167 517 734	21	493.00
167 517 735	21	632.00
167 517 736	21	776.00
167 517 737	21	987.00
167 519 101	22	475.00
167 519 103	22	480.00
167 519 104	22	487.00
167 519 107	22	490.00
167 519 108	22	497.00

Part Number Page List Price

167 519 109	22	501.00
167 519 112	22	509.00
167 519 118	22	587.00
167 519 119	22	676.00
167 519 120	22	702.00
167 519 125	22	762.00
167 519 126	22	794.00
167 519 127	22	839.00
167 519 301	22	769.00
167 519 303	22	776.00
167 519 304	22	785.00
167 519 307	22	793.00
167 519 308	22	800.00
167 519 309	22	809.00
167 519 312	22	823.00
167 519 318	22	971.00
167 519 319	22	1049.00
167 519 320	22	1089.00
167 519 325	22	1122.00
167 519 326	22	1136.00
167 519 327	22	1160.00
167 523 401	10	180.00
167 523 402	10	180.00
167 523 411	10	195.00
167 523 412	10	195.00
167 523 482	10	203.00
167 523 492	10	219.00
167 543 001	12	184.00
167 543 002	12	187.00
167 543 003	12	213.00
167 543 004	12	269.00
167 543 005	12	301.00
167 543 006	12	356.00
167 543 007	12	428.00
167 543 011	12	219.00
167 543 012	12	224.00
167 543 013	12	260.00
167 543 014	12	332.00
167 543 015	12	364.00
167 543 016	12	442.00
167 543 017	12	554.00
167 543 062	12	200.00
167 543 063	12	224.00
167 543 064	12	286.00
167 543 065	12	321.00
167 543 066	12	378.00
167 543 067	12	466.00
167 543 072	12	242.00

Part Number Page List Price

167 543 073	12	277.00
167 543 074	12	349.00
167 543 075	12	389.00
167 543 076	12	470.00
167 543 077	12	599.00
167 543 161	12	195.00
167 543 162	12	200.00
167 543 163	12	224.00
167 543 164	12	286.00
167 543 165	12	321.00
167 543 166	12	378.00
167 543 167	12	461.00
167 543 171	12	239.00
167 543 172	12	243.00
167 543 173	12	277.00
167 543 174	12	348.00
167 543 175	12	389.00
167 543 176	12	470.00
167 543 177	12	599.00
167 543 201	13	184.00
167 543 202	13	187.00
167 543 203	13	213.00
167 543 204	13	269.00
167 543 205	13	301.00
167 543 206	13	356.00
167 543 207	13	428.00
167 543 211	13	219.00
167 543 212	13	224.00
167 543 213	13	261.00
167 543 214	13	332.00
167 543 215	13	364.00
167 543 216	13	439.00
167 543 217	13	555.00
167 543 262	13	200.00
167 543 263	13	224.00
167 543 264	13	286.00
167 543 265	13	321.00
167 543 266	13	378.00
167 543 267	13	462.00
167 543 272	13	243.00
167 543 273	13	277.00
167 543 274	13	348.00
167 543 275	13	389.00
167 543 276	13	470.00
167 543 277	13	599.00
167 543 361	13	175.00
167 543 362	13	175.00
167 543 363	13	193.00

Part Number Page List Price

167 543 364	13	253.00
167 543 365	13	322.00
167 543 366	13	430.00
167 543 367	13	487.00
167 543 371	13	207.00
167 543 372	13	207.00
167 543 373	13	243.00
167 543 374	13	322.00
167 543 375	13	456.00
167 543 376	13	596.00
167 543 377	13	759.00
167 546 321	5	100.00
167 546 322	5	105.00
167 546 323	5	122.00
167 546 324	5	147.00
167 546 325	5	188.00
167 546 326	5	235.00
167 546 327	5	285.00
167 546 331	5	117.00
167 546 332	5	122.00
167 546 333	5	138.00
167 546 334	5	173.00
167 546 335	5	215.00
167 546 336	5	278.00
167 546 337	5	345.00
167 546 401	5	72.00
167 546 405	5	139.00
167 546 406	5	185.00
167 546 407	5	223.00
167 546 408	5	540.00
167 546 409	5	673.00
167 546 410	5	811.00
167 546 411	5	91.00
167 546 415	5	170.00
167 546 416	5	223.00
167 546 417	5	287.00
167 546 418	5	698.00
167 546 419	5	874.00
167 546 420	5	1046.00
167 546 442	5	83.00
167 546 443	5	97.00
167 546 444	5	120.00
167 546 445	5	148.00
167 546 446	5	191.00
167 546 447	5	234.00
167 546 448	5	555.00
167 546 449	5	689.00
167 546 450	5	822.00

Part Number Page List Price

167 546 452	5	98.00
167 546 453	5	115.00
167 546 454	5	146.00
167 546 455	5	177.00
167 546 456	5	235.00
167 546 457	5	300.00
167 546 458	5	673.00
167 546 459	5	841.00
167 546 460	5	1027.00
167 546 582	5	158.00
167 546 583	5	171.00
167 546 584	5	211.00
167 546 585	5	288.00
167 546 586	5	321.00
167 546 587	5	402.00
167 546 588	5	792.00
167 546 589	5	1000.00
167 546 590	5	1205.00
167 546 592	5	177.00
167 546 593	5	200.00
167 546 594	5	242.00
167 546 595	5	305.00
167 546 596	5	360.00
167 546 597	5	434.00
167 546 598	5	951.00
167 546 599	5	1189.00
167 546 600	5	1426.00
167 561 001	25	73.00
167 561 002	25	82.00
167 561 003	25	90.00
167 561 004	25	109.00
167 561 005	25	129.00
167 561 006	25	154.00
167 561 007	25	228.00
167 561 008	25	484.00
167 561 009	25	605.00
167 561 010	25	1137.00
167 561 011	25	82.00
167 561 012	25	90.00
167 561 013	25	101.00
167 561 014	25	121.00
167 561 015	25	141.00
167 561 016	25	181.00
167 561 017	25	279.00
167 561 018	25	581.00
167 561 019	25	727.00
167 561 020	25	1175.00
167 561 082	25	86.00

Part Number Page List Price

167 561 083	25	90.00
167 561 084	25	109.00
167 561 085	25	129.00
167 561 086	25	160.00
167 561 087	25	250.00
167 561 088	25	545.00
167 561 089	25	684.00
167 561 090	25	1137.00
167 561 092	25	91.00
167 561 093	25	102.00
167 561 094	25	121.00
167 561 095	25	141.00
167 561 096	25	181.00
167 561 097	25	279.00
167 561 098	25	656.00
167 561 099	25	821.00
167 561 100	25	1175.00
167 561 101	25	86.00
167 561 102	25	86.00
167 561 103	25	101.00
167 561 104	25	121.00
167 561 105	25	129.00
167 561 106	25	178.00
167 561 107	25	263.00
167561111	25	90.00
167561112	25	90.00
167561113	25	109.00
167561114	25	129.00
167561115	25	141.00
167561116	25	201.00
167561117	25	309.00
167 562 001	27	120.00
167 562 002	27	120.00
167 562 003	27	128.00
167 562 004	27	144.00
167 562 005	27	169.00
167 562 006	27	194.00
167 562 007	27	285.00
167 562 008	27	568.00
167 562 009	27	710.00
167 562 010	27	1594.00
167 562 011	27	143.00
167 562 012	27	143.00
167 562 013	27	151.00
167 562 014	27	167.00
167 562 015	27	198.00
167 562 016	27	227.00
167 562 017	27	333.00

Part Number Page List Price

167 562 018	27	664.00
167 562 019	27	829.00
167 562 020	27	1644.00
167 562 082	27	134.00
167 562 083	27	143.00
167 562 084	27	155.00
167 562 085	27	185.00
167 562 086	27	211.00
167 562 087	27	303.00
167 562 088	27	590.00
167 562 089	27	767.00
167 562 090	27	1594.00
167 562 092	27	156.00
167 562 093	27	166.00
167 562 094	27	185.00
167 562 095	27	218.00
167 562 096	27	247.00
167 562 097	27	357.00
167 562 098	27	698.00
167 562 099	27	904.00
167 562 100	27	1644.00
167 562 101	27	136.00
167 562 102	27	136.00
167 562 103	27	146.00
167 562 104	27	161.00
167 562 105	27	191.00
167 562 106	27	219.00
167 562 107	27	319.00
167 562 111	27	160.00
167 562 112	27	160.00
167 562 113	27	171.00
167 562 114	27	188.00
167 562 115	27	225.00
167 562 116	27	257.00
167 562 117	27	377.00
167 567 002	15	323.00
167 567 003	15	359.00
167 567 004	15	405.00
167 567 005	15	491.00
167 567 006	15	699.00
167 567 007	15	699.00
167 567 008	15	900.00
167 567 009	15	3098.00
167 567 010	15	3838.00
167 567 022	15	406.00
167 567 023	15	439.00
167 567 024	15	485.00
167 567 025	15	619.00

Part Number Page List Price

167 567 026	15	905.00
167 567 027	15	905.00
167 567 028	15	1056.00
167 567 029	15	3612.00
167 567 030	15	4494.00
167 567 042	15	856.00
167 567 043	15	903.00
167 567 044	15	945.00
167 567 045	15	1032.00
167 567 046	15	1115.00
167 567 047	15	1115.00
167 567 048	15	1282.00
167 567 049	15	3399.00
167 567 050	15	4137.00
167 567 051	15	7964.00
167 567 052	15	8834.00
167 567 053	15	12594.00
167 567 054	15	15889.00
167 567 055	15	20781.00
167 567 062	15	918.00
167 567 063	15	955.00
167 567 064	15	1032.00
167 567 065	15	1126.00
167 567 066	15	1387.00
167 567 067	15	1387.00
167 567 068	15	1607.00
167 567 069	15	3926.00
167 567 070	15	4795.00
167 567 071	15	8834.00
167 567 072	15	9539.00
167 567 073	15	13909.00
167 567 074	15	18519.00
167 567 075	15	23526.00
167 567 811	15	7592.00
167 567 812	15	8460.00
167 567 813	15	12221.00
167 567 814	15	15517.00
167 567 815	15	20407.00
167 567 831	15	8460.00
167 567 832	15	9166.00
167 567 833	15	13537.00
167 567 834	15	18147.00
167 567 835	15	23153.00
167 578 102	17	1013.00
167 578 103	17	1231.00
167 578 104	17	1318.00
167 578 105	17	1685.00
167 578 106	17	2479.00

Part Number Page List Price

167 578 107	17	2479.00
167 578 108	17	3198.00
167 578 109	17	4829.00
167 578 110	17	5855.00
167 578 122	17	1081.00
167 578 123	17	1374.00
167 578 124	17	1407.00
167 578 125	17	1783.00
167 578 126	17	3201.00
167 578 127	17	3201.00
167 578 128	17	3494.00
167 578 129	17	5717.00
167 578 130	17	7380.00
167 578 142	17	1266.00
167 578 143	17	1448.00
167 578 144	17	1550.00
167 578 145	17	1873.00
167 578 146	17	2608.00
167 578 147	17	2608.00
167 578 148	17	3368.00
167 578 149	17	5083.00
167 578 150	17	6161.00
167 578 162	17	1352.00
167 578 163	17	1616.00
167 578 164	17	1654.00
167 578 165	17	1982.00
167 578 166	17	3370.00
167 578 167	17	3370.00
167 578 168	17	3679.00
167 578 169	17	6131.00
167 578 170	17	7768.00
167 582 002	111	640.00
167 582 003	111	845.00
167 582 004	111	976.00
167 582 005	111	1133.00
167 582 006	111	1163.00
167 582 007	111	1423.00
167 582 012	111	715.00
167 582 013	111	891.00
167 582 014	111	1035.00
167 582 015	111	1194.00
167 582 016	111	1238.00
167 582 017	111	1503.00
167 582 102	111	800.00
167 582 103	111	1056.00
167 582 104	111	1221.00
167 582 105	111	1417.00
167 582 106	111	1454.00

Part Number Page List Price

167 582 107	111	1779.00
167 582 112	111	844.00
167 582 113	111	1105.00
167 582 114	111	1274.00
167 582 115	111	1473.00
167 582 116	111	1530.00
167 582 117	111	1879.00
167 582 502	111	880.00
167 582 503	111	1161.00
167 582 504	111	1343.00
167 582 505	111	1558.00
167 582 506	111	1600.00
167 582 507	111	1958.00
167 582 512	111	887.00
167 582 513	111	1206.00
167 582 514	111	1390.00
167 582 515	111	1610.00
167 582 516	111	1672.00
167 582 517	111	2066.00
167 586 002	112	492.00
167 586 003	112	549.00
167 586 004	112	627.00
167 586 005	112	689.00
167 586 006	112	755.00
167 586 007	112	963.00
167 586 012	112	537.00
167 586 013	112	603.00
167 586 014	112	686.00
167 586 015	112	773.00
167 586 016	112	822.00
167 586 017	112	1034.00
167 586 102	112	579.00
167 586 103	112	668.00
167 586 104	112	783.00
167 586 105	112	861.00
167 586 106	112	944.00
167 586 107	112	1203.00
167 586 112	112	626.00
167 586 113	112	721.00
167 586 114	112	844.00
167 586 115	112	925.00
167 586 116	112	1010.00
167 586 117	112	1274.00
167 586 502	112	638.00
167 586 503	112	735.00
167 586 504	112	861.00
167 586 505	112	948.00
167 586 506	112	1037.00

Part Number Page List Price

167 586 507	112	1323.00
167 586 512	112	684.00
167 586 513	112	789.00
167 586 514	112	921.00
167 586 515	112	1011.00
167 586 516	112	1104.00
167 586 517	112	1394.00
167 591 001	28	157.00
167 591 002	28	157.00
167 591 003	28	197.00
167 591 004	28	248.00
167 591 005	28	295.00
167 591 006	28	418.00
167 591 007	28	613.00
167 591 008	28	982.00
167 591 009	28	1228.00
167 591 010	28	1473.00
167 591 011	28	190.00
167 591 012	28	190.00
167 591 013	28	235.00
167 591 014	28	297.00
167 591 015	28	353.00
167 591 016	28	501.00
167 591 017	28	736.00
167 591 018	28	1178.00
167 591 019	28	1473.00
167 591 020	28	1768.00
167 591 041	28	157.00
167 591 042	28	157.00
167 591 043	28	197.00
167 591 044	28	248.00
167 591 045	28	295.00
167 591 046	28	418.00
167 591 047	28	613.00
167 591 048	28	982.00
167 591 049	28	1228.00
167 591 050	28	1473.00
167 591 051	28	190.00
167 591 052	28	190.00
167 591 053	28	235.00
167 591 054	28	297.00
167 591 055	28	353.00
167 591 056	28	501.00
167 591 057	28	736.00
167 591 058	28	1178.00
167 591 059	28	1473.00
167 591 060	28	1768.00
167 595 001	29	183.00

Part Number Page List Price

167 595 002	29	183.00
167 595 003	29	228.00
167 595 004	29	288.00
167 595 005	29	344.00
167 595 006	29	494.00
167 595 007	29	718.00
167 595 008	29	1149.00
167 595 009	29	1440.00
167 595 010	29	1726.00
167 595 011	29	214.00
167 595 012	29	214.00
167 595 013	29	269.00
167 595 014	29	339.00
167 595 015	29	402.00
167 595 016	29	575.00
167 595 017	29	842.00
167 595 018	29	1349.00
167 595 019	29	1683.00
167 595 020	29	2020.00
167 595 041	29	183.00
167 595 042	29	183.00
167 595 043	29	228.00
167 595 044	29	288.00
167 595 045	29	344.00
167 595 046	29	494.00
167 595 047	29	718.00
167 595 048	29	1149.00
167 595 049	29	1440.00
167 595 050	29	1726.00
167 595 051	29	214.00
167 595 052	29	214.00
167 595 053	29	269.00
167 595 054	29	339.00
167 595 055	29	402.00
167 595 056	29	575.00
167 595 057	29	842.00
167 595 058	29	1349.00
167 595 059	29	1683.00
167 595 060	29	2020.00
167 624 012	100	350.00
167 624 013	100	403.00
167 624 014	100	455.00
167 624 015	100	523.00
167 624 016	100	638.00
167 624 017	100	785.00
167 624 032	100	446.00
167 624 033	100	475.00
167 624 034	100	505.00

