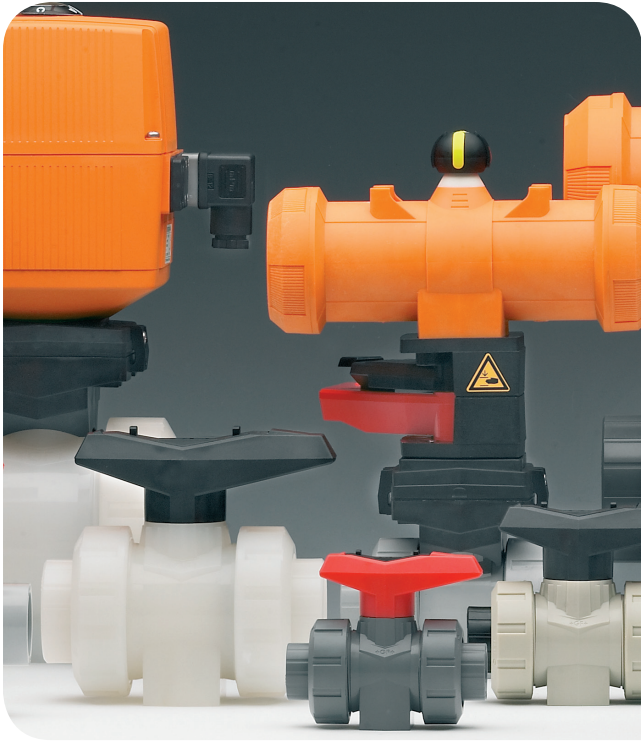




Condensed Valve Catalog

Materials: PVC, CPVC, PP, PVDF
Sizes 1/4" to 12"

Ball Valves
Check Valves
Diaphragm Valves
3-Way Valves
Butterfly Valves
Y-Globe Valves
Metering Valves
Needle Valves
Line Strainers
Pressure Regulating
Valves



Valve Selection

Valves are available in a broad spectrum of sizes and materials. Each design has its own advantages, and selection of the proper valve for a particular application is critical. The factors generally considered in the selection of a valve include:

- The fluid to be handled and the required flow rate.
- The requirements for valve control and/or flow shut off as demanded by the service conditions.
- The ability of the valve to withstand the maximum working pressure and temperature.

- The chemical resistance of the valve from attack by corrosion or erosion.
- Actuator requirements, if any.
- Maintenance, repair or replacement requirements

Because of these factors and many other variables, we work together with the customer to determine the particular valve best suited for the application.

Criteria for the Selection of GF Plastic Valves

Type	Medium to be transported				Function requirements					
	Free of foreign bodies	Containing solid particles or crystals	Viscous	Gaseous	Adjustable [i.e. for throttling]	Position indicator	Permits inline cleaning [pigging]	Leakproof under vacuum	Pressure surge behavior	Seal materials available
Diaphragm valve	+	+	+/O	+/O	+	+	—	O	O	EPDM, PTFE
Ball valve	+	O/—	+	+	+/O	+	+	+	+	EPDM, FPM
Y-Globe valve	+	O	+	O	+	O	—	O	—	PE, PTFE
Butterfly valve	+	+/O	+/O	+	+/O	+	—	+	+	EPDM, FPM

+ = recommended

O = conditionally suitable

— = not recommended

Description	Type Number		Range of Nominal Sizes				Available Seal Materials	Pressure in psi (water 68°F)
	Manually Operated	Actuated	PVC	CPVC	PP	PVDF		
Ball valve	546	107, 131-133, 231-233	3/8" – 4"	3/8" – 4"	3/8" – 4"	3/8" – 2"	EPDM, FPM	150, 232 psi*
Ball valve	375	—	3/8" – 6"	1/2" – 4"	1/2" – 4" (PP-n)	—	EPDM, FPM	150, 225 psi*
Ball valve COLORO	353,354,355	—	1/2" – 2"	—	—	—	EPDM, FPM	150,232 psi*
Ball valve MIP	350	—	1/2" – 2"	—	—	—	EPDM	150 psi
3-way ball valve	343	175-177 275-277	3/8" – 2"	3/8" – 2"	3/8" – 2"	3/8" – 2"	EPDM, FPM	150 psi**
Control ball valve	546	[optional]	1/2" – 2"	1/2" – 2"	1/2" – 2"	1/2" – 2"	EPDM, FPM	150,232 psi*
Metering ball valve	323	[optional]	3/8" & 1/2"	—	3/8" & 1/2"	—	EPDM, FPM	150 psi
Laboratory ball cock	324	—	1/4"	—	—	—	EPDM	150 psi
Diaphragm valve	314	018, Diastar	1/2" – 2"	—	1/2" – 2"	1/2" – 2"	EPDM, PTFE	150 psi**
	315	018, Diastar	—	1/2" – 2"	1/2" – 2"	1/2" – 2"	EPDM, PTFE	150 psi**
	317	Diastar	1/2" – 6"	1/2" – 4"	1/2" – 6"	1/2" – 6"	EPDM, PTFE	150 psi**
Diaphragm valve	319	[optional]	20 x 20 mm – 110 x 63 mm SYGEF PVDF. PP				PTFE	150 psi
Butterfly valve	567	140, 240	2" - 12"	2" - 12"	2" - 12"	2" - 12"	EPDM, FPM	150 psi
Butterfly valve	568	142, 242	2"-8"	2"-8"	2"-8"	2"-8"	EPDM, FPM	150 psi
Butterfly valve	365	—	2" - 12"	coated metal body with PFA coated disk, lug style			FPM	150 psi
Ball check valve	360	—	3/8" – 3"	3/8" – 2"	3/8" – 2"	3/8" – 2"	EPDM, FPM	150 psi
Wafer check valve	369	—	1½"-12"	—	—	—	EPDM, FPM	87 psi
Y-Check valve	304	—	1/2" – 3"	—	—	—	EPDM, FPM	150 psi
Y-Globe valve	301	211	1/2" – 3"	—	—	—	PE, PTFE	150 psi
Line Strainer	306	—	1/2" – 3"	—	—	—	EPDM, FPM	150 psi
Needle valve	522	—	—	—	1/2"	1/4" – 1/2"	PTFE	150 psi