Part Number Page List Price

167 624 035	100	630.00
167 624 036	100	756.00
167 624 037	100	968.00
167 624 112	100	371.00
167 624 113	100	430.00
167 624 114	100	470.00
167 624 115	100	539.00
167 624 116	100	642.00
167 624 117	100	824.00
167 624 132	100	497.00
167 624 133	100	514.00
167 624 134	100	598.00
167 624 135	100	717.00
167 624 136	100	875.00
167 624 137	100	1112.00
167 625 112	100	339.00
167 625 113	100	395.00
167 625 114	100	452.00
167 625 115	100	514.00
167 625 116	100	623.00
167 625 117	100	778.00
167 625 132	100	497.00
167 625 133	100	514.00
167 625 134	100	598.00
167 625 135	100	717.00
167 625 136	100	875.00
167 625 137	100	1112.00
167 627 712	100	400.00
167 627 713	100	478.00
167 627 714	100	550.00
167 627 715	100	647.00
167 627 716	100	773.00
167 627 717	100	981.00
167 627 732	100	558.00
167 627 733	100	599.00
167 627 734	100	697.00
167 627 735	100	849.00
167 627 736	100	1024.00
167 627 737	100	1315.00
167 644 012	100	258.00
167 644 013	100	278.00
167 644 014	100	292.00
167 644 015	100	371.00
167 644 016	100	445.00
167 644 017	100	561.00
167 644 032	100	430.00
167 644 033	100	446.00
167 644 034	100	445.00

Part Number Page List Price

167 644 035	100	642.00
167 644 036	100	771.00
167 644 037	100	941.00
167 644 112	100	242.00
167 644 113	100	261.00
167 644 114	100	273.00
167 644 115	100	346.00
167 644 116	100	435.00
167 644 117	100	525.00
167 644 132	100	430.00
167 644 133	100	446.00
167 644 134	100	530.00
167 644 135	100	650.00
167 644 136	100	805.00
167 644 137	100	711.00
167 645 112	100	265.00
167 645 113	100	285.00
167 645 114	100	300.00
167 645 115	100	376.00
167 645 116	100	472.00
167 645 117	100	570.00
167 645 132	100	343.00
167 645 133	100	446.00
167 645 134	100	497.00
167 645 135	100	556.00
167 645 136	100	685.00
167 645 137	100	941.00
167 647 712	100	326.00
167 647 713	100	368.00
167 647 714	100	398.00
167 647 715	100	506.00
167 647 716	100	623.00
167 647 717	100	774.00
167 647 732	100	403.00
167 647 733	100	530.00
167 647 734	100	595.00
167 647 735	100	686.00
167 647 736	100	834.00
167 647 737	100	1144.00
167 654 012	101	258.00
167 654 013	101	278.00
167 654 014	101	292.00
167 654 015	101	371.00
167 654 016	101	445.00
167 654 017	101	561.00
167 654 032	101	430.00
167 654 033	101	446.00
167 654 034	101	445.00

Part Number Page List Price

167 654 035	101	642.00
167 654 036	101	771.00
167 654 037	101	941.00
167 654 112	101	242.00
167 654 113	101	261.00
167 654 114	101	273.00
167 654 115	101	346.00
167 654 116	101	435.00
167 654 117	101	525.00
167 654 132	101	430.00
167 654 133	101	446.00
167 654 134	101	530.00
167 654 135	101	650.00
167 654 136	101	805.00
167 654 137	101	776.00
167 655 112	101	265.00
167 655 113	101	285.00
167 655 114	101	300.00
167 655 115	101	376.00
167 655 116	101	472.00
167 655 117	101	570.00
167 655 132	101	343.00
167 655 133	101	446.00
167 655 134	101	497.00
167 655 135	101	556.00
167 655 136	101	685.00
167 655 137	101	941.00
167 657 712	101	326.00
167 657 713	101	368.00
167 657 714	101	398.00
167 657 715	101	506.00
167 657 716	101	623.00
167 657 717	101	774.00
167 657 732	101	403.00
167 657 733	101	530.00
167 657 734	101	595.00
167 657 735	101	686.00
167 657 736	101	834.00
167 657 737	101	1144.00
167 684 012	101	438.00
167 684 013	101	465.00
167 684 014	101	493.00
167 684 015	101	619.00
167 684 016	101	775.00
167 684 017	101	945.00
167 684 032	101	563.00
167 684 033	101	596.00
167 684 034	101	638.00

Part Number Page List Price

167 684 035	101	800.00
167 684 036	101	999.00
167 684 037	101	1218.00
167 684 112	101	424.00
167 684 113	101	451.00
167 684 114	101	481.00
167 684 115	101	601.00
167 684 116	101	752.00
167 684 117	101	920.00
167 684 132	101	554.00
167 684 133	101	590.00
167 684 134	101	623.00
167 684 135	101	786.00
167 684 136	101	984.00
167 684 137	101	1201.00
167 685 112	101	442.00
167 685 113	101	467.00
167 685 114	101	497.00
167 685 115	101	623.00
167 685 116	101	782.00
167 685 117	101	952.00
167 685 132	101	573.00
167 685 133	101	611.00
167 685 134	101	648.00
167 685 135	101	816.00
167 685 136	101	1018.00
167 685 137	101	1241.00
167 687 712	101	503.00
167 687 713	101	550.00
167 687 714	101	595.00
167 687 715	101	750.00
167 687 716	101	933.00
167 687 717	101	1156.00
167 687 732	101	634.00
167 687 733	101	696.00
167 687 734	101	746.00
167 687 735	101	944.00
167 687 736	101	1169.00
167 687 737	101	1445.00
167 689 101	102	855.00
167 689 103	102	855.00
167 689 104	102	855.00
167 689 107	102	941.00
167 689 108	102	941.00
167 689 109	102	941.00
167 689 112	102	1027.00
167 689 118	102	1112.00
167 689 119	102	1112.00

Part Number Page List Price

167 689 120	102	1112.00
167 689 125	102	1283.00
167 689 126	102	1283.00
167 689 127	102	1283.00
167 689 301	102	941.00
167 689 303	102	941.00
167 689 304	102	941.00
167 689 307	102	1027.00
167 689 308	102	1027.00
167 689 309	102	1027.00
167 689 312	102	1112.00
167 689 318	102	1200.00
167 689 319	102	1200.00
167 689 320	102	1200.00
167 689 325	102	1367.00
167 689 326	102	1367.00
167 689 327	102	1367.00
168 480 260	35	35.00
168 480 261	35	36.00
168 480 262	35	36.00
168 480 263	35	41.00
168 480 264	35	43.00
168 480 265	35	43.00
168 515 112	22	175.00
168 515 113	22	191.00
168 515 114	22	235.00
168 515 115	22	296.00
168 515 116	22	366.00
168 515 117	22	456.00
168 515 132	22	309.00
168 515 133	22	332.00
168 515 134	22	397.00
168 515 135	22	513.00
168 515 136	22	662.00
168 515 137	22	788.00
168 519 101	22	576.00
168 519 103	22	589.00
168 519 104	22	599.00
168 519 107	22	599.00
168 519 108	22	605.00
168 519 109	22	613.00
168 519 112	22	627.00
168 519 118	22	731.00
168 519 119	22	793.00
168 519 120	22	823.00
168 519 125	22	857.00
168 519 126	22	857.00
168 519 127	22	875.00

Part Number Page List Price

168 519 301	22	823.00
168 519 303	22	842.00
168 519 304	22	849.00
168 519 307	22	857.00
168 519 308	22	863.00
168 519 309	22	875.00
168 519 312	22	894.00
168 519 318	22	1049.00
168 519 319	22	1141.00
168 519 320	22	1172.00
168 519 325	22	1214.00
168 519 326	22	1237.00
168 519 327	22	1252.00
168 625 112	103	448.00
168 625 113	103	482.00
168 625 114	103	514.00
168 625 115	103	649.00
168 625 116	103	714.00
168 625 117	103	860.00
168 625 132	103	548.00
168 625 133	103	566.00
168 625 134	103	633.00
168 625 135	103	827.00
168 625 136	103	926.00
168 625 137	103	1112.00
168 629 101	103	895.00
168 629 103	103	895.00
168 629 104	103	895.00
168 629 107	103	978.00
168 629 108	103	978.00
168 629 109	103	978.00
168 629 112	103	1060.00
168 629 118	103	1142.00
168 629 119	103	1142.00
168 629 120	103	1142.00
168 629 125	103	1303.00
168 629 126	103	1303.00
168 629 127	103	1303.00
168 629 301	103	978.00
168 629 303	103	978.00
168 629 304	103	978.00
168 629 307	103	1060.00
168 629 308	103	1060.00
168 629 309	103	1060.00
168 629 312	103	1060.00
168 629 318	103	1142.00
168 629 319	103	1142.00
168 629 320	103	1142.00

Part Number Page List Price

168 629 325	103	1303.00
168 629 326	103	1303.00
168 629 327	103	1303.00
168 645 112	103	314.00
168 645 113	103	372.00
168 645 114	103	390.00
168 645 115	103	506.00
168 645 116	103	587.00
168 645 117	103	623.00
168 645 132	103	408.00
168 645 133	103	469.00
168 645 134	103	491.00
168 645 135	103	664.00
168 645 136	103	782.00
168 645 137	103	858.00
168 655 112	103	314.00
168 655 113	103	372.00
168 655 114	103	390.00
168 655 115	103	506.00
168 655 116	103	587.00
168 655 117	103	623.00
168 655 132	103	408.00
168 655 133	103	469.00
168 655 134	103	491.00
168 655 135	103	664.00
168 655 136	103	782.00
168 655 137	103	858.00
175 317 009	23	3911.00
175 317 012	23	10697.00
175 317 054	24	3952.00
175 317 057	24	13700.00
175 317 340	23	6083.00
175 317 355	24	6057.00
175 317 538	23	2067.00
175 317 568	24	2240.00
175 482 937	36	12.00
175 482 938	36	26.00
175 482 939	36	32.00
175 482 940	36	50.00
175 482 941	36	65.00
175 482 942	36	107.00
175 483 025	35	17.00
175 483 026	35	19.00
175 483 027	35	23.00
175 483 028	35	26.00
175 483 029	35	38.00
175 483 030	35	60.00
175 483 031	35	94.00

Part Number Page List Price

175 483 032	35	160.00
175 483 033	35	200.00
175 483 034	35	240.00
175 483 048	35	34.00
175 483 049	35	39.00
175 483 050	35	45.00
175 483 051	35	50.00
175 483 052	35	81.00
175 483 053	35	106.00
175 483 054	35	240.00
175 483 055	35	298.00
175 483 056	35	359.00
175 483 058	35	22.00
175 483 059	35	22.00
175 483 060	35	23.00
175 483 061	35	39.00
175 483 062	35	65.00
175 483 063	35	76.00
175 483 064	35	99.00
175 483 275	38	141.00
175 483 276	38	162.00
175 483 277	38	194.00
175 483 278	38	236.00
175 483 279	38	305.00
175 483 280	38	451.00
175 483 281	38	1054.00
175 483 282	38	1319.00
175 483 283	38	1580.00
175 483 379	6	212.00
175 483 380	6	238.00
175 483 381	6	283.00
175 483 382	6	314.00
175 483 383	6	349.00
175 483 384	6	408.00
175 483 642	39	245.00
175 483 643	39	285.00
175 483 644	39	297.00
175 483 645	39	319.00
175 483 646	39	369.00
175 483 647	39	384.00
175 483 652	39	245.00
175 483 653	39	285.00
175 483 654	39	297.00
175 483 655	39	319.00
175 483 656	39	369.00
175 483 657	39	384.00
175 523 411	10	390.00
175 523 412	10	415.00

Part Number Page List Price

175 523 492	10	567.00
175 543 011	13	441.00
175 543 012	13	466.00
175 543 013	13	562.00
175 543 014	13	735.00
175 543 015	13	857.00
175 543 016	13	1121.00
175 543 017	13	1569.00
175 543 052	13	512.00
175 543 053	13	626.00
175 543 054	13	819.00
175 543 055	13	996.00
175 543 056	13	1313.00
175 543 057	13	1712.00
175 543 071	13	498.00
175 543 072	13	512.00
175 543 073	13	626.00
175 543 074	13	819.00
175 543 075	13	996.00
175 543 076	13	1313.00
175 543 077	13	1712.00
175 543 111	13	441.00
175 543 112	13	466.00
175 543 113	13	562.00
175 543 114	13	735.00
175 543 115	13	857.00
175 543 116	13	1121.00
175 543 117	13	1569.00
175 543 152	13	512.00
175 543 153	13	626.00
175 543 154	13	819.00
175 543 155	13	996.00
175 543 156	13	1313.00
175 543 157	13	1712.00
175 543 171	13	498.00
175 543 172	13	512.00
175 543 173	13	626.00
175 543 174	13	819.00
175 543 175	13	996.00
175 543 176	13	1313.00
175 543 177	13	1712.00
175 546 272	6	294.00
175 546 273	6	353.00
175 546 274	6	466.00
175 546 275	6	626.00
175 546 276	6	849.00
175 546 277	6	1185.00
175 546 278	6	2862.00

Part Number Page List Price

175 546 279	6	3562.00
175 546 280	6	4276.00
175 546 331	6	288.00
175 546 332	6	305.00
175 546 333	6	360.00
175 546 334	6	466.00
175 546 335	6	626.00
175 546 336	6	819.00
175 546 337	6	1136.00
175 546 411	6	232.00
175 546 412	6	248.00
175 546 413	6	305.00
175 546 414	6	401.00
175 546 415	6	512.00
175 546 416	6	752.00
175 546 417	6	1040.00
175 546 418	6	2862.00
175 546 419	6	3562.00
175 546 420	6	4276.00
175 546 592	6	356.00
175 546 593	6	467.00
175 546 594	6	542.00
175 546 595	6	679.00
175 546 596	6	940.00
175 546 597	6	1280.00
175 546 818	6	3217.00
175 546 819	6	3987.00
175 546 820	6	4770.00
175 561 011	26	416.00
175 561 012	26	420.00
175 561 013	26	519.00
175 561 014	26	607.00
175 561 015	26	1002.00
175 561 016	26	1083.00
175 561 017	26	1816.00
175 561 018	26	4205.00
175 561 019	26	5258.00
175 561 020	26	6310.00
175 561 092	26	476.00
175 561 093	26	574.00
175 561 094	26	662.00
175 561 095	26	1105.00
175 561 096	26	1179.00
175 561 097	26	1953.00
175 561 098	26	4719.00
175 561 099	26	5896.00
175 561 100	26	7074.00
175 562 011	27	482.00

Part Number Page List Price

175 562 012	27	486.00
175 562 013	27	598.00
175 562 014	27	702.00
175 562 015	27	1145.00
175 562 016	27	1239.00
175 562 017	27	2083.00
175 562 018	27	4205.00
175 562 019	27	5258.00
175 562 020	27	6310.00
175 562 092	27	546.00
175 562 093	27	671.00
175 562 094	27	787.00
175 562 095	27	1287.00
175 562 096	27	1392.00
175 562 097	27	2337.00
175 562 098	27	4719.00
175 562 099	27	5896.00
175 562 100	27	7074.00
175 567 002	15	1056.00
175 567 003	15	1210.00
175 567 004	15	1469.00
175 567 005	15	1747.00
175 567 006	15	2728.00
175 567 007	15	2728.00
175 567 008	15	3577.00
175 567 009	15	6120.00
175 567 010	15	7665.00
175 567 022	15	1450.00
175 567 023	15	1629.00
175 567 024	15	1876.00
175 567 025	15	2059.00
175 567 026	15	2851.00
175 567 027	15	2851.00
175 567 028	15	3687.00
175 567 029	15	6443.00
175 567 030	15	8254.00
175 567 202	15	1224.00
175 567 203	15	1401.00
175 567 204	15	1703.00
175 567 205	15	2028.00
175 567 206	15	3127.00
175 567 207	15	3127.00
175 567 208	15	4008.00
175 567 209	15	8606.00
175 567 210	15	10848.00
175 567 222	15	1625.00
175 567 223	15	1797.00
175 567 224	15	2072.00

Part Number Page List Price

175 567 225	15	2279.00
175 567 226	15	3145.00
175 567 227	15	3145.00
175 567 228	15	4031.00
175 567 229	15	8668.00
175 567 230	15	10909.00
175 578 102	17	1557.00
175 578 103	17	2164.00
175 578 104	17	2164.00
175 578 105	17	2503.00
175 578 106	17	3806.00
175 578 107	17	3806.00
175 578 108	17	4769.00
175 578 109	17	8529.00
175 578 110	17	10235.00
175 578 122	17	1638.00
175 578 123	17	2277.00
175 578 124	17	2277.00
175 578 125	17	2635.00
175 578 126	17	4006.00
175 578 127	17	4006.00
175 578 128	17	5020.00
175 578 129	17	10043.00
175 578 130	17	12049.00
175 578 302	17	1868.00
175 578 303	17	2207.00
175 578 304	17	2596.00
175 578 305	17	3111.00
175 578 306	17	5292.00
175 578 307	17	5292.00
175 578 308	17	8603.00
175 578 309	17	13309.00
175 578 310	17	16866.00
175 578 322	17	1965.00
175 578 323	17	2323.00
175 578 324	17	2733.00
175 578 325	17	3274.00
175 578 326	17	5570.00
175 578 327	17	5570.00
175 578 328	17	9055.00
175 578 329	17	14009.00
175 578 330	17	17753.00
175 591 011	28	582.00
175 591 012	28	589.00
175 591 013	28	723.00
175 591 014	28	851.00
175 591 015	28	1401.00
175 591 016	28	1513.00

Part Number Page List Price

175 591 017	28	2551.00
175 591 018	28	5105.00
175 591 019	28	6380.00
175 591 020	28	7654.00
175 591 031	28	582.00
175 591 032	28	589.00
175 591 033	28	723.00
175 591 034	28	851.00
175 591 035	28	1401.00
175 591 036	28	1513.00
175 591 037	28	2551.00
175 595 011	29	602.00
175 595 012	29	609.00
175 595 013	29	747.00
175 595 014	29	876.00
175 595 015	29	1431.00
175 595 016	29	1549.00
175 595 017	29	2605.00
175 595 018	29	5207.00
175 595 019	29	6510.00
175 595 020	29	7812.00
175 595 031	29	602.00
175 595 032	29	609.00
175 595 033	29	747.00
175 595 034	29	876.00
175 595 035	29	1431.00
175 595 036	29	1549.00
175 595 037	29	2605.00
180 582 012	111	2137.00
180 582 013	111	3098.00
180 582 014	111	3422.00
180 582 015	111	3776.00
180 582 016	111	4261.00
180 582 017	111	5789.00
180 582 512	111	2245.00
180 582 513	111	3117.00
180 582 514	111	3591.00
180 582 515	111	4137.00
180 582 516	111	4474.00
180 582 517	111	6656.00
180 625 132	105	731.00
180 625 133	105	774.00
180 625 134	105	868.00
180 625 135	105	987.00
180 625 136	105	1259.00
180 625 137	105	1708.00
180 645 132	105	731.00
180 645 133	105	774.00

Part Number Page List Price

180 645 134	105	868.00
180 645 135	105	987.00
180 645 136	105	1259.00
180 645 137	105	1708.00
180 655 132	105	594.00
180 655 133	105	640.00
180 655 134	105	726.00
180 655 135	105	987.00
180 655 136	105	1212.00
180 655 137	105	1618.00
181 514 132	23	639.00
181 514 133	23	679.00
181 514 134	23	787.00
181 514 135	23	1091.00
181 514 136	23	1303.00
181 514 137	23	1725.00
181 514 152	23	670.00
181 514 153	23	712.00
181 514 154	23	825.00
181 514 155	23	1143.00
181 514 156	23	1366.00
181 514 157	23	1809.00
181 515 132	23	477.00
181 515 133	23	509.00
181 515 134	23	589.00
181 515 135	23	809.00
181 515 136	23	978.00
181 515 137	23	1284.00
181 515 152	23	501.00
181 515 153	23	535.00
181 515 154	23	617.00
181 515 155	23	849.00
181 515 156	23	1026.00
181 515 157	23	1349.00
181 519 301	24	965.00
181 519 303	24	980.00
181 519 304	24	997.00
181 519 307	24	997.00
181 519 308	24	997.00
181 519 309	24	1009.00
181 519 312	24	1009.00
181 519 313	24	1056.00
181 519 314	24	1089.00
181 519 315	24	1135.00
181 519 318	24	1274.00
181 519 319	24	1384.00
181 519 320	24	1428.00
181 519 321	24	1445.00

Part Number Page List Price

181 519 322	24	1508.00
181 519 325	24	1554.00
181 519 326	24	1632.00
181 519 327	24	1708.00
181 519 328	24	1803.00
181 519 329	24	1803.00
181 519 330	24	1975.00
181 519 341	24	2454.00
181 519 342	24	2485.00
181 519 343	24	2547.00
181 519 345	24	3104.00
181 519 346	24	3454.00
181 519 351	24	2688.00
181 519 352	24	2780.00
181 519 353	24	2873.00
181 519 355	24	3416.00
181 519 356	24	4349.00
181 519 501	24	1011.00
181 519 503	24	1028.00
181 519 504	24	1045.00
181 519 507	24	1045.00
181 519 508	24	1045.00
181 519 509	24	1060.00
181 519 512	24	1060.00
181 519 513	24	1106.00
181 519 514	24	1141.00
181 519 515	24	1191.00
181 519 518	24	1336.00
181 519 519	24	1451.00
181 519 520	24	1500.00
181 519 521	24	1516.00
181 519 522	24	1583.00
181 519 525	24	1630.00
181 519 526	24	1712.00
181 519 527	24	1792.00
181 519 528	24	1891.00
181 519 529	24	1891.00
181 519 530	24	2071.00
181 519 541	24	2574.00
181 519 542	24	2607.00
181 519 543	24	2672.00
181 519 545	24	3257.00
181 519 546	24	3624.00
181 519 551	24	2818.00
181 519 552	24	2918.00
181 519 553	24	3015.00
181 519 555	24	3585.00
181 519 556	24	4562.00

Part Number Page List Price

181 684 132	105	875.00
181 684 133	105	933.00
181 684 134	105	988.00
181 684 135	105	1243.00
181 684 136	105	1556.00
181 684 137	105	1896.00
181 684 152	105	918.00
181 684 153	105	980.00
181 684 154	105	1037.00
181 684 155	105	1305.00
181 684 156	105	1633.00
181 684 157	105	1991.00
181 685 132	105	831.00
181 685 133	105	886.00
181 685 134	105	943.00
181 685 135	105	1184.00
181 685 136	105	1481.00
181 685 137	105	1807.00
181 685 152	105	874.00
181 685 153	105	930.00
181 685 154	105	989.00
181 685 155	105	1244.00
181 685 156	105	1555.00
181 685 157	105	1897.00
181 689 301	106	1253.00
181 689 303	106	1263.00
181 689 304	106	1289.00
181 689 307	106	1279.00
181 689 308	106	1303.00
181 689 309	106	1288.00
181 689 312	106	1314.00
181 689 313	106	1333.00
181 689 314	106	1354.00
181 689 315	106	1367.00
181 689 318	106	1522.00
181 689 319	106	1635.00
181 689 320	106	1653.00
181 689 321	106	1690.00
181 689 322	106	1721.00
181 689 325	106	1770.00
181 689 326	106	1846.00
181 689 327	106	1898.00
181 689 328	106	2157.00
181 689 329	106	2246.00
181 689 330	106	2460.00
181 689 341	106	3044.00
181 689 342	106	3044.00
181 689 343	106	3044.00

Part Number Page List Price

181 689 345	106	4133.00
181 689 346	106	4133.00
181 689 351	106	3325.00
181 689 352	106	3325.00
181 689 353	106	3325.00
181 689 355	106	4668.00
181 689 356	106	4668.00
181 689 501	106	1317.00
181 689 503	106	1325.00
181 689 504	106	1353.00
181 689 507	106	1343.00
181 689 508	106	1367.00
181 689 509	106	1352.00
181 689 512	106	1381.00
181 689 513	106	1399.00
181 689 514	106	1422.00
181 689 515	106	1436.00
181 689 518	106	1598.00
181 689 519	106	1717.00
181 689 520	106	1736.00
181 689 521	106	1774.00
181 689 522	106	1808.00
181 689 525	106	1858.00
181 689 526	106	1940.00
181 689 527	106	1993.00
181 689 528	106	2265.00
181 689 529	106	2358.00
181 689 530	106	2583.00
181 689 541	106	3196.00
181 689 542	106	3196.00
181 689 543	106	3196.00
181 689 545	106	4340.00
181 689 546	106	4340.00
181 689 551	106	3491.00
181 689 552	106	3491.00
181 689 553	106	3491.00
181 689 555	106	4902.00
181 689 556	106	4902.00
185 489 131	114	491.00
185 489 133	114	656.00
185 489 136	114	1024.00
185 489 161	114	576.00
185 489 163	114	574.00
185 489 166	114	1117.00
185 514 032	23	491.00
185 514 033	23	523.00
185 514 034	23	607.00
185 514 035	23	830.00

Part Number Page List Price

185 514 036	23	1002.00
185 514 037	23	1313.00
185 514 132	23	491.00
185 514 133	23	523.00
185 514 134	23	607.00
185 514 135	23	830.00
185 514 136	23	1002.00
185 514 137	23	1313.00
185 515 132	23	364.00
185 515 133	23	397.00
185 515 134	23	452.00
185 515 135	23	623.00
185 515 136	23	753.00
185 515 137	23	987.00
185 517 732	23	435.00
185 517 733	23	482.00
185 517 734	23	554.00
185 517 735	23	746.00
185 517 736	23	901.00
185 517 737	23	1188.00
185 582 012	111	1425.00
185 582 013	111	2152.00
185 582 014	111	2379.00
185 582 015	111	2737.00
185 582 016	111	3087.00
185 582 017	111	3860.00
185 582 112	111	1710.00
185 582 113	111	2581.00
185 582 114	111	2737.00
185 582 115	111	3283.00
185 582 116	111	3551.00
185 582 117	111	4631.00
185 582 512	111	1797.00
185 582 513	111	2710.00
185 582 514	111	2873.00
185 582 515	111	3448.00
185 582 516	111	3728.00
185 582 517	111	5326.00
185 586 012	112	1145.00
185 586 013	112	1369.00
185 586 014	112	1696.00
185 586 015	112	2545.00
185 586 016	112	2850.00
185 586 017	112	3423.00
185 586 112	112	1431.00
185 586 113	112	1712.00
185 586 114	112	2121.00
185 586 115	112	3180.00

Part Number Page List Price

185 586 116	112	3564.00
185 586 117	112	4279.00
185 586 512	112	1575.00
185 586 513	112	1884.00
185 586 514	112	2333.00
185 586 515	112	3498.00
185 586 516	112	3920.00
185 586 517	112	4705.00
185 624 032	104	628.00
185 624 033	104	667.00
185 624 034	104	774.00
185 624 035	104	1114.00
185 624 036	104	1301.00
185 624 037	104	1618.00
185 624 132	104	628.00
185 624 133	104	667.00
185 624 134	104	774.00
185 624 135	104	1114.00
185 624 136	104	1301.00
185 624 137	104	1618.00
185 625 132	104	563.00
185 625 133	104	623.00
185 625 134	104	672.00
185 625 135	104	837.00
185 625 136	104	1015.00
185 625 137	104	1248.00
185 627 732	104	628.00
185 627 733	104	667.00
185 627 734	104	774.00
185 627 735	104	1114.00
185 627 736	104	1301.00
185 627 737	104	1618.00
185 644 032	104	574.00
185 644 033	104	619.00
185 644 034	104	752.00
185 644 035	104	1023.00
185 644 036	104	1259.00
185 644 037	104	1584.00
185 644 132	104	574.00
185 644 133	104	619.00
185 644 134	104	752.00
185 644 135	104	1023.00
185 644 136	104	1259.00
185 644 137	104	1584.00
185 645 132	104	490.00
185 645 133	104	523.00
185 645 134	104	581.00
185 645 135	104	810.00

Part Number Page List Price

185 645 136	104	987.00
185 645 137	104	1349.00
185 647 732	104	851.00
185 647 733	104	941.00
185 647 734	104	990.00
185 647 735	104	1088.00
185 647 736	104	1322.00
185 647 737	104	1698.00
185 654 032	104	574.00
185 654 033	104	619.00
185 654 034	104	752.00
185 654 035	104	1023.00
185 654 036	104	1259.00
185 654 037	104	1584.00
185 654 132	104	574.00
185 654 133	104	619.00
185 654 134	104	752.00
185 654 135	104	1023.00
185 654 136	104	1259.00
185 654 137	104	1584.00
185 655 132	104	490.00
185 655 133	104	523.00
185 655 134	104	581.00
185 655 135	104	810.00
185 655 136	104	987.00
185 655 137	104	1349.00
185 657 732	104	810.00
185 657 733	104	896.00
185 657 734	104	944.00
185 657 735	104	1035.00
185 657 736	104	1259.00
185 657 737	104	1618.00
185 684 032	104	714.00
185 684 033	104	752.00
185 684 034	104	805.00
185 684 035	104	1013.00
185 684 036	104	1278.00
185 684 037	104	1542.00
185 684 132	104	728.00
185 684 133	104	775.00
185 684 134	104	826.00
185 684 135	104	1038.00
185 684 136	104	1294.00
185 684 137	104	1577.00
185 685 132	104	676.00
185 685 133	104	720.00
185 685 134	104	769.00
185 685 135	104	967.00

Part Number Page List Price

185 685 136	104	1203.00
185 685 137	104	1467.00
185 687 732	104	987.00
185 687 733	104	1075.00
185 687 734	104	1123.00
185 687 735	104	1212.00
185 687 736	104	1473.00
185 687 737	104	1721.00
192 304 006	31	52.00
192 304 007	31	61.00
192 304 008	31	70.00
192 304 009	31	91.00
192 304 010	31	128.00
192 304 011	31	186.00
192 304 013	31	418.00
192 304 031	31	63.00
192 304 032	31	75.00
192 304 033	31	87.00
192 304 034	31	117.00
192 304 035	31	183.00
192 304 036	31	255.00
192 304 038	31	484.00
192 306 300	31	61.00
192 306 349	31	75.00
192 306 350	31	71.00
192 306 399	31	83.00
192 306 400	31	80.00
192 306 449	31	88.00
192 306 450	31	138.00
192 306 499	31	150.00
192 306 500	31	145.00
192 306 549	31	165.00
192 306 550	31	180.00
192 306 599	31	202.00
192 306 650	31	342.00
192 306 699	31	401.00
198 000 500	77	140.00
198 000 501	77	140.00
198 000 595	93	85.00
198 000 596	93	101.00
198 000 597	93	116.00
198 000 598	93	116.00
198 000 600	67	140.00
198 000 601	67	49.00
198 000 602	67	49.00
198 000 603	67	64.00
198 000 623	67	910.00
198 000 624	67	910.00

Part Number Page List Price

198 000 625	92	910.00
198 000 627	92	910.00
198 000 628	92	910.00
198 000 629	92	910.00
198 000 630	92	910.00
198 000 631	92	910.00
198 000 730	93	96.00
198 000 731	93	78.00
198 000 732	67	75.00
198 000 872	109	54.00
198 000 873	109	54.00
198 000 874	109	56.00
198 000 875	109	56.00
198 000 876	109	61.00
198 000 877	109	61.00
198 039 020	16	3596.00
198 039 021	16	4607.00
198 039 022	16	6648.00
198 039 023	16	8108.00
198 039 024	16	13105.00
198 039 030	16	4859.00
198 039 031	16	6246.00
198 039 032	16	9821.00
198 039 033	16	11275.00
198 039 034	16	17247.00
198039060	16	5937.00
198039061	16	8235.00
198039062	16	12272.00
198039063	16	15027.00
198039064	16	22066.00
198 039 070	16	7071.00
198 039 071	16	9706.00
198 039 072	16	15119.00
198 039 073	16	17867.00
198 039 074	16	27088.00
198 150 127	77	270.00
198 150 128	77	270.00
198 150 129	77	245.00
198 150 130	77	320.00
198 150 131	77	320.00
198 150 132	77	282.00
198 150 144	77	383.00
198 150 145	77	383.00
198 150 146	77	336.00
198 150 147	77	435.00
198 150 148	77	435.00
198 150 149	77	377.00
198 150 556	49	28.00

Part Number Page List Price

198 150 557	49	28.00
198 150 558	49	28.00
198 150 559	49	28.00
198 151 742	41	84.00
198 151 743	41	105.00
198 151 744	41	117.00
198 151 745	41	141.00
198 151 746	41	173.00
198 151 747	41	212.00
198 151 752	41	102.00
198 151 753	41	130.00
198 151 754	41	147.00
198 151 755	41	176.00
198 151 756	41	217.00
198 151 757	41	263.00
198 151 772	109	278.00
198 151 773	109	292.00
198 151 774	109	307.00
198 151 775	109	402.00
198 151 776	109	470.00
198 151 777	109	523.00
198 151 792	109	218.00
198 151 793	109	228.00
198 151 794	109	244.00
198 151 795	109	296.00
198 151 796	109	344.00
198 151 797	109	395.00
198 151 802	109	218.00
198 151 803	109	228.00
198 151 804	109	244.00
198 151 805	109	296.00
198 151 806	109	344.00
198 151 807	109	395.00
198 153 062	109	#N/A
198 153 063	109	#N/A
198 153 064	109	#N/A
198 153 065	109	#N/A
198 153 066	109	#N/A
198 153 067	109	#N/A
198 153 180	49	407.00
198 153 181	49	407.00
198 153 182	67	834.00
198 153 183	67	834.00
198 153 184	67	1102.00
198 153 185	67	1102.00
198 153 186	67	1303.00
198 153 187	67	1303.00
198 153 188	67	1804.00