* PVC, CPVC, PVDF socket (232 psi), PP socket (150 psi), threaded all materials (150 psi)

** Reduced pressure ratings on 4" Diastar (120 psi), 6" Diastar (90 psi) and 6" Type 317 (105 psi), 2½"-6" Type 343 (87 psi)

Summary of GF Actuated Valves

Pneumatically Actuated

Type Number		Ball Valve 231-233	Diaphragm Valve 025, 028	3-way Valve 275/276/277	Y-Globe Valve 211	Butterfly Valve	
						240	242
Size	PVC	3/8" - 4"	1/2" - 6"	3/8" - 2"	3/8" - 2"	2" - 12"	2"-8"
	CPVC	3/8" - 4"	1/2" - 4"	3/8" - 2"	-	2" - 12"	2"-8"
	PP	3/8" - 4"	20 - 63 mm 1/2" - 6"	3/8" - 2"	-	2" - 12"	2"-8"
	PVDF	3/8" - 4"	20 - 63 mm 1/2" - 6"	16 - 63 mm 3/8" - 2"	-	2" - 12"	2"-8"
	Metal	-	-	-	-	-	-
Seal Material		EPDM, FPM	EPDM, PTFE	EPDM, FPM	EPDM	EPDM, FPM	
Fail Safe Closed (FC)		+	+	+	+	+	
Fail Safe Open (FO)		+	+	+	+	+	
Double Acting (DA)		+	+	+	+	+	
Visual Position Indicator		+	+	+	+	+	
Limit Switches		+	+	+	-	+	
Potentiometer		+	+	+	-	+	
Positioner		+	+	+	-	+	
Manual Override		+	+	+	-	+	
Stroke Adjustment		+	+	-	-	+	
Speed Control		+	+	+	+	+	

Electrically Actuated (Motorized)

Type Number		Ball Valve 107	Ball Valve 131 - 133	3-way Valve 175/176/177	Butterfly Valve	
					140	142
Size	PVC	3/8" - 2"	3/8" - 4"	3/8" - 2"	2" - 12"	2"-8"
	CPVC	3/8" - 2"	3/8" - 4"	3/8" - 2"	2" - 12"	2"-8"
	PP	-	3/8" - 4"	16 - 63 mm 3/8" - 2"	2" - 12"	2"-8"
	PVDF	-	3/8" - 4"	16 - 63 mm 3/8" - 2"	2" - 12"	2"-8"
	Metal	-	-	-	-	-
Seal Material		EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM	
Fail Safe		+	+	+	+	
Visual Position Indicator		+	+	+	+	
Limit Switches		+	+	+	+	
Potentiometer		-	+	+	+	
Positioner		-	+	+	+	
Manual Override		+	+	+	+	
Speed Control		-	+	+	+	
Heater and Thermostat		+	+	+	+	
Controller		-	+	+	+	
Voltages		115, 230 VAC 24 VAC	110, 220 VAC 24 VAC/DC	110, 220 VAC 24 VAC/DC	110, 220 VAC 24 VAC/DC	

Manual Valves

End Connections A: solvent cement socket B: NPT threads C: solvent cement spigot D: flanges E: socket, butt and spigot fusion ends available in PP and PVDF					
	Ball Valve Type 546 True union ball valve. Maintenance free. Guaranteed performance. Tested 50,000 cycles. Can be converted to actuated in-line. Handle extension, silicone-free and Control Ball feature are available options.	Ball Valve Type 375 True union ball valve, O-ring seat backing provides constant torque. Teflon® seats. Tested 10,000 cycles with clean fluids. True union ends, NSF approved.	COLORO Compact Ball Valve Type 355 Unrestricted bore for optimum flow. Sturdy monobloc construction resists field breakage. Short laying length and low profile require minimum installation space. Teflon® seats. O-ring seat backing provides constant torque. True union ends.	COLORO Ball Valve Type 353 Unrestricted bore for optimum flow. Sturdy monobloc construction resists field breakage. Short laying length and low profile require minimum installation space. Teflon® seats. O-ring seat backing provides constant torque.	Ball Check Valve Type 360 Weighted check for vertical installation. Can be used as foot valve when used with Type 050 screen. Good sealing at low head pressure.
	Material PVC, CPVC, PP, PVDF	Material PVC, CPVC, PP-n	Material PVC	Material PVC	Material PVC, CPVC, PP, PVDF
	Seal Material EPDM, FPM	Seal Material EPDM, FPM	Seal Material EPDM, FPM	Seal Material EPDM, FPM	Seal Material EPDM, FPM
	Size Range 3/8" – 4"	Size Range 1/2" – 6"	Size Range 1/2" – 2"	Size Range 1/2" – 2"	Size Range 3/8" – 3" (3" PVC only)
	End Connection A B D E	End Connection A B D	End Connection A B	End Connection A B	End Connection A B C (3" only) E
Body and Seal Materials PVC Polyvinyl Chloride CPVC Chlorinated Polyvinyl Chloride FPM Fluorine Rubber EPDM Ethylene Propylene Rubber PTFE Polytetrafluoroethylene (Teflon®) PE Polyethylene FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers. Teflon® is a registered trademark of DuPont.					
	Y-Globe Valve Type 301 Good flow characteristics. Bonnet nut facilitates exchange of components. Easy replacement of disc and seat assembly.	Y-Check Valve Type 304 Excellent flow characteristics. Minimum pressure loss. Mount horizontally or vertically. Efficient at low working pressures.	HP Butterfly Valve Type 365 PTFE-lined lug style butterfly valve with PFA-encapsulated disc. Manufactured for high-purity applications. Actuated versions available.	Wafer Check Valve Type 369 The valve is available in versions with or without springs. The spring loaded version works well in vertical and horizontal installations where many check valves may not.	
Material	PVC (transparent)	PVC (transparent)	Coated ductile iron	PVC	
Seal Material	PE, PTFE	EPDM, FPM	PTFE/PFA	EPDM, FPM	
Size Range	1/2" – 3"	1/2" – 3"	2" – 12"	1½" – 12"	
End Connections	C	C	Lug	D	

					
3-Way Ball Valve Type 343 Vertical and horizontal styles available. L and T-ports for diverting of mixing fluid. Long working life. O-ring seat backing provides constant torque. Teflon® seats.	Metering Ball Valve Type 323 Precise control at low flow conditions. Indicator scale allows fine adjustment. Teflon® seats.	Laboratory Ball Cock Valve Type 324 Specially designed for laboratory use. Long working life. Teflon® seats.	MIP Valve Type 350 Grey or white PVC. Economical, with long working life.	Needle Valve Type 522, Angle and Globe Body Styles Precise control with fine adjustment. Broad chemical resistance with rugged construction. Working pressures up to 200 psi at 73°F.	Butterfly Valve Type 563 Aqua Wafer style valve, double eccentric design allows for lower operating torque and less wear. Glass filled polypropylene outer body.
PVC, CPVC, PP, PVDF	PVC, PP	PVC	PVC	PP, PVDF	PVC
EPDM, FPM	EPDM, FPM	EPDM	EPDM	PTFE	EPDM
3/8" – 2"	3/8", 1/2"	1/4"	1/2" – 2"	1/4", 3/8", 1/2"	2" – 12"
A B	A B E	A B	A B	B	Wafer
					
Diaphragm Valve Type 314 Ergonomic, easily removable handwheel. Optional lockable handle. Suitable for slurries and abrasive media. Can be post-actuated.	Diaphragm Valve Type 315 Ergonomic, easily removable handwheel. Optional lockable handle. Suitable for slurries and abrasive media. Excellent for throttling control. Can be post-actuated.	Diaphragm Valve Type 317 Ergonomic, easily removable handwheel. Optional lockable handle. Suitable for slurries and abrasive media. Excellent for throttling control. Can be post-actuated.	Zero Static Diaphragm Valve Type 319 Shortest possible branch geometry for zero dead leg. Molded body. High purity versions available. Can be post-actuated.	Butterfly Valve Type 567 Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.	Butterfly Valve Type 568 Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Epoxy coated outer body.
PVC, PP, PVDF	CPVC, PP, PP-n, PVDF	PVC, CPVC, PP, PP-n, PVDF	PP, PP-n, PVDF	PVC, CPVC, PP, PVDF	PVC, CPVC, PP, PVDF
EPDM, PTFE	EPDM, PTFE	EPDM, PTFE	EPDM, PTFE	EPDM, FPM	EPDM, FPM
1/2" – 2"	1/2" – 2"	1/2" – 6"	20x20 – 100x63mm	2" – 12"	2" – 8"
A E	C E	D	E	Wafer	Lug