Part Number Page List Price

198 153 189	67	1804.00
198 335 160	118	468.00
198 335 161	118	782.00
198 335 162	118	782.00
198 335 163	118	1051.00
198 335 164	118	1051.00
198 335 165	118	1651.00
198 335 166	118	1651.00
198 335 960	119	106.00
198 335 961	119	106.00
198 335 962	119	652.00
198 335 963	119	652.00
198 335 964	119	652.00
198 335 965	119	652.00
198 335 966	119	652.00
198 335 967	119	652.00
198 335 968	119	652.00
198 335 969	119	652.00
198 335 991	119	652.00
198 335 992	119	652.00
198 335 993	119	652.00
198 335 994	119	652.00
198 335 995	119	652.00
198 800 037	77	434.00
198 800 039	93	602.00
198 800 040	93	334.00
198 800 041	93	926.00
198 800 042	93	463.00
198 800 043	93	1501.00
198 800 044	93	676.00
198 800 045	93	2686.00
198 800 046	93	1070.00
198 800 047	93	3525.00
198 800 048	93	1325.00
198 800 050	93	2089.00
198 800 051	93	2889.00
198 800 728	77	495.00
198 800 729	93	751.00
198 800 730	93	1390.00
198 800 731	93	1955.00
198 800 734	93	542.00
198 800 735	93	857.00
198 800 737	93	271.00
198 800 757	77	377.00
198 800 758	93	270.00
198 800 759	93	289.00
198 801 386	120	23.00
198 801 387	120	23.00

Part Number Page List Price

198 801 388	120	23.00
198 801 389	120	23.00
198 801 390	120	23.00
198 801 391	120	23.00
198 801 392	120	23.00
198 801 393	120	23.00
198 801 394	120	23.00
198 801 395	120	23.00
198 801 961	120	23.00
198 801 962	120	23.00
198 801 963	120	23.00
198 801 964	120	23.00
198 801 965	120	23.00
198 801 966	120	23.00
198 801 967	120	23.00
198 801 968	120	23.00
198 801 969	120	23.00
198 801 970	120	23.00
198 806 100	122	121.00
198 806 101	122	121.00
198 806 102	122	121.00
198 806 103	122	125.00
198 806 104	122	125.00
198 806 105	122	125.00
198 806 106	122	141.00
198 806 107	122	141.00
198 806 108	122	141.00
198 806 109	122	141.00
198 806 110	122	181.00
198 806 111	122	181.00
198 806 112	122	181.00
198 806 113	122	199.00
198 806 114	122	199.00
198 806 115	122	199.00
198 806 116	122	253.00
198 806 117	122	253.00
198 806 118	122	253.00
198 806 119	122	253.00
198 806 421	122	221.00
198 806 422	122	236.00
198 806 429	122	98.00
198 806 650	114	111.00
198 806 651	114	55.00
198 806 652	114	165.00
198 806 654	114	128.00
198 806 655	114	71.00
198 806 656	114	182.00
198 806 962	114	55.00

Part Number Page List Price

198 806 963	114	165.00
198 807 202	118	468.00
198 807 209	118	468.00
198 807 210	118	468.00
198 807 550	118	153.00
198 807 551	118	153.00
198 807 552	118	153.00
198 807 553	118	157.00
198 807 554	118	157.00
198 807 555	118	157.00
198 807 556	118	183.00
198 807 557	118	183.00
198 807 558	118	183.00
198 807 559	118	183.00
198 807 576	118	208.00
198 807 577	118	208.00
198 807 578	118	208.00
198 807 579	118	227.00
198 807 580	118	227.00
198 807 581	118	227.00
198 807 582	118	294.00
198 807 583	118	294.00
198 807 584	118	294.00
198 807 585	118	294.00
198 807 602	118	166.00
198 807 603	118	166.00
198 807 604	118	166.00
198 807 605	118	176.00
198 807 606	118	176.00
198 807 607	118	176.00
198 807 608	118	201.00
198 807 609	118	201.00
198 807 610	118	201.00
198 807 611	118	201.00
198 807 612	118	210.00
198 807 613	118	210.00
198 807 614	118	210.00
198 807 615	118	236.00
198 807 616	118	236.00
198 807 617	118	236.00
198 807 618	118	303.00
198 807 619	118	303.00
198 807 620	118	303.00
198 807 621	118	303.00
198 811 025	93	377.00
198 811 026	93	434.00
198 811 027	93	495.00
198 811 028	93	602.00

Part Number Page List Price

198 811 029	93	751.00
198 811 030	93	926.00
198 811 198	93	1860.00
199 025 007	96	1518.00
199 025 009	96	2406.00
199 025 017	96	1045.00
199 025 019	96	2200.00
199 025 027	96	1045.00
199 025 029	96	2200.00
199 025 037	96	1720.00
199 025 039	96	2748.00
199 025 047	96	1290.00
199 025 049	96	2452.00
199 025 057	96	1290.00
199 025 059	96	2452.00
199 025 067	96	1634.00
199 025 068	96	2267.00
199 025 069	96	2610.00
199 025 070	96	5951.00
199 025 077	96	1224.00
199 025 078	96	1892.00
199 025 079	96	2329.00
199 025 080	96	5889.00
199 025 087	96	1224.00
199 025 088	96	1892.00
199 025 089	96	2329.00
199 025 090	96	5889.00
199 025 128	96	1981.00
199 025 130	96	5176.00
199 025 138	96	1621.00
199 025 140	96	5166.00
199 025 148	96	1621.00
199 025 150	96	5166.00
199 025 158	96	2386.00
199 025 168	96	1992.00
199 025 170	96	6200.00
199 025 178	96	1992.00
199 025 180	96	6200.00
199 025 207	102	1838.00
199 025 209	102	2738.00
199 025 217	102	1169.00
199 025 219	102	2332.00
199 025 227	102	1169.00
199 025 229	102	2332.00
199 025 237	102	2242.00
199 025 239	102	3340.00
199 025 247	102	1399.00
199 025 249	102	2799.00

Part Number Page List Price

199 025 257	102	1399.00
199 025 259	102	2799.00
199 025 268	102	2301.00
199 025 270	102	6026.00
199 025 278	102	1747.00
199 025 280	102	5509.00
199 025 288	102	1747.00
199 025 290	102	5509.00
199 025 298	102	2807.00
199 025 308	102	2100.00
199 025 310	102	6612.00
199 025 318	102	2100.00
199 025 320	102	6612.00
199 025 327	105	3173.00
199 025 329	105	5322.00
199 025 337	105	2538.00
199 025 339	105	4262.00
199 025 347	105	2538.00
199 025 349	105	4262.00
199 025 358	105	4137.00
199 025 368	105	3397.00
199 025 370	105	8235.00
199 025 378	105	3397.00
199 025 380	105	8235.00
199 025 387	105	3478.00
199 025 389	105	5822.00
199 025 397	105	2724.00
199 025 399	105	5388.00
199 025 407	105	2724.00
199 025 409	105	5388.00
199 025 448	105	4522.00
199 025 458	105	4222.00
199 025 460	105	13109.00
199 025 468	105	4222.00
199 025 470	105	13109.00
199 025 471	99	1773.00
199 025 472	99	2334.00
199 025 473	99	3095.00
199 025 475	99	1984.00
199 025 476	99	2785.00
199 025 477	99	1565.00
199 025 478	99	1984.00
199 025 479	99	2592.00
199 025 637	99	1562.00
199 025 639	99	2649.00
199 025 647	99	1339.00
199 025 649	99	2851.00
199 025 657	99	1339.00

Part Number Page List Price

199 025 659	99	2352.00
199 025 667	99	1902.00
199 025 669	99	3257.00
199 025 677	99	1646.00
199 025 679	99	2932.00
199 025 687	99	1646.00
199 025 689	99	2729.00
199 025 698	99	2134.00
199 025 708	99	1769.00
199 025 718	99	1769.00
199 025 728	99	2456.00
199 025 738	99	2089.00
199 025 748	99	2089.00
199 041 637	113	2478.00
199 041 638	113	5178.00
199 041 639	113	8190.00
199 041 640	113	2853.00
199 041 647	113	5575.00
199 041 648	113	8907.00
199 041 657	113	1745.00
199 041 658	113	2801.00
199 041 659	113	4255.00
199 041 660	113	1908.00
199 041 667	113	2935.00
199 041 668	113	4442.00
199 041 773	113	1904.00
199 041 774	113	3507.00
199 041 775	113	6666.00
199 041 776	113	2181.00
199 041 777	113	3385.00
199 041 778	113	6666.00
199 041 779	113	1437.00
199 041 780	113	2290.00
199 041 781	113	3526.00
199 041 782	113	1520.00
199 041 783	113	2409.00
199 041 784	113	3679.00
199 127 202	45	506.00
199 127 203	1	509.00
199 127 204	45	516.00
199 127 205	1	523.00
199 127 206	45	539.00
199 127 207	1	546.00
199 127 208	1	573.00
199 127 212	45	516.00
199 127 213	1	516.00
199 127 214	45	523.00
199 127 215	1	534.00

Part Number Page List Price

199 127 216	45	550.00
199 127 217	1	567.00
199 127 218	1	596.00
199 127 283	45	569.00
199 127 284	45	576.00
199 127 285	45	587.00
199 127 286	45	620.00
199 127 287	45	624.00
199 127 288	45	649.00
199 127 293	45	576.00
199 127 294	45	587.00
199 127 295	45	594.00
199 127 296	45	630.00
199 127 297	45	639.00
199 127 298	45	673.00
199 127 302	45	526.00
199 127 303	45	527.00
199 127 304	45	538.00
199 127 305	45	553.00
199 127 306	45	573.00
199 127 307	45	592.00
199 127 308	45	619.00
199 127 312	45	531.00
199 127 313	45	534.00
199 127 314	45	546.00
199 127 315	45	563.00
199 127 316	45	590.00
199 127 317	45	613.00
199 127 318	45	654.00
199 145 002	56	2015.00
199 145 003	56	2022.00
199 145 004	56	2034.00
199 145 005	56	2049.00
199 145 006	56	2136.00
199 145 007	56	2136.00
199 145 008	56	2660.00
199 145 022	56	2107.00
199 145 023	56	2110.00
199 145 024	56	2123.00
199 145 025	56	2146.00
199 145 026	56	2264.00
199 145 027	56	2264.00
199 145 028	56	2731.00
199 145 042	56	1365.00
199 145 043	56	1372.00
199 145 044	2	1381.00
199 145 045	2	1398.00
199 145 046	56	1444.00

Part Number Page List Price

199 145 047	2	1444.00
199 145 048	2	1975.00
199 145 049	56	3847.00
199 145 050	56	4142.00
199 145 062	56	1456.00
199 145 063	56	1461.00
199 145 064	2	1471.00
199 145 065	2	1494.00
199 145 066	56	1570.00
199 145 067	2	1570.00
199 145 068	2	2044.00
199 145 069	56	4344.00
199 145 070	56	5044.00
199 145 082	56	2015.00
199 145 083	56	2022.00
199 145 084	56	2034.00
199 145 085	56	2049.00
199 145 086	56	2136.00
199 145 087	56	2136.00
199 145 088	56	2660.00
199 145 122	56	1365.00
199 145 123	56	1372.00
199 145 124	56	1381.00
199 145 125	56	1398.00
199 145 126	56	1444.00
199 145 127	56	1444.00
199 145 128	56	1975.00
199 145 129	56	3847.00
199 145 130	56	4142.00
199 145 142	56	1456.00
199 145 143	56	1461.00
199 145 144	56	1471.00
199 145 145	56	1494.00
199 145 146	56	1570.00
199 145 147	56	1570.00
199 145 148	56	2044.00
199 145 149	56	4344.00
199 145 150	56	5044.00
199 145 162	57	2167.00
199 145 163	57	2208.00
199 145 164	57	2281.00
199 145 165	57	2354.00
199 145 166	57	2574.00
199 145 167	57	2574.00
199 145 168	57	3131.00
199 145 202	57	1517.00
199 145 203	57	1558.00
199 145 204	57	1632.00

Part Number Page List Price

199 145 205	57	1705.00
199 145 206	57	1882.00
199 145 207	57	1882.00
199 145 208	57	2442.00
199 145 209	57	4617.00
199 145 210	57	4970.00
199 145 222	57	1567.00
199 145 223	57	1627.00
199 145 224	57	1703.00
199 145 225	57	1778.00
199 145 226	57	1973.00
199 145 227	57	1973.00
199 145 228	57	2562.00
199 145 229	57	5213.00
199 145 242	57	2167.00
199 145 243	57	2208.00
199 145 244	57	2281.00
199 145 245	57	2354.00
199 145 246	57	2574.00
199 145 247	57	2574.00
199 145 248	57	3131.00
199 145 282	57	1517.00
199 145 283	57	1558.00
199 145 284	57	1632.00
199 145 285	57	1705.00
199 145 286	57	1882.00
199 145 287	57	1882.00
199 145 288	57	2442.00
199 145 289	57	4617.00
199 145 290	57	4970.00
199 145 322	58	2107.00
199 145 323	58	2123.00
199 145 324	58	2157.00
199 145 325	58	2332.00
199 145 326	58	2332.00
199 145 327	58	2385.00
199 145 328	58	2878.00
199 145 362	58	1456.00
199 145 363	58	1472.00
199 145 364	58	1508.00
199 145 365	58	1570.00
199 145 366	58	1690.00
199 145 367	58	1690.00
199 145 368	58	2192.00
199 145 369	58	3633.00
199 145 370	58	3786.00
199 145 402	58	2107.00
199 145 403	58	2123.00

Part Number Page List Price

199 145 404	58	2157.00
199 145 405	58	2222.00
199 145 406	58	2385.00
199 145 407	58	2385.00
199 145 408	58	2878.00
199 145 442	58	1456.00
199 145 443	58	1558.00
199 145 444	58	1593.00
199 145 445	58	1674.00
199 145 446	58	1892.00
199 145 447	58	1892.00
199 145 448	58	2365.00
199 145 449	58	4035.00
199 145 450	58	4095.00
199 145 562	59	2607.00
199 145 563	59	2762.00
199 145 564	59	2939.00
199 145 565	59	3128.00
199 145 566	59	3794.00
199 145 567	59	3794.00
199 145 568	59	4732.00
199 147 002	60	2335.00
199 147 003	60	2353.00
199 147 004	60	2353.00
199 147 005	60	2702.00
199 147 006	60	2959.00
199 147 007	60	2959.00
199 147 008	60	3731.00
199 147 022	60	2418.00
199 147 023	60	2435.00
199 147 024	60	2436.00
199 147 025	60	2826.00
199 147 026	60	3147.00
199 147 027	60	3147.00
199 147 028	60	3949.00
199 147 042	60	1685.00
199 147 043	60	1702.00
199 147 044	60	1724.00
199 147 045	60	2052.00
199 147 046	60	2267.00
199 147 047	60	2267.00
199 147 048	60	3046.00
199 147 049	60	4522.00
199 147 050	60	4817.00
199 147 202	61	1892.00
199 147 203	61	1923.00
199 147 204	61	1959.00
199 147 205	61	2466.00

Part Number Page List Price

199 147 206	61	2845.00
199 147 207	61	2845.00
199 147 208	61	3781.00
199 147 209	61	8186.00
199 147 210	61	9735.00
199 147 282	61	1892.00
199 147 283	61	1923.00
199 147 284	61	1959.00
199 147 285	61	2466.00
199 147 286	61	2845.00
199 147 287	61	2845.00
199 147 288	61	3781.00
199 147 289	61	8186.00
199 147 290	61	9735.00
199 147 362	62	1949.00
199 147 363	62	2094.00
199 147 364	62	2161.00
199 147 365	62	2424.00
199 147 366	62	2960.00
199 147 367	62	2960.00
199 147 368	62	3834.00
199 147 369	62	4710.00
199 147 370	62	5227.00
199 147 582	63	2247.00
199 147 583	63	2534.00
199 147 584	63	2526.00
199 147 585	63	2784.00
199 147 586	63	3837.00
199 147 587	63	3837.00
199 147 588	63	4615.00
199 147 589	63	6651.00
199 147 590	63	7270.00
199 147 642	63	3217.00
199 147 643	63	3448.00
199 147 644	63	3369.00
199 147 645	63	4046.00
199 147 646	63	5971.00
199 147 647	63	5971.00
199 147 648	63	8694.00
199 167 382	51	1126.00
199 167 383	51	1128.00
199 167 384	51	1143.00
199 167 385	51	1170.00
199 167 386	51	1189.00
199 167 387	51	1266.00
199 167 388	51	1309.00
199 167 392	51	1136.00
199 167 393	51	1139.00

Part Number Page List Price

199 167 394	51	1154.00
199 167 395	51	1183.00
199 167 396	51	1208.00
199 167 397	51	1290.00
199 167 398	51	1347.00
199 167 422	51	1126.00
199 167 423	51	1128.00
199 167 424	51	1143.00
199 167 425	51	1170.00
199 167 426	51	1189.00
199 167 427	51	1266.00
199 167 428	51	1309.00
199 167 432	51	1136.00
199 167 433	51	1139.00
199 167 434	51	1154.00
199 167 435	51	1183.00
199 167 436	51	1208.00
199 167 437	51	1290.00
199 167 438	51	1347.00
199 168 022	52	1186.00
199 168 023	52	1186.00
199 168 024	52	1207.00
199 168 025	52	1260.00
199 168 026	52	1329.00
199 168 027	52	1440.00
199 168 028	52	1499.00
199 168 032	52	1216.00
199 168 033	52	1216.00
199 168 034	52	1258.00
199 168 035	52	1328.00
199 168 036	52	1469.00
199 168 037	52	1605.00
199 168 038	52	1790.00
199 168 062	52	1186.00
199 168 063	52	1186.00
199 168 064	52	1207.00
199 168 065	52	1260.00
199 168 066	52	1329.00
199 168 067	52	1440.00
199 168 068	52	1499.00
199 168 072	52	1216.00
199 168 073	52	1216.00
199 168 074	52	1258.00
199 168 075	52	1328.00
199 168 076	52	1469.00
199 168 077	52	1605.00
199 168 078	52	1790.00
199 168 083	52	1186.00