Actuated Valves and Accessories

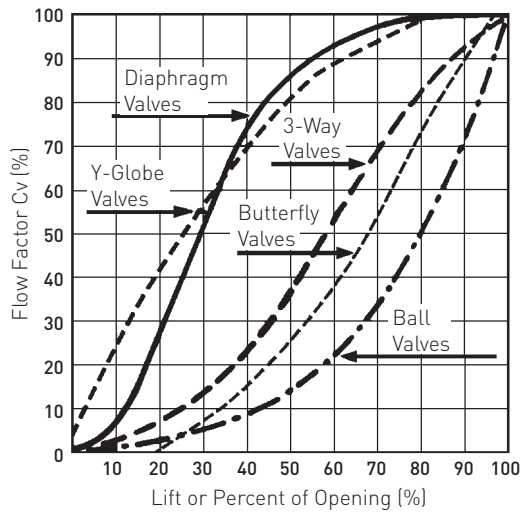
End Connections A:solvent cement socket B: NPT threads C:solvent cement spigot D: flanges E:socket, butt and spigot fusion ends available in PP and PVDF F: Lug				
	Ball Valve with Electric Actuator Type 107 Low cost economic actuated on/off ball valve. Standard with manual override and feedback switches.	Ball Valve with Electric Actuator Type 131 - 133 Premium electric actuator for long service life. Used for process control application.	Ball Valve with Pneumatic Actuator Type 231-233 Lightweight, glass-filled polypropylene actuator with pre-tensioned safety springs.	Ball Valve with Electric Actuator Type 175-177, 3-way Premium electric actuator for long service life. 100% duty cycle rating.
	EA 11	EA 21/EA 31	PA 11/PA 21/PA 30/PA 35/PA 40/PA 45	EA 21
	On/Off	Process control	On/Off Process control	On/Off
	Control Time	5S/90° at nom. torque	5S/90° at nom. torque	1 sec
Body and Seal Materials PVC Polyvinyl Chloride CPVC Chlorinated Polyvinyl Chloride FPM Fluorine Rubber EPDM Ethylene Propylene Rubber PTFE Polytetrafluoroethylene (Teflon®) PE Polyethylene FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers. Teflon® is a registered trademark of DuPont.				
	Diaphragm Valve with DIASTAR Pneumatic Actuator Rugged GF PP actuation, Lightweight, compact design. Preloaded springs for safety. Long life, excellent throttling characteristics.	Zero Static Valve with DIASTAR Pneumatic Actuator High Purity Rugged GF PP actuation, Lightweight, compact design. Preloaded springs for safety. Long life, excellent throttling characteristics.	Pressure Regulating Valve Highly accurate and stable pressure control. Wide range of pressures and flow.	Line Strainer Type 306 Protects equipment from solid particles. Screens available in four mesh sizes. Transparent PVC enables easy visibility of screen collection.
	Fail Safe to Close Fail Safe to Open Double Acting	Fail Safe to Close Fail Safe to Open Relief	Regulating Retaining Relief	
	105 psi max.	105 psi max.	Variable	
	PVC, CPVC, PP, PP-n, PVDF	PP, PP-n, PVDF	PVC, PP, PVDF	PVC (transparent)
	EPDM, PTFE	EPDM, PTFE	EPDM, PTFE	EPDM, FPM
	1/2" - 6"	20x20 - 110x63mm	3/8" - 4"	1/2" - 3"
	A B C D E	E	A B D E	C

Actuated Valves and Accessories

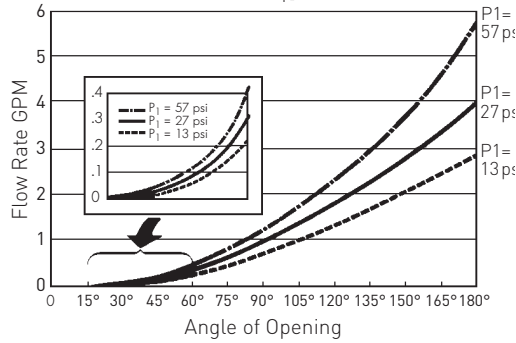
				
	Butterfly Valve with Electric Actuator Type 140 Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body. 100% duty cycle.	Actuator Type 142 Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Epoxy coated outer body. 100% duty cycle.	Butterfly Valve with Pneumatic Actuator Type 240 Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.	Butterfly Valve with Pneumatic Actuator Type 242 Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Epoxy coated outer body.
Actuator Types	EA31, EA42	EA31, EA42	PA30, PA35, PA40, PA45, PA50, PA55	PA30, PA35, PA40, PA45, PA50, PA55
Functions			Fail Safe to Close Fail Safe to Open Double Acting	Fail Safe to Close Fail Safe to Open Double Acting
Control Time	EA31: 15s EA42: 25s	EA31: 15s EA42: 25s	0.5 - 1sec	0.5 - 1sec.
Voltage/Air Pressure	24/110-220V, 50-60Hz	24/110-220V 50-60Hz	105 psi max.	105 psi max
Material	PVC, CPVC, PVDF, PP	PVC, CPVC, PVDF, PP	PVC, CPVC, PVDF, PP	PVC, CPVC, PVDF, PP
Seal Material	EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM
Size Range	2" - 12"	2" - 8"	2" - 12"	2" - 8"
End Connection	Wafer	Lug	Wafer	Lug

 Ball Valve with Pneumatic Activator Type 275-277, 3-way Glass filled polypropylene. Corrosion resistant, lightweight, pneumatic actuation.	 Control Ball Valve Made from Type 546 Excellent flow control utilizing a characterized ball. Low pressure loss.	 Rotameters All plastic construction. For water, air and corrosive applications. Flow ranges from 0.01-132 GPM. Accuracy 3% of full scale.		
PA 11/21 Fail Safe to Close Fail Safe to Open Double Acting	Electric/Pneumatic Flow control			
1 sec.	Positioner	PSU, PA or PVDF tube PVC, PP, PVDF ends		
105 psi max.	24/110-220V (electric), 105 psi (pneumatic)	EPDM, PTFE		
PVC,CPVC,PP,PVDF EPDM, FPM	PVC, PP, PVDF EPDM, FPM	3/8" – 2½" A B E		
3/8" – 2"	1/2" – 2"	2" – 24"		
A B C D E	A C	Lug/Wafer		
 Pilot Solenoid Valve On/Off control for pneumatic valves. 100% duty cycle rating. PV 94 and PV 95 for direct mount. PV200 for manifold.	 Pneumatic Positioners Positioners for pneumatic ball, butterfly and diaphragm valves. 4-20 mA input signal.	 Positioner /Controller Type PE22 and PE25 Can be internally mounted into existing GF electric actuators to provide positioning/control functions.	Accessories Manual override Fail Safe Unit Limit switches Intermediate position for 3-way valves Potentiometer Speed Control Heating Element Positioner/Controller Stroke Limiter Solenoid Pilot Valve	