Part Number Page List Price

199 168 084	52	1207.00
199 168 085	52	1260.00
199 168 086	52	1329.00
199 168 087	52	1440.00
199 168 088	52	1499.00
199 168 093	52	1216.00
199 168 094	52	1258.00
199 168 095	52	1328.00
199 168 096	52	1469.00
199 168 097	52	1605.00
199 168 098	52	1790.00
199 168 103	52	1186.00
199 168 104	52	1207.00
199 168 105	52	1260.00
199 168 106	52	1329.00
199 168 107	52	1440.00
199 168 108	52	1499.00
199 168 113	52	1216.00
199 168 114	52	1258.00
199 168 115	52	1328.00
199 168 116	52	1469.00
199 168 117	52	1605.00
199 168 118	52	1790.00
199 169 092	53	1459.00
199 169 093	53	1459.00
199 169 094	53	1565.00
199 169 095	53	1717.00
199 169 096	53	1925.00
199 169 097	53	2159.00
199 169 098	53	2594.00
199 169 112	53	1459.00
199 169 113	53	1459.00
199 169 114	53	1565.00
199 169 115	53	1717.00
199 169 116	53	1925.00
199 169 117	53	2159.00
199 169 118	53	2594.00
199 169 242	53	1459.00
199 169 243	53	1459.00
199 169 244	53	1565.00
199 169 245	53	1717.00
199 169 246	53	1925.00
199 169 247	53	2159.00
199 169 248	53	2594.00
199 169 252	53	1459.00
199 169 253	53	1459.00
199 169 254	53	1565.00
199 169 255	53	1717.00

Part Number Page List Price

199 169 256	53	1925.00
199 169 257	53	2159.00
199 169 258	53	2594.00
199 180 002	44	1045.00
199 180 006	44	1115.00
199 180 007	44	1154.00
199 180 008	44	1196.00
199 180 009	44	2117.00
199 180 010	44	2232.00
199 180 011	44	2362.00
199 180 012	44	1062.00
199 180 016	44	1142.00
199 180 017	44	1176.00
199 180 018	44	1250.00
199 180 019	44	2225.00
199 180 020	44	2362.00
199 180 021	44	2525.00
199 180 042	44	1045.00
199 180 046	44	1115.00
199 180 047	44	1154.00
199 180 048	44	1196.00
199 180 049	44	1761.00
199 180 050	44	1857.00
199 180 051	44	1973.00
199 180 052	44	1062.00
199 180 056	44	1142.00
199 180 057	44	1176.00
199 180 058	44	1250.00
199 180 059	44	2225.00
199 180 060	44	2362.00
199 180 061	44	2525.00
199 180 323	44	1152.00
199 180 324	44	1172.00
199 180 325	44	1196.00
199 180 326	44	1228.00
199 180 327	44	1271.00
199 180 328	44	1315.00
199 180 329	44	2327.00
199 180 330	44	2455.00
199 180 331	44	2599.00
199 180 363	44	1152.00
199 180 364	44	1172.00
199 180 365	44	1196.00
199 180 366	44	1228.00
199 180 367	44	1271.00
199 180 368	44	1315.00
199 180 369	44	1935.00
199 180 370	44	2042.00

Part Number Page List Price

199 180 371	44	2169.00
199 180 373	44	1170.00
199 180 374	44	1188.00
199 180 375	44	1212.00
199 180 376	44	1256.00
199 180 377	44	1294.00
199 180 378	44	1376.00
199 180 379	44	2448.00
199 180 380	44	2599.00
199 180 381	44	2777.00
199 181 012	45	1223.00
199 181 013	45	1236.00
199 181 014	45	1288.00
199 181 015	45	1364.00
199 181 016	45	1467.00
199 181 017	45	1665.00
199 181 018	45	1909.00
199 181 019	45	3852.00
199 181 020	45	4623.00
199 181 021	45	5318.00
199 181 113	45	1236.00
199 181 114	45	1288.00
199 181 115	45	1364.00
199 181 116	45	1467.00
199 181 117	45	1665.00
199 181 118	45	1909.00
199 181 119	45	3852.00
199 181 120	45	4623.00
199 181 121	45	5318.00
199 182 002	43	1027.00
199 182 003	1	1028.00
199 182 004	43	1039.00
199 182 005	1	1059.00
199 182 006	43	1076.00
199 182 007	1	1106.00
199 182 008	1	1141.00
199 182 009	43	1843.00
199 182 010	43	1909.00
199 182 011	43	1987.00
199 182 012	43	1036.00
199 182 013	1	1037.00
199 182 014	43	1052.00
199 182 015	1	1072.00
199 182 016	43	1096.00
199 182 017	1	1128.00
199 182 018	1	1176.00
199 182 019	43	1863.00
199 182 020	43	1942.00

Part Number Page List Price

199 182 021	43	2029.00
199 182 022	43	1027.00
199 182 023	43	1028.00
199 182 024	43	1039.00
199 182 025	43	1059.00
199 182 026	43	1076.00
199 182 027	43	1106.00
199 182 028	43	1140.00
199 182 029	43	1808.00
199 182 030	43	1873.00
199 182 031	43	1942.00
199 182 032	43	1036.00
199 182 033	43	1037.00
199 182 034	43	1052.00
199 182 035	43	1072.00
199 182 036	43	1096.00
199 182 037	43	1128.00
199 182 038	43	1176.00
199 182 039	43	1863.00
199 182 040	43	1956.00
199 182 041	43	2029.00
199 182 402	43	1052.00
199 182 403	43	1066.00
199 182 404	43	1083.00
199 182 405	43	1104.00
199 182 406	43	1165.00
199 182 407	43	1206.00
199 182 408	43	1261.00
199 182 409	43	2029.00
199 182 410	43	2117.00
199 182 411	43	2257.00
199 182 412	43	1062.00
199 182 413	43	1072.00
199 182 414	43	1099.00
199 182 415	43	1134.00
199 182 416	43	1180.00
199 182 417	43	1249.00
199 182 418	43	1314.00
199 182 419	43	2117.00
199 182 420	43	2225.00
199 182 421	43	2362.00
199 182 422	43	1052.00
199 182 423	43	1066.00
199 182 424	43	1083.00
199 182 425	43	1104.00
199 182 426	43	1165.00
199 182 427	43	1206.00
199 182 428	43	1261.00

Part Number Page List Price

199 182 429	43	2070.00
199 182 430	43	2182.00
199 182 431	43	2280.00
199 182 432	43	1062.00
199 182 433	43	1072.00
199 182 434	43	1099.00
199 182 435	43	1134.00
199 182 436	43	1180.00
199 182 437	43	1249.00
199 182 438	43	1314.00
199 182 439	43	2117.00
199 182 440	43	2280.00
199 182 441	43	2445.00
199 190 001	108	2464.00
199 190 029	108	2737.00
199 190 108	76	1679.00
199 190 109	76	342.00
199 190 275	76	61.00
199 190 281	83	52.00
199 190 282	76	346.00
199 190 283	76	558.00
199 190 284	76	558.00
199 190 285	76	565.00
199 190 286	76	1104.00
199 190 287	76	314.00
199 190 293	108	306.00
199 190 294	108	827.00
199 190 295	108	827.00
199 190 296	108	589.00
199 190 297	108	352.00
199 190 298	108	1276.00
199 190 302	76	241.00
199 190 303	76	241.00
199 190 304	76	241.00
199 190 305	108	227.00
199 190 306	108	247.00
199 190 307	108	570.00
199 190 308	108	570.00
199 190 309	108	486.00
199 190 318	109	116.00
199 190 319	109	154.00
199 190 357	76	197.00
199 190 358	76	197.00
199 190 359	76	197.00
199 190 360	76	197.00
199 190 361	76	197.00
199 190 378	109	68.00
199 190 379	109	84.00

Part Number Page List Price

199 190 381	109	41.00
199 190 382	109	41.00
199 190 383	109	48.00
199 190 384	109	58.00
199 190 385	109	55.00
199 190 405	108	1276.00
199 190 414	108	120.00
199 190 415	108	120.00
199 190 416	108	120.00
199 190 417	108	230.00
199 190 418	108	230.00
199 190 419	108	230.00
199 190 546	76	117.00
199 190 547	76	117.00
199 190 554	76	169.00
199 190 555	76	169.00
199 190 601	48	482.00
199 190 602	48	356.00
199 190 603	48	894.00
199 190 604	48	454.00
199 190 605	48	1148.00
199 190 610	48	482.00
199 190 611	48	454.00
199 231 002	72	467.00
199 231 006	72	576.00
199 231 007	72	640.00
199 231 008	72	680.00
199 231 012	72	500.00
199 231 016	72	592.00
199 231 017	72	659.00
199 231 018	72	735.00
199 231 042	72	504.00
199 231 046	72	620.00
199 231 047	72	659.00
199 231 048	72	704.00
199 231 052	72	520.00
199 231 056	72	649.00
199 231 057	72	683.00
199 231 058	72	755.00
199 231 082	72	490.00
199 231 086	72	598.00
199 231 087	72	640.00
199 231 088	72	680.00
199 231 092	72	501.00
199 231 096	72	624.00
199 231 097	72	659.00
199 231 098	72	735.00
199 231 122	72	403.00

Part Number Page List Price

199 231 126	72	509.00
199 231 127	72	550.00
199 231 128	72	591.00
199 231 129	72	1200.00
199 231 130	72	1418.00
199 231 131	72	1547.00
199 231 132	72	413.00
199 231 136	72	538.00
199 231 137	72	570.00
199 231 138	72	644.00
199 231 139	72	1303.00
199 231 140	72	1547.00
199 231 141	72	1710.00
199 231 162	72	421.00
199 231 166	72	531.00
199 231 167	72	570.00
199 231 168	72	614.00
199 231 169	72	1108.00
199 231 170	72	1303.00
199 231 171	72	1436.00
199 231 172	72	433.00
199 231 176	72	560.00
199 231 177	72	593.00
199 231 178	72	670.00
199 231 179	72	1303.00
199 231 180	72	1547.00
199 231 181	72	1710.00
199 231 202	72	405.00
199 231 206	72	509.00
199 231 207	72	550.00
199 231 208	72	591.00
199 231 209	72	1051.00
199 231 210	72	1188.00
199 231 211	72	1335.00
199 231 212	72	416.00
199 231 216	72	538.00
199 231 217	72	570.00
199 231 218	72	644.00
199 231 219	72	1158.00
199 231 220	72	1335.00
199 231 221	72	1499.00
199 231 623	72	537.00
199 231 624	72	554.00
199 231 625	72	575.00
199 231 626	73	635.00
199 231 627	73	704.00
199 231 628	73	748.00
199 231 633	72	553.00

Part Number Page List Price

199 231 634	72	571.00
199 231 635	72	596.00
199 231 636	73	650.00
199 231 637	73	725.00
199 231 638	73	809.00
199 231 643	72	558.00
199 231 644	72	573.00
199 231 645	72	600.00
199 231 646	73	683.00
199 231 647	73	725.00
199 231 648	73	774.00
199 231 653	72	572.00
199 231 654	72	593.00
199 231 655	72	614.00
199 231 656	73	714.00
199 231 657	73	751.00
199 231 658	73	829.00
199 231 663	72	538.00
199 231 664	72	556.00
199 231 665	72	576.00
199 231 666	73	658.00
199 231 667	73	704.00
199 231 668	73	748.00
199 231 673	72	554.00
199 231 674	72	572.00
199 231 675	72	598.00
199 231 676	73	686.00
199 231 677	73	725.00
199 231 678	73	809.00
199 231 833	72	445.00
199 231 834	72	454.00
199 231 835	72	480.00
199 231 836	73	562.00
199 231 837	73	604.00
199 231 838	73	649.00
199 231 839	73	1320.00
199 231 840	73	1560.00
199 231 841	73	1702.00
199 231 843	72	454.00
199 231 844	72	474.00
199 231 845	72	497.00
199 231 846	73	593.00
199 231 847	73	628.00
199 231 848	73	710.00
199 231 849	73	1435.00
199 231 850	73	1702.00
199 231 851	73	1883.00
199 231 853	72	465.00

Part Number Page List Price

199 231 854	72	478.00
199 231 855	72	499.00
199 231 856	73	584.00
199 231 857	73	628.00
199 231 858	73	676.00
199 231 859	73	1220.00
199 231 860	73	1435.00
199 231 861	73	1578.00
199 231 863	72	478.00
199 231 864	72	493.00
199 231 865	72	518.00
199 231 866	73	614.00
199 231 867	73	651.00
199 231 868	73	736.00
199 231 869	73	1435.00
199 231 870	73	1702.00
199 231 871	73	1883.00
199 231 873	72	448.00
199 231 874	72	460.00
199 231 875	72	482.00
199 231 876	73	562.00
199 231 877	73	604.00
199 231 878	73	649.00
199 231 879	73	1154.00
199 231 880	73	1309.00
199 231 881	73	1470.00
199 231 883	72	460.00
199 231 884	72	475.00
199 231 885	72	498.00
199 231 886	73	593.00
199 231 887	73	628.00
199 231 888	73	710.00
199 231 889	73	1273.00
199 231 890	73	1470.00
199 231 891	73	1648.00
199 232 012	74	637.00
199 232 013	74	648.00
199 232 014	74	697.00
199 232 015	74	776.00
199 232 016	74	921.00
199 232 017	74	1123.00
199 232 018	74	1364.00
199 232 052	74	652.00
199 232 053	74	670.00
199 232 054	74	717.00
199 232 055	74	793.00
199 232 056	74	946.00
199 232 057	74	1146.00

Part Number Page List Price

199 232 058	74	1390.00
199 232 092	74	638.00
199 232 093	74	649.00
199 232 094	74	698.00
199 232 095	74	778.00
199 232 096	74	921.00
199 232 097	74	1123.00
199 232 098	74	1364.00
199 232 132	74	541.00
199 232 133	74	553.00
199 232 134	74	603.00
199 232 135	74	683.00
199 232 136	74	827.00
199 232 137	74	1032.00
199 232 138	74	1271.00
199 232 139	74	3249.00
199 232 140	74	3900.00
199 232 141	74	4679.00
199 232 172	74	562.00
199 232 173	74	573.00
199 232 174	74	621.00
199 232 175	74	704.00
199 232 176	74	853.00
199 232 177	74	1052.00
199 232 178	74	1295.00
199 232 179	74	3249.00
199 232 180	74	3900.00
199 232 181	74	4679.00
199 232 212	74	542.00
199 232 213	74	554.00
199 232 214	74	604.00
199 232 215	74	685.00
199 232 216	74	827.00
199 232 217	74	1032.00
199 232 218	74	1271.00
199 232 219	74	2924.00
199 232 220	74	3510.00
199 232 221	74	4212.00
199 232 713	74	648.00
199 232 714	74	697.00
199 232 715	74	776.00
199 232 716	74	921.00
199 232 717	74	1123.00
199 232 718	74	1364.00
199 232 753	74	670.00
199 232 754	74	717.00
199 232 755	74	793.00
199 232 756	74	946.00

Part Number Page List Price

199 232 757	74	1146.00
199 232 758	74	1390.00
199 232 793	74	649.00
199 232 794	74	698.00
199 232 795	74	778.00
199 232 796	74	921.00
199 232 797	74	1123.00
199 232 798	74	1364.00
199 232 833	74	553.00
199 232 834	74	603.00
199 232 835	74	683.00
199 232 836	74	827.00
199 232 837	74	1032.00
199 232 838	74	1271.00
199 232 839	74	3249.00
199 232 840	74	3900.00
199 232 841	74	4679.00
199 232 873	74	573.00
199 232 874	74	621.00
199 232 875	74	704.00
199 232 876	74	853.00
199 232 877	74	1052.00
199 232 878	74	1295.00
199 232 879	74	3249.00
199 232 880	74	3900.00
199 232 881	74	4679.00
199 232 913	74	553.00
199 232 914	74	603.00
199 232 915	74	683.00
199 232 916	74	827.00
199 232 917	74	1032.00
199 232 918	74	1271.00
199 232 919	74	2924.00
199 232 920	74	3510.00
199 232 921	74	4212.00
199 233 002	68	527.00
199 233 003	68	530.00
199 233 004	68	538.00
199 233 005	68	548.00
199 233 006	68	619.00
199 233 007	68	626.00
199 233 008	68	660.00
199 233 012	68	538.00
199 233 013	68	539.00
199 233 014	68	546.00
199 233 015	68	560.00
199 233 016	68	630.00
199 233 017	68	654.00