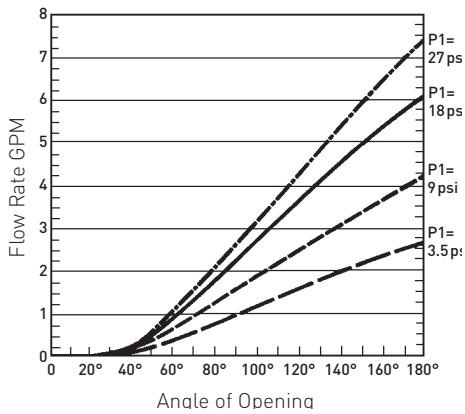
Flow Characteristics



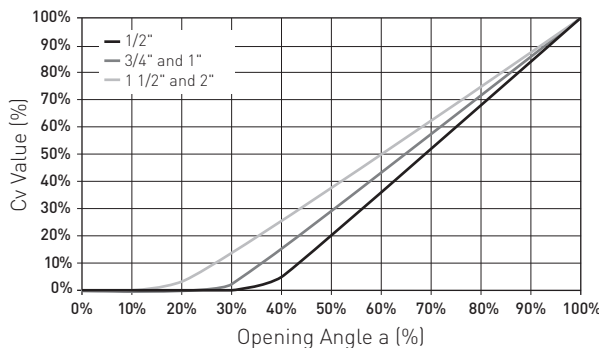
3/8" Metering Valve



1/2" Metering Valve

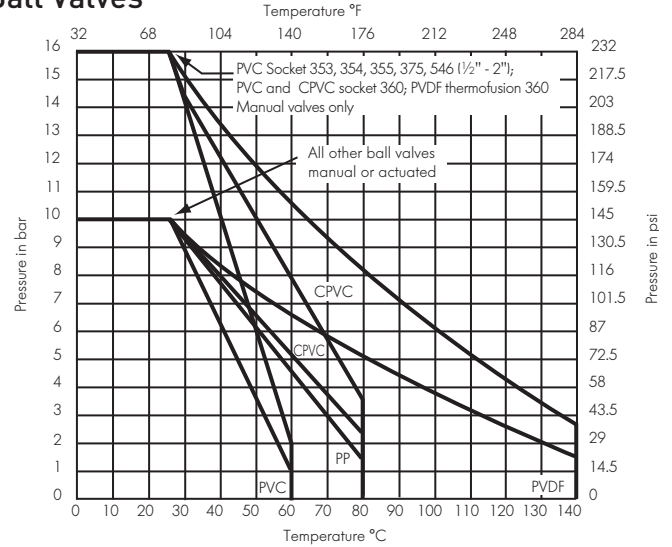


Control Ball Valve

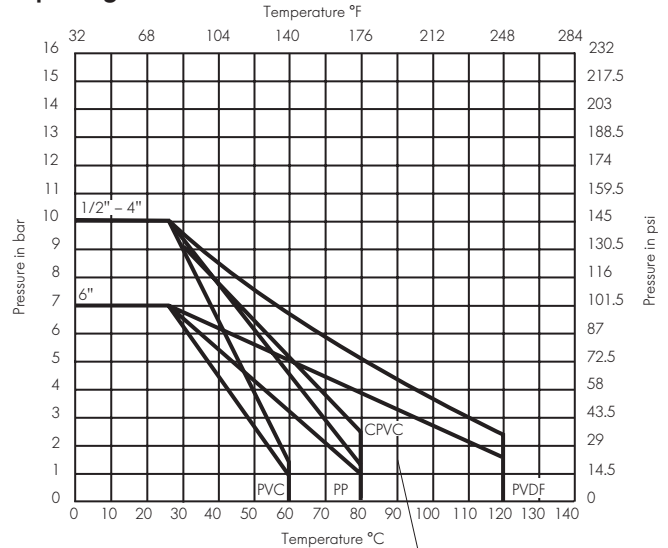


Pressure/Temperature Characteristics

Ball Valves

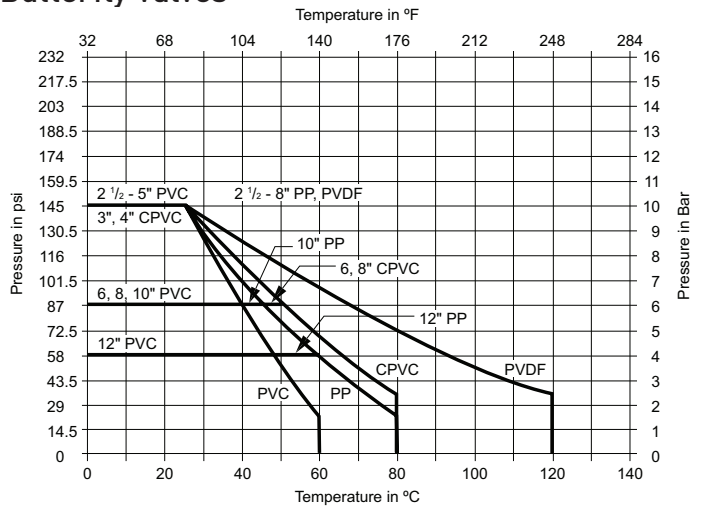


Diaphragm Valves



For continuous operation at temperatures over 194°F (90°C) it is recommended to use a FPM supporting diaphragm instead of an EPDM supporting diaphragm.

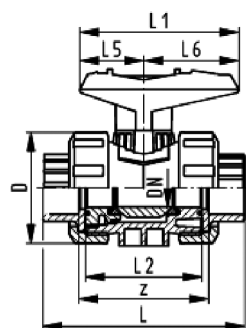
Butterfly Valves



Type 388 metallic butterfly valves rated to 250 psi max. at 250°F

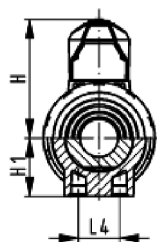
C_v Values (K_v = C_v (14.28) = liters/min @ 1bar drop)

Nominal size	546 353-355 370. 375 Ball Valve	343	323	314 315 317 Diastar		567/568	301 304 Y-Globe Y-Check	306 Line Strainer	522 Needle/Globe/ Angle Valve	369 Wafer Check Valve	360 Ball Check Valve
1/4	2.20								0.31/0.43		
3/8	4.97	3.43	0.77						0.31/0.43		11.9
1/2	12.95	5.39	1.40	5.04	5.04		6.7	2.5	0.62/0.78		10.5
3/4	24.50	10.22		9.59	8.4		12.6	4.4			23.1
1	49.01	18.20		14.49	16.67		22.9	6.0			27.3
1¼	70.02	30.60		24.78	23.88		33.9	10.5			49.7
1½	112.04	46.70		36.19	32.21		50.7	15.8		25.9	63.0
2	217.08	90.54		49.91	47.97	103	79.1	24.2		63.0	97.3
2½	350			69.4	69.4	154				79.8	
3	490			119	119	210	175	66.5	63.5	130.9	224
4	770			189	189	455				200.9	
5						805				399.0	
6	1120			422	422	1162				483.0	
8						2772				1316.0	
10										1750.0	
12										1932.0	
14											
16											



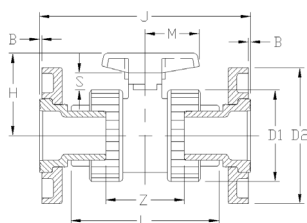
Type 546 True Union Ball Valve (PVC/CPVC)

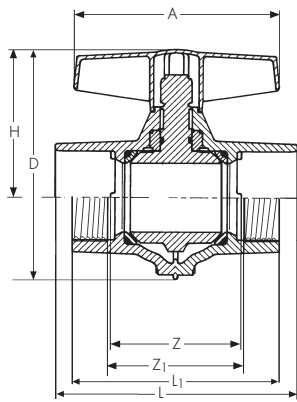
inch	DN	D	H	H ₁	L	L ₁	L ₂	L ₄	L ₅	L ₆	z	lbs
3/8	10	1.97	2.24	1.04	4.13	3.03	2.20	0.98	1.26	1.77	2.64	0.40
1/2	15	1.97	2.24	1.04	4.13	3.03	2.20	0.98	1.26	1.77	2.40	0.42
3/4	20	2.28	2.64	1.18	4.76	3.82	2.56	0.98	1.54	2.28	2.76	0.64
1	25	2.68	2.87	1.40	5.24	3.82	2.80	0.98	1.54	2.28	2.99	0.94
1¼	32	3.31	3.54	1.73	6.06	5.04	3.35	1.77	2.13	2.91	3.54	1.61
1½	40	3.82	3.82	1.99	6.46	5.04	3.50	1.77	2.13	2.91	3.70	2.18
2	50	4.88	4.57	2.52	7.20	5.98	3.98	1.77	2.58	3.41	4.21	3.91
2½	65	6.54	5.87	3.35	9.17	10.63	5.35	2.76	2.52	8.11	5.67	10.8
3	80	7.87	6.34	4.13	10.00	10.63	5.55	2.76	2.52	8.11	5.94	16.3
4	100	9.37	7.01	4.84	11.85	12.60	6.46	4.72	2.52	10.08	6.85	25.4