Part Number Page List Price

199 233 018	68	688.00
199 233 022	68	527.00
199 233 023	68	530.00
199 233 024	68	538.00
199 233 025	68	548.00
199 233 026	68	619.00
199 233 027	68	626.00
199 233 028	68	660.00
199 233 032	68	538.00
199 233 033	68	539.00
199 233 034	68	546.00
199 233 035	68	560.00
199 233 036	68	630.00
199 233 037	68	654.00
199 233 038	68	688.00
199 233 042	68	501.00
199 233 043	68	502.00
199 233 044	68	509.00
199 233 045	68	520.00
199 233 046	68	576.00
199 233 047	68	589.00
199 233 048	68	620.00
199 233 052	68	509.00
199 233 053	68	509.00
199 233 054	68	520.00
199 233 055	68	531.00
199 233 056	68	591.00
199 233 057	68	614.00
199 233 058	68	649.00
199 233 062	68	404.00
199 233 063	1	405.00
199 233 064	68	413.00
199 233 065	1	420.00
199 233 066	68	493.00
199 233 067	1	501.00
199 233 068	1	538.00
199 233 069	68	848.00
199 233 070	68	995.00
199 233 071	68	1061.00
199 233 072	68	413.00
199 233 073	1	413.00
199 233 074	68	420.00
199 233 075	1	435.00
199 233 076	68	505.00
199 233 077	1	527.00
199 233 078	1	565.00
199 233 079	68	913.00
199 233 080	68	1073.00

Part Number Page List Price

199 233 081	68	1158.00
199 233 082	68	404.00
199 233 083	68	405.00
199 233 084	68	413.00
199 233 085	68	420.00
199 233 086	68	493.00
199 233 087	68	501.00
199 233 088	68	538.00
199 233 089	68	863.00
199 233 090	68	1015.00
199 233 091	68	1085.00
199 233 092	68	413.00
199 233 093	68	413.00
199 233 094	68	420.00
199 233 095	68	435.00
199 233 096	68	505.00
199 233 097	68	527.00
199 233 098	68	565.00
199 233 099	68	913.00
199 233 100	68	1073.00
199 233 101	68	1158.00
199 233 102	68	377.00
199 233 103	68	377.00
199 233 104	68	382.00
199 233 105	68	395.00
199 233 106	68	451.00
199 233 107	68	456.00
199 233 108	68	497.00
199 233 109	68	735.00
199 233 110	68	816.00
199 233 111	68	888.00
199 233 112	68	382.00
199 233 113	68	383.00
199 233 114	68	395.00
199 233 115	68	407.00
199 233 116	68	467.00
199 233 117	68	490.00
199 233 118	68	524.00
199 233 119	68	782.00
199 233 120	68	879.00
199 233 121	68	963.00
199 233 123	69	593.00
199 233 124	69	601.00
199 233 125	69	613.00
199 233 126	69	710.00
199 233 127	69	727.00
199 233 128	69	749.00
199 233 133	69	601.00

Part Number Page List Price

199 233 134	69	613.00
199 233 135	69	623.00
199 233 136	69	720.00
199 233 137	69	743.00
199 233 138	69	763.00
199 233 143	69	593.00
199 233 144	69	601.00
199 233 145	69	613.00
199 233 146	69	710.00
199 233 147	69	727.00
199 233 148	69	749.00
199 233 153	69	601.00
199 233 154	69	613.00
199 233 155	69	623.00
199 233 156	69	720.00
199 233 157	69	743.00
199 233 158	69	763.00
199 233 163	69	566.00
199 233 164	69	574.00
199 233 165	69	585.00
199 233 166	69	670.00
199 233 167	69	687.00
199 233 168	69	710.00
199 233 173	69	573.00
199 233 174	69	585.00
199 233 175	69	596.00
199 233 176	69	681.00
199 233 177	69	704.00
199 233 178	69	720.00
199 233 302	70	554.00
199 233 303	70	555.00
199 233 304	70	565.00
199 233 305	70	584.00
199 233 306	70	660.00
199 233 307	70	685.00
199 233 308	70	717.00
199 233 312	70	558.00
199 233 313	70	561.00
199 233 314	70	574.00
199 233 315	70	596.00
199 233 316	70	681.00
199 233 317	70	710.00
199 233 318	70	761.00
199 233 322	70	554.00
199 233 323	70	555.00
199 233 324	70	565.00
199 233 325	70	584.00
199 233 326	70	660.00

Part Number Page List Price

199 233 327	70	685.00
199 233 328	70	717.00
199 233 332	70	558.00
199 233 333	70	561.00
199 233 334	70	574.00
199 233 335	70	596.00
199 233 336	70	681.00
199 233 337	70	710.00
199 233 338	70	761.00
199 233 342	70	525.00
199 233 343	70	526.00
199 233 344	70	538.00
199 233 345	70	554.00
199 233 346	70	620.00
199 233 347	70	642.00
199 233 348	70	677.00
199 233 352	70	530.00
199 233 353	70	531.00
199 233 354	70	548.00
199 233 355	70	569.00
199 233 356	70	641.00
199 233 357	70	670.00
199 233 358	70	718.00
199 233 362	70	430.00
199 233 363	1	431.00
199 233 364	70	441.00
199 233 365	1	454.00
199 233 366	70	538.00
199 233 367	1	558.00
199 233 368	1	592.00
199 233 369	70	1158.00
199 233 370	70	1367.00
199 233 371	70	1489.00
199 233 372	70	433.00
199 233 373	1	435.00
199 233 374	70	450.00
199 233 375	1	472.00
199 233 376	70	556.00
199 233 377	1	585.00
199 233 378	1	639.00
199 233 379	70	1093.00
199 233 380	70	1303.00
199 233 381	70	1436.00
199 233 382	70	430.00
199 233 383	70	431.00
199 233 384	70	441.00
199 233 385	70	454.00
199 233 386	70	538.00

Part Number Page List Price

199 233 387	70	558.00
199 233 388	70	592.00
199 233 389	70	1035.00
199 233 390	70	1221.00
199 233 391	70	1335.00
199 233 392	70	433.00
199 233 393	70	435.00
199 233 394	70	450.00
199 233 395	70	472.00
199 233 396	70	556.00
199 233 397	70	585.00
199 233 398	70	639.00
199 233 399	70	1042.00
199 233 400	70	1239.00
199 233 401	70	1355.00
199 233 402	70	401.00
199 233 403	70	402.00
199 233 404	70	413.00
199 233 405	70	430.00
199 233 406	70	494.00
199 233 407	70	519.00
199 233 408	70	553.00
199 233 409	70	896.00
199 233 410	70	1027.00
199 233 411	70	1141.00
199 233 412	70	405.00
199 233 413	70	407.00
199 233 414	70	421.00
199 233 415	70	446.00
199 233 416	70	516.00
199 233 417	70	540.00
199 233 418	70	594.00
199 233 419	70	963.00
199 233 420	70	1108.00
199 233 421	70	1221.00
199 233 443	71	641.00
199 233 444	71	653.00
199 233 445	71	654.00
199 233 446	71	811.00
199 233 447	71	833.00
199 233 448	71	854.00
199 233 453	71	648.00
199 233 454	71	662.00
199 233 455	71	672.00
199 233 456	71	832.00
199 233 457	71	851.00
199 233 458	71	875.00
199 233 463	71	641.00

Part Number Page List Price

199 233 464	71	653.00
199 233 465	71	654.00
199 233 466	71	811.00
199 233 467	71	833.00
199 233 468	71	854.00
199 233 473	71	648.00
199 233 474	71	662.00
199 233 475	71	672.00
199 233 476	71	832.00
199 233 477	71	851.00
199 233 478	71	875.00
199 233 483	71	614.00
199 233 484	71	624.00
199 233 485	71	626.00
199 233 486	71	773.00
199 233 487	71	791.00
199 233 488	71	811.00
199 233 493	71	619.00
199 233 494	71	638.00
199 233 495	71	643.00
199 233 496	71	789.00
199 233 497	71	810.00
199 233 498	71	832.00
199 233 723	69	469.00
199 233 724	69	476.00
199 233 725	69	486.00
199 233 726	69	585.00
199 233 727	69	604.00
199 233 728	69	623.00
199 233 729	69	1067.00
199 233 730	69	1239.00
199 233 731	69	1328.00
199 233 733	69	475.00
199 233 734	69	486.00
199 233 735	69	500.00
199 233 736	69	594.00
199 233 737	69	617.00
199 233 738	69	639.00
199 233 739	69	1124.00
199 233 740	69	1303.00
199 233 741	69	1418.00
199 233 743	69	469.00
199 233 744	69	476.00
199 233 745	69	486.00
199 233 746	69	585.00
199 233 747	69	604.00
199 233 748	69	623.00
199 233 749	69	1067.00

Part Number Page List Price

199 233 750	69	1239.00
199 233 751	69	1328.00
199 233 753	69	475.00
199 233 754	69	486.00
199 233 755	69	500.00
199 233 756	69	594.00
199 233 757	69	617.00
199 233 758	69	639.00
199 233 759	69	1124.00
199 233 760	69	1303.00
199 233 761	69	1418.00
199 233 763	69	441.00
199 233 764	69	448.00
199 233 765	69	455.00
199 233 766	69	540.00
199 233 767	69	561.00
199 233 768	69	584.00
199 233 769	69	920.00
199 233 770	69	1015.00
199 233 771	69	1108.00
199 233 773	69	448.00
199 233 774	69	455.00
199 233 775	69	470.00
199 233 776	69	555.00
199 233 777	69	574.00
199 233 778	69	594.00
199 233 779	69	976.00
199 233 780	69	1085.00
199 233 781	69	1188.00
199 233 803	71	516.00
199 233 804	71	527.00
199 233 805	71	530.00
199 233 806	71	687.00
199 233 807	71	710.00
199 233 808	71	727.00
199 233 809	71	1254.00
199 233 810	71	1468.00
199 233 811	71	1595.00
199 233 813	71	523.00
199 233 814	71	539.00
199 233 815	71	546.00
199 233 816	71	708.00
199 233 817	71	726.00
199 233 818	71	748.00
199 233 819	71	1254.00
199 233 820	71	1484.00
199 233 821	71	1630.00
199 233 823	71	516.00

Part Number Page List Price

199 233 824	71	527.00
199 233 825	71	530.00
199 233 826	71	687.00
199 233 827	71	710.00
199 233 828	71	727.00
199 233 829	71	1254.00
199 233 830	71	1468.00
199 233 831	71	1595.00
199 233 833	71	523.00
199 233 834	71	539.00
199 233 835	71	546.00
199 233 836	71	708.00
199 233 837	71	726.00
199 233 838	71	748.00
199 233 839	71	1303.00
199 233 840	71	1547.00
199 233 841	71	1678.00
199 233 843	71	490.00
199 233 844	71	500.00
199 233 845	71	501.00
199 233 846	71	648.00
199 233 847	71	670.00
199 233 848	71	687.00
199 233 849	71	1108.00
199 233 850	71	1239.00
199 233 851	71	1376.00
199 233 853	71	493.00
199 233 854	71	509.00
199 233 855	71	520.00
199 233 856	71	664.00
199 233 857	71	686.00
199 233 858	71	708.00
199 233 859	71	1158.00
199 233 860	71	1303.00
199 233 861	71	1468.00
199 240 002	85	675.00
199 240 003	85	773.00
199 240 004	2	773.00
199 240 005	2	788.00
199 240 006	85	1208.00
199 240 007	2	1208.00
199 240 008	2	1508.00
199 240 009	85	4080.00
199 240 010	85	4810.00
199 240 022	85	765.00
199 240 023	85	859.00
199 240 024	2	859.00
199 240 025	2	885.00

Part Number Page List Price

199 240 026	85	1334.00
199 240 027	2	1334.00
199 240 028	2	1578.00
199 240 029	85	4577.00
199 240 030	85	5715.00
199 240 042	85	675.00
199 240 043	85	773.00
199 240 044	85	773.00
199 240 045	85	788.00
199 240 046	85	1208.00
199 240 047	85	1208.00
199 240 048	2	1508.00
199 240 049	85	4080.00
199 240 050	85	4810.00
199 240 062	85	765.00
199 240 063	85	859.00
199 240 064	85	859.00
199 240 065	85	885.00
199 240 066	85	1334.00
199 240 067	85	1334.00
199 240 068	85	1578.00
199 240 069	85	4577.00
199 240 070	85	5715.00
199 240 082	85	563.00
199 240 083	85	599.00
199 240 084	85	599.00
199 240 085	85	621.00
199 240 086	85	845.00
199 240 087	85	845.00
199 240 088	85	1022.00
199 240 089	85	3002.00
199 240 090	85	3514.00
199 240 102	85	653.00
199 240 103	85	688.00
199 240 104	85	688.00
199 240 105	85	717.00
199 240 106	85	970.00
199 240 107	85	970.00
199 240 108	85	1094.00
199 240 109	85	3498.00
199 240 110	85	4423.00
199 240 162	85	825.00
199 240 163	85	1022.00
199 240 164	85	1022.00
199 240 165	85	1094.00
199 240 166	85	1642.00
199 240 167	85	1642.00
199 240 168	85	1980.00

Part Number Page List Price

199 240 182	85	877.00
199 240 183	85	1094.00
199 240 184	85	1094.00
199 240 185	85	1171.00
199 240 186	85	1734.00
199 240 187	85	1734.00
199 240 188	85	2095.00
199 240 202	85	825.00
199 240 203	85	1022.00
199 240 204	85	1022.00
199 240 205	85	1094.00
199 240 206	85	1642.00
199 240 207	85	1642.00
199 240 208	85	1980.00
199 240 222	85	877.00
199 240 223	85	1094.00
199 240 224	85	1094.00
199 240 225	85	1171.00
199 240 226	85	1734.00
199 240 227	85	1734.00
199 240 228	85	2095.00
199 240 242	85	715.00
199 240 243	85	850.00
199 240 244	85	850.00
199 240 245	85	924.00
199 240 246	85	1279.00
199 240 247	85	1279.00
199 240 248	85	1490.00
199 240 262	85	763.00
199 240 263	85	919.00
199 240 264	85	919.00
199 240 265	85	1001.00
199 240 266	85	1369.00
199 240 267	85	1369.00
199 240 268	85	1608.00
199 240 282	86	765.00
199 240 283	86	837.00
199 240 284	86	837.00
199 240 285	86	897.00
199 240 286	86	1296.00
199 240 287	86	1296.00
199 240 288	86	1542.00
199 240 289	86	3841.00
199 240 290	86	4861.00
199 240 302	86	811.00
199 240 303	86	921.00
199 240 304	86	921.00
199 240 305	86	1001.00

Part Number Page List Price

199 240 306	86	1501.00
199 240 307	86	1501.00
199 240 308	86	1714.00
199 240 309	86	4234.00
199 240 310	86	5371.00
199 240 322	86	726.00
199 240 323	86	837.00
199 240 324	86	837.00
199 240 325	86	897.00
199 240 326	86	1296.00
199 240 327	86	1296.00
199 240 328	86	1542.00
199 240 329	86	4196.00
199 240 330	86	4764.00
199 240 342	86	811.00
199 240 343	86	921.00
199 240 344	86	921.00
199 240 345	86	1001.00
199 240 346	86	1501.00
199 240 347	86	1501.00
199 240 348	86	1714.00
199 240 349	86	4580.00
199 240 350	86	5275.00
199 240 362	86	598.00
199 240 363	86	725.00
199 240 364	86	725.00
199 240 365	86	792.00
199 240 366	86	1090.00
199 240 367	86	1090.00
199 240 368	86	1240.00
199 240 369	86	2985.00
199 240 370	86	3730.00
199 240 382	86	727.00
199 240 383	86	810.00
199 240 384	86	810.00
199 240 385	86	899.00
199 240 386	86	1294.00
199 240 387	86	1294.00
199 240 388	86	1414.00
199 240 389	86	3383.00
199 240 390	86	4241.00
199 240 462	86	1200.00
199 240 463	86	1618.00
199 240 464	86	1618.00
199 240 465	86	1802.00
199 240 466	86	2814.00
199 240 467	86	2814.00
199 240 468	86	3521.00

Part Number Page List Price

199 240 469	86	6245.00
199 240 470	86	7914.00
199 240 482	86	1200.00
199 240 483	86	1618.00
199 240 484	86	1618.00
199 240 485	86	1802.00
199 240 486	86	2814.00
199 240 487	86	2814.00
199 240 488	86	3521.00
199 240 489	86	6624.00
199 240 490	86	7820.00
199 240 502	86	1086.00
199 240 503	86	1438.00
199 240 504	86	1438.00
199 240 505	86	1631.00
199 240 506	86	2433.00
199 240 507	86	2433.00
199 240 508	86	3013.00
199 240 509	86	5352.00
199 240 510	86	6742.00
199 240 522	86	1796.00
199 240 523	86	2287.00
199 240 524	86	2287.00
199 240 525	86	2918.00
199 240 526	86	4173.00
199 240 527	86	4173.00
199 240 528	86	6413.00
199 240 529	86	7807.00
199 240 530	86	9891.00
199 240 542	86	1796.00
199 240 543	86	2287.00
199 240 544	86	2287.00
199 240 545	86	2918.00
199 240 546	86	4173.00
199 240 547	86	4173.00
199 240 548	86	6413.00
199 240 549	86	8281.00
199 240 550	86	9776.00
199 240 562	86	1488.00
199 240 563	86	1716.00
199 240 564	86	1716.00
199 240 565	86	2165.00
199 240 566	86	3306.00
199 240 567	86	3306.00
199 240 568	86	4627.00
199 240 569	86	6689.00
199 240 570	86	8427.00
199 244 002	87	1124.00

Part Number Page List Price

199 244 003	87	1218.00
199 244 004	2	1218.00
199 244 005	2	1703.00
199 244 006	87	2361.00
199 244 007	2	2361.00
199 244 008	2	3009.00
199 244 009	87	5065.00
199 244 010	87	5908.00
199 244 022	87	1200.00
199 244 023	87	1299.00
199 244 024	2	1299.00
199 244 025	2	1835.00
199 244 026	87	2571.00
199 244 027	2	2571.00
199 244 028	2	3283.00
199 244 029	87	5093.00
199 244 030	87	6421.00
199 244 042	87	1124.00
199 244 043	87	1218.00
199 244 044	87	1218.00
199 244 045	87	1703.00
199 244 046	87	2361.00
199 244 047	87	2361.00
199 244 048	87	3009.00
199 244 049	87	5506.00
199 244 050	87	5755.00
199 244 062	87	1200.00
199 244 063	87	1299.00
199 244 064	87	1299.00
199 244 065	87	1835.00
199 244 066	87	2571.00
199 244 067	87	2571.00
199 244 068	87	3283.00
199 244 069	87	5529.00
199 244 070	87	6303.00
199 244 082	87	1010.00
199 244 083	87	1044.00
199 244 084	87	1044.00
199 244 085	87	1536.00
199 244 086	87	1997.00
199 244 087	87	1997.00
199 244 088	87	2522.00
199 244 089	87	3986.00
199 244 090	87	4458.00
199 244 102	87	1089.00
199 244 103	87	1128.00
199 244 104	87	1128.00
199 244 105	87	1667.00

Part Number Page List Price

199 244 106	87	2207.00
199 244 107	87	2207.00
199 244 108	87	2799.00
199 244 109	87	4015.00
199 244 110	87	5011.00
199 244 162	87	1351.00
199 244 163	87	1481.00
199 244 164	87	1481.00
199 244 165	87	2161.00
199 244 166	87	2991.00
199 244 167	87	2991.00
199 244 168	87	3853.00
199 244 169	87	8345.00
199 244 170	87	9924.00
199 244 182	87	1467.00
199 244 183	87	1555.00
199 244 184	87	1555.00
199 244 185	87	2382.00
199 244 186	87	3301.00
199 244 187	87	3301.00
199 244 188	87	4280.00
199 244 189	87	9268.00
199 244 190	87	10374.00
199 244 202	87	1240.00
199 244 203	87	1309.00
199 244 204	87	1309.00
199 244 205	87	1991.00
199 244 206	87	2628.00
199 244 207	87	2628.00
199 244 208	87	3366.00
199 244 209	87	7286.00
199 244 210	87	8665.00
199 244 222	87	1354.00
199 244 223	87	1406.00
199 244 224	87	1406.00
199 244 225	87	2211.00
199 244 226	87	2936.00
199 244 227	87	2936.00
199 244 228	87	3793.00
199 244 229	87	8215.00
199 244 230	87	9194.00
199 244 242	87	1351.00
199 244 243	87	1481.00
199 244 244	87	1481.00
199 244 245	87	2161.00
199 244 246	87	2991.00
199 244 247	87	2991.00
199 244 248	87	3853.00

Part Number Page List Price

199 244 249	87	8345.00
199 244 250	87	9924.00
199 244 262	87	1467.00
199 244 263	87	1555.00
199 244 264	87	1555.00
199 244 265	87	2382.00
199 244 266	87	3301.00
199 244 267	87	3301.00
199 244 268	87	4280.00
199 244 269	87	9268.00
199 244 270	87	10374.00
199 244 282	88	1454.00
199 244 283	88	1748.00
199 244 284	88	1748.00
199 244 285	88	2094.00
199 244 286	88	3077.00
199 244 287	88	3077.00
199 244 288	88	3841.00
199 244 289	88	5350.00
199 244 290	88	6879.00
199 244 302	88	1486.00
199 244 303	88	1841.00
199 244 304	88	1841.00
199 244 305	88	2165.00
199 244 306	88	3796.00
199 244 307	88	3796.00
199 244 308	88	4153.00
199 244 309	88	6315.00
199 244 310	88	8256.00
199 244 322	88	1416.00
199 244 323	88	1748.00
199 244 324	88	1748.00
199 244 325	88	2094.00
199 244 326	88	3077.00
199 244 327	88	3077.00
199 244 328	88	3841.00
199 244 329	88	5705.00
199 244 330	88	6781.00
199 244 342	88	1486.00
199 244 343	88	1841.00
199 244 344	88	1841.00
199 244 345	88	2165.00
199 244 346	88	3796.00
199 244 347	88	3796.00
199 244 348	88	4153.00
199 244 349	88	6659.00
199 244 350	88	8162.00
199 244 362	88	1288.00

Part Number Page List Price

199 244 363	88	1637.00
199 244 364	88	1637.00
199 244 365	88	1988.00
199 244 366	88	2869.00
199 244 367	88	2869.00
199 244 368	88	3539.00
199 244 369	88	4493.00
199 244 370	88	5747.00
199 244 382	88	1401.00
199 244 383	88	1731.00
199 244 384	88	1731.00
199 244 385	88	2063.00
199 244 386	88	3590.00
199 244 387	88	3590.00
199 244 388	88	3851.00
199 244 389	88	5464.00
199 244 390	88	7127.00
199 244 462	88	1650.00
199 244 463	88	1994.00
199 244 464	88	1994.00
199 244 465	88	2278.00
199 244 466	88	3893.00
199 244 467	88	3893.00
199 244 468	88	4370.00
199 244 469	88	7085.00
199 244 470	88	9354.00
199 244 482	88	1650.00
199 244 483	88	1994.00
199 244 484	88	1994.00
199 244 485	88	2278.00
199 244 486	88	3893.00
199 244 487	88	3893.00
199 244 488	88	4370.00
199 244 489	88	7464.00
199 244 490	88	9262.00
199 244 502	88	1537.00
199 244 503	88	1872.00
199 244 504	88	1934.00
199 244 505	88	2107.00
199 244 506	88	3512.00
199 244 507	88	3512.00
199 244 508	88	3861.00
199 244 509	88	6190.00
199 244 510	88	8183.00
199 244 522	88	2423.00
199 244 523	88	2749.00
199 244 524	88	2749.00
199 244 525	88	4000.00

Part Number Page List Price

199 244 526	88	6338.00
199 244 527	88	6338.00
199 244 528	88	11009.00
199 244 529	88	11266.00
199 244 530	88	14417.00
199 244 542	88	2423.00
199 244 543	88	2749.00
199 244 544	88	2749.00
199 244 545	88	4000.00
199 244 546	88	6338.00
199 244 547	88	6338.00
199 244 548	88	11009.00
199 244 549	88	11266.00
199 244 550	88	14417.00
199 244 562	88	2117.00
199 244 563	88	2439.00
199 244 564	88	2439.00
199 244 565	88	3247.00
199 244 566	88	5471.00
199 244 567	88	5471.00
199 244 568	88	9224.00
199 244 569	88	9438.00
199 244 570	88	12077.00
199 285 382	79	558.00
199 285 383	79	560.00
199 285 384	79	579.00
199 285 385	79	601.00
199 285 386	79	673.00
199 285 387	79	749.00
199 285 388	79	792.00
199 285 392	79	569.00
199 285 393	79	570.00
199 285 394	79	589.00
199 285 395	79	618.00
199 285 396	79	687.00
199 285 397	79	773.00
199 285 398	79	832.00
199 285 422	79	558.00
199 285 423	79	560.00
199 285 424	79	579.00
199 285 425	79	601.00
199 285 426	79	673.00
199 285 427	79	749.00
199 285 428	79	792.00
199 285 432	79	569.00
199 285 433	79	570.00
199 285 434	79	589.00
199 285 435	79	618.00

Part Number Page List Price

199 285 436	79	687.00
199 285 437	79	773.00
199 285 438	79	832.00
199 285 462	79	592.00
199 285 463	79	592.00
199 285 464	79	623.00
199 285 465	79	691.00
199 285 466	79	767.00
199 285 467	79	854.00
199 285 468	79	958.00
199 285 472	79	609.00
199 285 473	79	609.00
199 285 474	79	638.00
199 285 475	79	691.00
199 285 476	79	788.00
199 285 477	79	896.00
199 285 478	79	1033.00
199 285 502	79	592.00
199 285 503	79	592.00
199 285 504	79	623.00
199 285 505	79	691.00
199 285 506	79	767.00
199 285 507	79	854.00
199 285 508	79	958.00
199 285 512	79	609.00
199 285 513	79	609.00
199 285 514	79	638.00
199 285 515	79	691.00
199 285 516	79	788.00
199 285 517	79	896.00
199 285 518	79	1033.00
199 285 542	79	558.00
199 285 543	79	560.00
199 285 544	79	579.00
199 285 545	79	601.00
199 285 546	79	673.00
199 285 547	79	749.00
199 285 548	79	792.00
199 285 552	79	569.00
199 285 553	79	570.00
199 285 554	79	589.00
199 285 555	79	618.00
199 285 556	79	687.00
199 285 557	79	773.00
199 285 558	79	832.00
199 285 582	79	558.00
199 285 583	79	560.00
199 285 584	79	579.00

Part Number Page List Price

199 285 585	79	601.00
199 285 586	79	673.00
199 285 587	79	749.00
199 285 588	79	792.00
199 285 592	79	569.00
199 285 593	79	570.00
199 285 594	79	589.00
199 285 595	79	618.00
199 285 596	79	687.00
199 285 597	79	773.00
199 285 598	79	832.00
199 285 942	79	592.00
199 285 943	79	592.00
199 285 944	79	623.00
199 285 945	79	691.00
199 285 946	79	767.00
199 285 947	79	854.00
199 285 948	79	958.00
199 285 952	79	609.00
199 285 953	79	609.00
199 285 954	79	638.00
199 285 955	79	691.00
199 285 956	79	788.00
199 285 957	79	896.00
199 285 958	79	1033.00
199 285 982	79	592.00
199 285 983	79	592.00
199 285 984	79	623.00
199 285 985	79	691.00
199 285 986	79	767.00
199 285 987	79	854.00
199 285 988	79	958.00
199 285 992	79	609.00
199 285 993	79	609.00
199 285 994	79	638.00
199 285 995	79	691.00
199 285 996	79	788.00
199 285 997	79	896.00
199 285 998	79	1033.00
199 286 022	80	599.00
199 286 023	80	599.00
199 286 024	80	638.00
199 286 025	80	685.00
199 286 026	80	801.00
199 286 027	80	900.00
199 286 028	80	1013.00
199 286 032	80	633.00
199 286 033	80	633.00

Part Number Page List Price

199 286 034	80	654.00
199 286 035	80	725.00
199 286 036	80	833.00
199 286 037	80	948.00
199 286 038	80	1090.00
199 286 062	80	599.00
199 286 063	80	599.00
199 286 064	80	638.00
199 286 065	80	685.00
199 286 066	80	801.00
199 286 067	80	900.00
199 286 068	80	1013.00
199 286 072	80	633.00
199 286 073	80	633.00
199 286 074	80	654.00
199 286 075	80	710.00
199 286 076	80	833.00
199 286 077	80	948.00
199 286 078	80	1090.00
199 286 083	80	607.00
199 286 084	80	638.00
199 286 085	80	687.00
199 286 086	80	801.00
199 286 087	80	900.00
199 286 088	80	1013.00
199 286 093	80	640.00
199 286 094	80	671.00
199 286 095	80	739.00
199 286 096	80	833.00
199 286 097	80	948.00
199 286 098	80	1090.00
199 286 103	80	599.00
199 286 104	80	638.00
199 286 105	80	685.00
199 286 106	80	801.00
199 286 107	80	900.00
199 286 108	80	1013.00
199 286 113	80	633.00
199 286 114	80	654.00
199 286 115	80	710.00
199 286 116	80	833.00
199 286 117	80	948.00
199 286 118	80	1090.00
199 286 182	80	599.00
199 286 183	80	599.00
199 286 184	80	638.00
199 286 185	80	685.00
199 286 186	80	801.00

Part Number Page List Price

199 286 187	80	900.00
199 286 188	80	1013.00
199 286 192	80	633.00
199 286 193	80	633.00
199 286 194	80	654.00
199 286 195	80	710.00
199 286 196	80	833.00
199 286 197	80	948.00
199 286 198	80	1090.00
199 286 222	80	599.00
199 286 223	80	599.00
199 286 224	80	638.00
199 286 225	80	685.00
199 286 226	80	801.00
199 286 227	80	900.00
199 286 228	80	1013.00
199 286 232	80	633.00
199 286 233	80	633.00
199 286 234	80	654.00
199 286 235	80	710.00
199 286 236	80	833.00
199 286 237	80	948.00
199 286 238	80	1090.00
199 286 243	80	599.00
199 286 244	80	638.00
199 286 245	80	685.00
199 286 246	80	801.00
199 286 247	80	900.00
199 286 248	80	1013.00
199 286 253	80	633.00
199 286 254	80	654.00
199 286 255	80	718.00
199 286 256	80	833.00
199 286 257	80	948.00
199 286 258	80	1090.00
199 286 263	80	599.00
199 286 264	80	638.00
199 286 265	80	685.00
199 286 266	80	827.00
199 286 267	80	900.00
199 286 268	80	1013.00
199 286 273	80	633.00
199 286 274	80	654.00
199 286 275	80	710.00
199 286 276	80	833.00
199 286 277	80	948.00
199 286 278	80	1090.00
199 287 053	81	825.00

Part Number Page List Price

199 287 054	81	933.00
199 287 055	81	1083.00
199 287 056	81	1322.00
199 287 057	81	1556.00
199 287 058	81	1981.00
199 287 073	81	865.00
199 287 074	81	978.00
199 287 075	81	1136.00
199 287 076	81	1388.00
199 287 077	81	1633.00
199 287 078	81	2080.00
199 287 092	81	825.00
199 287 093	81	825.00
199 287 094	81	933.00
199 287 095	81	1083.00
199 287 096	81	1322.00
199 287 097	81	1556.00
199 287 098	81	1981.00
199 287 112	81	865.00
199 287 113	81	865.00
199 287 114	81	978.00
199 287 115	81	1136.00
199 287 116	81	1388.00
199 287 117	81	1633.00
199 287 118	81	2080.00
199 287 173	81	865.00
199 287 174	81	978.00
199 287 175	81	1136.00
199 287 176	81	1388.00
199 287 177	81	1633.00
199 287 178	81	2080.00
199 287 193	81	865.00
199 287 194	81	978.00
199 287 195	81	1136.00
199 287 196	81	1388.00
199 287 197	81	1633.00
199 287 198	81	2080.00
199 287 212	81	865.00
199 287 213	81	865.00
199 287 214	81	978.00
199 287 215	81	1136.00
199 287 216	81	1388.00
199 287 217	81	1633.00
199 287 218	81	2080.00
199 287 232	81	865.00
199 287 233	81	865.00
199 287 234	81	978.00
199 287 235	81	1136.00

Part Number Page List Price

199 287 236	81	1388.00
199 287 237	81	1633.00
199 287 238	81	2080.00
199 288 492	78	698.00
199 288 493	78	700.00
199 288 494	78	719.00
199 288 495	78	742.00
199 288 496	78	814.00
199 288 497	78	889.00
199 288 498	78	933.00
199 288 502	78	710.00
199 288 503	78	711.00
199 288 504	78	728.00
199 288 505	78	758.00
199 288 506	78	827.00
199 288 507	78	913.00
199 288 508	78	973.00
199 288 512	78	698.00
199 288 513	78	700.00
199 288 514	78	719.00
199 288 515	78	742.00
199 288 516	78	814.00
199 288 517	78	889.00
199 288 518	78	933.00
199 288 522	78	710.00
199 288 523	78	711.00
199 288 524	78	728.00
199 288 525	78	758.00
199 288 526	78	827.00
199 288 527	78	913.00
199 288 528	78	973.00
199 288 532	78	698.00
199 288 533	78	700.00
199 288 534	78	719.00
199 288 535	78	742.00
199 288 536	78	814.00
199 288 537	78	889.00
199 288 538	78	933.00
199 288 542	78	710.00
199 288 543	78	711.00
199 288 544	78	728.00
199 288 545	78	758.00
199 288 546	78	827.00
199 288 547	78	913.00
199 288 548	78	973.00
199 288 552	78	558.00
199 288 553	78	560.00
199 288 554	78	579.00