Type 375 True Union Ball Valve

Size	D ₁	D ₂	L	Z	J	H	M	S	B	approx. Wt. Lbs	
3/8-1/2	1.88	3.50	3.58	1.84	5.28	2.31	1.44	0.55	0.069	PVC	0.4
3/4	2.27	3.88	4.10	2.08	5.79	2.50	1.44	0.55	0.072	CPVC	0.5
1	2.63	4.25	4.56	2.34	6.55	3.05	1.85	0.66	0.076		0.8
1¼	3.06	4.63	5.15	2.65	7.16	3.28	1.85	0.70	0.100		1.2
1½	3.67	5.00	5.87	3.13	8.13	3.60	2.41	0.88	0.078		2.2
2	4.48	6.00	6.73	3.68	9.30	3.95	2.41	0.82	0.082		2.7
2½	5.63	7.00	8.23	4.66	11.26	4.90	3.07	1.00	0.085		4.7
3	6.51	7.50	9.60	5.67	12.87	5.28	3.07	0.94	0.090		12.8
4	8.15	9.00	11.28	6.46	14.70	6.64	4.03	1.19	0.090		13.4
6	8.15	11.00	30.78	24.78	34.80	6.64	4.03	1.19	0.125		20.0
											33.8

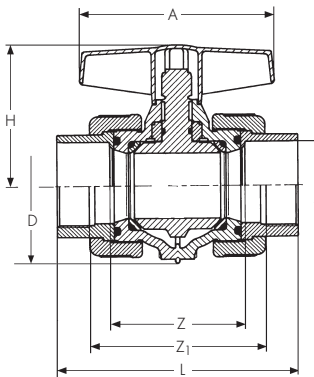




Type 353 Compact Ball Valve

Inch size	A inch	D inch	H inch	L* inch	L ₁ ** inch	Z* inch	Z ₁ ** inch	Weight inch
1/2	3.07	2.97	2.01	3.04	2.76	1.29	1.41	0.16
3/4	3.62	3.35	2.28	3.51	3.06	1.51	1.68	0.21
1	3.62	3.72	2.46	4.13	3.73	1.87	2.03	0.30
1¼	4.57	4.55	3.01	4.69	4.28	2.19	2.50	0.49
1½	4.57	5.04	3.27	5.35	4.62	2.60	2.83	0.68
2	5.51	6.20	4.00	6.30	5.71	3.27	3.82	1.43

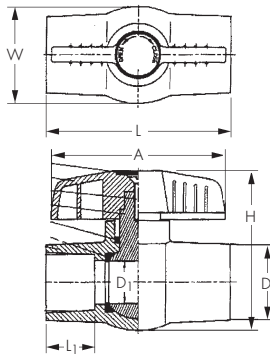
* Solvent cement socket valve ** Threaded (NPT) valve



Type 355 True Union Ball Valve

Inch size	A inch	D inch	H inch	L* inch	L ₁ ** inch	Z* inch	Z ₁ ** inch	Weight inch
1/2	3.07	2.97	2.01	4.06	3.62	2.36	2.59	0.29
3/4	3.62	3.35	2.28	4.53	4.09	2.60	2.91	0.40
1	3.62	3.72	2.46	5.00	4.45	2.72	3.11	0.57
1¼	4.57	4.55	3.01	5.63	5.20	3.15	3.70	1.00
1½	4.57	5.04	3.27	6.10	5.79	3.35	4.29	1.29
2	5.51	6.20	4.00	6.77	6.81	3.82	5.00	2.38

* Solvent cement socket valve ** Threaded (NPT) valve



Type 350 MIP (Molded-In-Place) Ball Valve

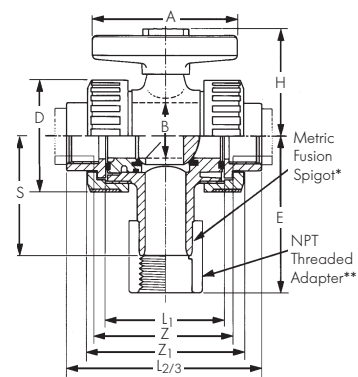
Inch size	A inch	D inch	H inch	L* inch	L ₁ ** inch	Z* inch	Z ₁ ** inch	Weight inch
1/2	2.75	1.19	0.56	2.44	3.25	0.88	1.50	0.17
3/4	3.75	1.50	0.75	3.06	3.75	1.00	1.94	0.31
1	3.94	1.75	1.00	3.63	4.19	1.13	2.25	0.48
1¼	3.94	2.13	1.19	3.88	4.50	1.25	2.50	0.59
1½	4.19	2.44	1.44	4.50	5.13	1.38	2.94	0.92
2	5.31	3.00	1.81	5.31	5.75	1.50	3.63	1.53

Type 343 Vertical 3-Way Ball Valve, 3/8" - 2", PVC

Inch size	thread Z ₁ inch	socket Z inch	socket L inch	thread L inch	L ₁ inch	B inch	D inch	A inch	H inch	thread E inch	socket C inch	spigot length S inch	weight lbs.
3/8	3.61	2.93	4.45	4.14	2.48	0.55	1.81	3.07	1.97	2.91	3.06	2.24	0.33
1/2	3.46	2.70	4.49	4.17	2.48	0.55	1.81	3.07	1.97	3.20	3.34	2.44	0.33
3/4	4.00	3.15	5.18	4.75	2.95	0.74	2.20	3.62	2.36	3.70	3.86	2.83	0.55
1	4.41	3.34	5.62	5.30	3.11	0.94	2.64	3.94	2.76	3.97	4.17	3.03	0.79
1 1/4	4.98	4.05	6.58	5.91	3.50	1.21	3.23	4.33	3.14	4.46	4.79	3.43	1.32
1 1/2	5.49	3.98	6.76	6.42	3.74	1.53	3.86	4.72	3.62	4.95	5.19	3.82	2.05
2	6.80	4.95	7.97	7.76	4.53	1.92	4.72	5.75	4.33	5.63	6.06	4.41	3.75