Part Number Page List Price

199 288 555	78	601.00
199 288 556	78	673.00
199 288 557	78	749.00
199 288 558	78	792.00
199 288 562	78	569.00
199 288 563	78	570.00
199 288 564	78	589.00
199 288 565	78	618.00
199 288 566	78	687.00
199 288 567	78	773.00
199 288 568	78	832.00
199 288 572	78	558.00
199 288 573	78	560.00
199 288 574	78	579.00
199 288 575	78	601.00
199 288 576	78	673.00
199 288 577	78	749.00
199 288 578	78	792.00
199 288 582	78	569.00
199 288 583	78	570.00
199 288 584	78	589.00
199 288 585	78	618.00
199 288 586	78	687.00
199 288 587	78	773.00
199 288 588	78	832.00
199 288 592	78	558.00
199 288 593	78	560.00
199 288 594	78	579.00
199 288 595	78	601.00
199 288 596	78	673.00
199 288 597	78	749.00
199 288 598	78	792.00
199 288 602	78	569.00
199 288 603	78	570.00
199 288 604	78	589.00
199 288 605	78	618.00
199 288 606	78	687.00
199 288 607	78	773.00
199 288 608	78	832.00
199 335 685	120	23.00
199 335 686	120	23.00
199 335 687	120	23.00
199 335 688	120	23.00
199 335 689	120	23.00
199 335 690	120	23.00
199 335 691	120	23.00
199 335 692	120	23.00
199 335 693	120	23.00

Part Number Page List Price

199 335 694	120	23.00
199 335 695	120	23.00
199 335 696	120	23.00
199 335 697	120	23.00
199 335 800	121	201.00
199 335 801	121	201.00
199 335 802	121	232.00
199 335 803	121	232.00
199 335 804	121	275.00
199 335 805	121	275.00
199 335 806	121	275.00
199 335 807	121	436.00
199 335 808	121	436.00
199 335 809	121	436.00
199 335 810	121	545.00
199 335 811	121	545.00
199 335 812	121	545.00
199 335 820	121	183.00
199 335 821	121	186.00
199 335 822	121	210.00
199 335 823	121	210.00
199 335 824	121	252.00
199 335 825	121	252.00
199 335 826	121	252.00
199 335 827	121	397.00
199 335 828	121	397.00
199 335 829	121	397.00
199 335 830	121	480.00
199 335 831	121	480.00
199 335 840	121	201.00
199 335 841	121	201.00
199 335 842	121	232.00
199 335 843	121	232.00
199 335 844	121	275.00
199 335 845	121	275.00
199 335 846	121	275.00
199 335 847	121	436.00
199 335 848	121	436.00
199 335 849	121	436.00
199 335 850	121	545.00
199 335 851	121	545.00
199 335 861	120	23.00
199 335 862	120	23.00
199 335 863	120	23.00
199 335 864	120	23.00
199 335 865	120	23.00
199 335 866	120	23.00
199 335 867	120	23.00

Part Number Page List Price

199 335 868	120	24.00
199 335 869	120	23.00
199 335 870	120	23.00
199 335 871	120	23.00
199 335 872	120	23.00
199 335 873	120	23.00
199 335 900	121	283.00
199 335 901	121	283.00
199 335 902	121	336.00
199 335 903	121	336.00
199 335 904	121	412.00
199 335 905	121	412.00
199 335 906	121	412.00
199 335 907	121	713.00
199 335 908	121	713.00
199 335 909	121	713.00
199 335 910	121	850.00
199 335 911	121	850.00
199 335 912	121	850.00
199 335 920	121	264.00
199 335 921	121	264.00
199 335 922	121	309.00
199 335 923	121	309.00
199 335 924	121	376.00
199 335 925	121	376.00
199 335 926	121	376.00
199 335 927	121	596.00
199 335 928	121	596.00
199 335 929	121	596.00
199 335 930	121	697.00
199 335 931	121	863.00
199 335 940	121	283.00
199 335 941	121	283.00
199 335 942	121	336.00
199 335 943	121	336.00
199 335 944	121	412.00
199 335 945	121	412.00
199 335 946	121	412.00
199 335 947	121	713.00
199 335 948	121	713.00
199 335 949	121	713.00
199 335 950	121	850.00
199 335 951	121	850.00
700 259 430	123	33.00
721 500 105	123	3.00
721 500 106	123	3.00
721 500 108	123	4.00
721 500 109	123	4.00

Part Number Page List Price

721 500 110	123	6.00
721 500 111	123	8.00
721 602 005	123	2.00
721 602 006	42	3.00
721 602 007	42	3.00
721 602 008	42	3.00
721 602 009	42	5.00
721 602 010	42	5.00
721 602 011	42	8.00
721 602 656	42	5.00
721 602 657	42	6.00
721 602 658	42	8.00
721 602 659	42	26.00
721 602 660	42	22.00
721 602 661	42	22.00
721 890 005	122	2.00
721 890 006	42	3.00
721 890 007	42	4.00
721 890 008	42	5.00
721 890 009	42	6.00
721 890 010	42	8.00
721 890 011	42	11.00
723 602 006	123	3.00
723 602 007	42	3.00
723 602 008	123	4.00
723 602 009	123	4.00
723 602 010	123	9.00
723 602 011	123	13.00
723 690 006	42	5.00
723 690 007	42	6.00
723 690 008	42	8.00
723 690 009	42	9.00
723 690 010	42	13.00
723 690 011	42	18.00
727 500 105	123	3.00
727 500 106	42	4.00
727 500 107	42	4.00
727 500 108	42	5.00
727 500 109	42	6.00
727 500 110	42	7.00
727 500 111	42	8.00
727 508 506	123	8.00
727 508 507	42	12.00
727 508 508	123	12.00
727 508 509	123	24.00
727 508 510	123	24.00
727 508 511	123	26.00
727 890 405	122	18.00

Part Number Page List Price

727 890 406	42	21.00
727 890 407	42	20.00
727 890 408	42	25.00
727 890 409	42	31.00
727 890 410	42	50.00
727 890 411	42	78.00
728 608 506	123	12.00
728 608 507	42	17.00
728 608 508	123	17.00
728 608 509	123	25.00
728 608 510	123	26.00
728 608 511	123	36.00
735 600 105	123	16.00
735 600 106	42	17.00
735 600 107	42	20.00
735 600 108	42	23.00
735 600 109	42	32.00
735 600 110	42	36.00
735 600 111	42	50.00
735 608 606	42	21.00
735 608 607	42	24.00
735 608 608	42	31.00
735 608 609	42	36.00
735 608 610	42	41.00
735 608 611	42	60.00
735 690 405	122	25.00
735 690 406	42	28.00
735 690 407	42	35.00
735 690 408	42	45.00
735 690 409	42	64.00
735 690 410	42	95.00
735 690 411	42	149.00
745 500 012	41	25.00
745 500 013	41	29.00
745 500 014	41	37.00
745 500 015	41	48.00
745 500 016	41	65.00
745 500 017	41	91.00
747 502 012	41	117.00
747 502 013	41	123.00
747 502 014	41	165.00
747 502 015	41	194.00
747 502 016	41	206.00
747 502 017	41	295.00
747 502 032	41	143.00
747 502 033	41	150.00
747 502 034	41	179.00
747 502 035	41	216.00

Part Number Page List Price

Part Number Page List Price

Part Number Page List Price

747 502 036	41	236.00
747 502 037	41	338.00
747 503 012	41	117.00
747 503 013	41	123.00
747 503 014	41	165.00
747 503 015	41	194.00
747 503 016	41	206.00
747 503 017	41	295.00
748 410 003	36	5.00
748 410 005	122	3.00
748 410 006	42	3.00
748 410 007	42	3.00
748 410 008	42	6.00
748 410 009	42	6.00
748 410 010	42	6.00
748 410 011	42	8.00
748 410 014	122	12.00
748 410 023	36	8.00
748 410 059	36	2.00
748 410 062	36	5.00
748 410 106	36	2.00
748 410 119	36	3.00
748 410 151	36	3.00
748 410 231	36	5.00
748 410 254	36	25.00
748 500 012	41	21.00
748 500 013	41	24.00
748 500 014	41	30.00
748 500 015	41	37.00
748 500 016	41	51.00
748 500 017	41	71.00
749 410 003	36	25.00
749 410 005	122	3.00
749 410 006	42	5.00
749 410 007	42	6.00
749 410 008	42	7.00
749 410 009	42	17.00
749 410 010	42	19.00
749 410 011	42	20.00
749 410 014	122	29.00
749 410 023	36	52.00
749 410 059	36	4.00
749 410 062	36	24.00
749 410 106	36	4.00
749 410 119	36	25.00
749 410 151	36	14.00
749 410 231	36	29.00
749 410 254	36	58.00

749 500 012	41	97.00
749 500 013	41	101.00
749 500 014	41	135.00
749 500 015	41	154.00
749 500 016	41	154.00
749 500 017	41	220.00

General Terms and Conditions of Sale

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

GF Piping Systems USA Terms and Conditions (Rev. 2/2017) supersede all previous Terms and Conditions for Georg Fischer 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

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, DOWNTIME, 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.

Freight

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

- Pipe \$7,500 net or greater in one of the following categories:
 - PPro-Seal
 - Contain-It
 - Fuseal (1½"-6")
 - SYGEF
 - PROGEF
 - PVC and CPVC, including shapes and rods
 - PVC and CPVC, metric
 - Duct
 - CTS
 - LXT
 - Blazemaster
 - PE 100
 - m.COOL-FIT ABS
 - 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.

- 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:

- Signet Product
- Custom Products
- Heat Exchangers
- PVC and CPVC Fabricated Fittings 14" and larger
- Fuseal Squared, Tanks and Accessories, and Special Fabrications
- Fuseal Large Diameter Pipe and Fittings 8" and larger
- COOL-FIT ABS Lite Pipe
- Double-See
- International Orders
- 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 waving 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.

GF Piping Systems

9271 Jeronimo Road, Irvine, CA 92618

Tel. (714) 731-8800, Toll Free (800) 854-4090, Fax (800) 426-7188

e-mail: us.ps@georgfischer.com

www.gfpiping.com

Argentina / Southern South America

Georg Fischer Central Plastics
Sudamérica S.R.L.
Buenos Aires, Argentina
Phone +5411 4512 02 90
gfcentral.ps.ar@georgfischer.com

Australia

George Fischer Pty Ltd
Riverwood NSW 2210 Australia
Phone +61(0)2 9502 8000
australia.ps@georgfischer.com
www.georgfischer.com.au

Austria

Georg Fischer
Rohrleitungssysteme GmbH
3130 Herzogenburg
Phone +43(0)2782 856 43-0
austria.ps@georgfischer.com
www.georgfischer.at

Belgium / Luxembourg

Georg Fischer NV/SA
1070 Bruxelles/Brüssel
Phone +32(0)2 556 40 20
be.ps@georgfischer.com
www.georgfischer.be

Brazil

Georg Fischer Sist. de Tub. Ltda.
04795-100 São Paulo
Phone +55(0)11 5525 1311
br.ps@georgfischer.com
www.georgfischer.com.br

Canada

Georg Fischer Piping Systems Ltd
Mississauga, ON L5T 2B2
Phone +1(905)670 8005
Fax +1(905)670 8513
ca.ps@georgfischer.com
www.georgfischer.ca

China

Georg Fischer Piping Systems Ltd
Shanghai 201319
Phone +86(0)21 3899 3899
china.ps@georgfischer.com
www.georgfischer.cn

Denmark / Iceland

Georg Fischer A/S
2630 Taastrup
Phone +45(0)70 22 19 75
info.dk.ps@georgfischer.com
www.georgfischer.dk

Finland

Georg Fischer AB
01510 VANTAA
Phone +358(0)9 586 58 25
Fax +358(0)9 586 58 29
info.fi.ps@georgfischer.com
www.georgfischer.fi

France

Georg Fischer SAS
95932 Roissy Charles de Gaulle Cedex
Phone +33(0)1 41 84 68 84
fr.ps@georgfischer.com
www.georgfischer.fr

Germany

Georg Fischer GmbH
73095 Albershausen
Phone +49(0)7161 302-0
info.de.ps@georgfischer.com
www.georgfischer.de

India

Georg Fischer Piping Systems Ltd
400 076 Mumbai
Phone +91 224007 2001
in.ps@georgfischer.com
www.georgfischer.in

Italy

Georg Fischer S.p.A.
20063 Cernusco S/N (MI)
Phone +3902 921 861
it.ps@georgfischer.com
www.georgfischer.it

Japan

Georg Fischer Ltd
554-0011 Osaka
Phone +81(0)6 6635 2691
jp.ps@georgfischer.com
www.georgfischer.jp

Korea

Georg Fischer Piping Systems
271-3 Seohyeon-dong Bundang-gu
Seongnam-si, Gyeonggi-do
Seoul 463-824
Phone +82 31 8017 1450
Fax +82 31 8017 1454
kor.ps@georgfischer.com
www.georgfischer.kr

Malaysia

Georg Fischer (M) Sdn. Bhd.
40460 Shah Alam, Selangor Darul Ehsan
Phone +60 (0)3 5122 5585
my.ps@georgfischer.com
www.georgfischer.my

Mexico / Northern Latin America

Georg Fischer S.A. de C.V.
Apodaca, Nuevo Leon
CP66636 Mexico
Phone +52 (81)1340 8586
Fax +52 (81)1522 8906
mx.ps@georgfischer.com
www.georgfischer.mx

Middle East

Georg Fischer
Piping Systems (Switzerland) Ltd.
Dubai, United Arab Emirates
Phone +971 4 289 49 60
gcc.ps@georgfischer.com
www.export.georgfischer.com

Netherlands

Georg Fischer N.V.
8161 PA Epe
Phone +31(0)578 678 222
nl.ps@georgfischer.com
www.georgfischer.nl

New Zealand

Georg Fischer Ltd
13 Jupiter Grove, Upper Hutt 5018
PO Box 40399, Upper Hutt 5140
Phone +64(0)4 527 9813
nz.ps@georgfischer.com
www.gfps.com/nz

Norway

Georg Fischer AS
1351 Rud
Phone +47(0)67 18 29 00
no.ps@georgfischer.com
www.georgfischer.no

Poland

Georg Fischer Sp. z o.o.
05-090 Sekocin Nowy
Phone +48(0)22 31 31 0 50
poland.ps@georgfischer.com
www.georgfischer.pl

Romania

Georg Fischer
Piping Systems (Switzerland) Ltd.
020257 Bucharest - Sector 2
Phone +40(0)21 230 53 80
ro.ps@georgfischer.com
www.export.georgfischer.com

Russia

Georg Fischer
Piping Systems (Switzerland) Ltd.
Moscow 125047
Tel. +7 495 258 60 80
ru.ps@georgfischer.com
www.georgfischer.ru

Singapore

George Fischer Pte Ltd
11 Tampines Street 92, #04-01/07
528 872 Singapore
Phone +65 6747 0611
sgp.ps@georgfischer.com
www.sg.piping.georgfischer.com

Spain / Portugal

Georg Fischer S.A.
28046 Madrid
Phone +34(0)91 781 98 90
es.ps@georgfischer.com
www.georgfischer.es

Sweden

Georg Fischer AB
117 43 Stockholm
Phone +46(0)8 506 775 00
info.se.ps@georgfischer.com
www.georgfischer.se

Switzerland

Georg Fischer
Rohrleitungssysteme (Schweiz) AG
8201 Schaffhausen
Phone +41(0)52 631 30 26
ch.ps@georgfischer.com
www.piping.georgfischer.ch

Taiwan

Georg Fischer Co., Ltd.
San Chung Dist., New Taipei City
Phone +886 2 8512 2822
Fax +886 2 8512 2823
www.georgfischer.tw

United Kingdom / Ireland

Georg Fischer Sales Limited
Coventry, CV2 2ST
Phone +44(0)2476 535 535
uk.ps@georgfischer.com
www.georgfischer.co.uk

USA / Caribbean

Georg Fischer LLC
Irvine, CA 92618
Phone +1(714) 731 88 00
Toll Free 800 854 40 90
us.ps@georgfischer.com
www.gfpiping.com

Vietnam

George Fischer Pte Ltd
136E Tran Vu, Ba Dinh District, Hanoi
Phone +84 4 3715 3290
Fax +84 4 3715 3285

International

Georg Fischer
Piping Systems (Switzerland) Ltd.
8201 Schaffhausen/Switzerland
Phone +41(0)52 631 30 03
Fax +41(0)52 631 28 93
info.export@georgfischer.com
www.export.georgfischer.com

www.gfps.com

The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