Z solvent cement socket laying length

Z₁ threaded laying length is herein defined as the dimension between the ends of the pipe when threaded into the valve to a depth equal to the nominal "handtight" plus 1/2 turn



* No coupling provided

** Fused to outlet on threaded valves. (Advise if valve is required to be actuated.)

Type 343 Horizontal 3-Way Ball Valve with sockets

PVC/CPVC solvent cement sockets

d mm	DN mm	Inch size	z inch	z ₁ inch	D inch	H inch	H ₁ inch	H ₂ inch	L inch	L ₁ inch	L ₂ inch	L ₃ inch	L ₄ inch	L ₅ inch	M mm
16	10	3/8	3.15	1.57	1.69	1.97	1.06	0.31	4.76	3.07	2.83	2.40	0.98	1.42	6
20	15	1/2	3.15	1.57	1.69	1.97	1.06	0.31	4.76	3.07	2.83	2.40	0.98	1.42	6
25	20	3/4	3.70	1.85	2.05	2.36	1.30	0.31	5.59	3.62	3.39	2.80	0.98	1.69	6
32	25	1	4.09	2.05	2.56	2.68	1.42	0.31	6.22	3.94	3.78	3.11	0.98	1.89	6
40	32	1 1/4	4.96	2.48	3.07	3.11	1.73	0.35	7.60	4.33	4.57	3.82	1.77	2.28	8
50	40	1 1/2	5.67	2.83	3.62	3.54	1.93	0.35	8.35	4.72	5.39	4.17	1.77	2.72	8
63	50	2	7.32	3.66	4.57	4.29	2.40	0.35	10.43	5.75	7.05	5.24	1.77	3.54	8

PP metric fusion sockets

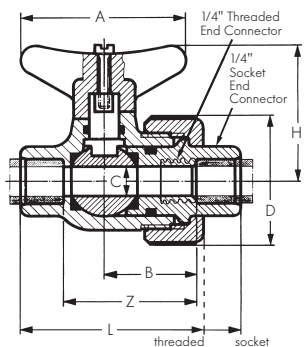
d mm	DN mm	Inch size	z inch	z ₁ inch	D inch	H inch	H ₁ inch	H ₂ inch	L inch	L ₁ inch	L ₂ inch	L ₃ inch	L ₄ inch	L ₅ inch	M mm
16	10	3/8	3.07	1.54	1.81	1.97	1.06	0.31	4.25	3.07	2.76	2.13	0.98	1.42	6
20	15	1/2	3.11	1.57	1.81	1.97	1.06	0.31	4.37	3.07	2.76	2.20	0.98	1.42	6
25	20	3/4	3.74	1.89	2.20	2.36	1.30	0.31	5.16	3.62	3.39	2.60	0.98	1.69	6
32	25	1	4.25	2.13	2.64	2.68	1.42	0.31	5.83	3.94	3.78	2.91	0.98	1.89	6
40	32	1 1/4	5.24	2.64	3.23	3.11	1.73	0.35	6.97	4.33	4.49	3.50	1.77	2.28	8
50	40	1 1/2	6.10	3.07	3.86	3.54	1.93	0.35	8.07	4.72	5.39	4.06	1.77	2.72	8
63	50	2	7.99	4.02	4.76	4.29	2.40	0.35	10.28	5.75	7.05	5.16	1.77	3.54	8

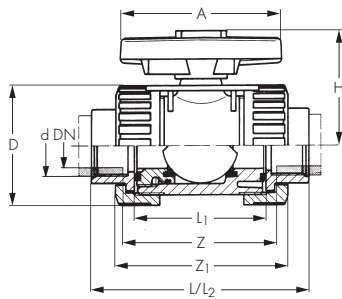
PVDF metric fusion sockets

d mm	DN mm	Inch size	z inch	z ₁ inch	D inch	H inch	H ₁ inch	H ₂ inch	L inch	L ₁ inch	L ₂ inch	L ₃ inch	L ₄ inch	L ₅ inch	M mm
16	10	3/8	3.07	1.54	1.81	1.97	1.06	0.31	4.25	3.07	2.76	2.13	0.98	1.42	6
20	15	1/2	3.11	1.57	1.81	1.97	1.06	0.31	4.37	3.07	2.76	2.20	0.98	1.42	6
25	20	3/4	3.74	1.89	2.20	2.36	1.30	0.31	5.16	3.62	3.39	2.60	0.98	1.69	6
32	25	1	4.25	2.13	2.64	2.68	1.42	0.31	5.79	3.94	3.78	2.91	0.98	1.89	6
40	32	1 1/4	5.24	2.64	3.19	3.11	1.73	0.35	6.93	4.33	4.49	3.46	1.77	2.28	8
50	40	1 1/2	6.10	3.07	3.82	3.54	1.93	0.35	8.03	4.72	5.39	4.02	1.77	2.72	8
63	50	2	7.99	4.02	4.69	4.29	2.40	0.35	10.20	5.75	7.05	5.12	1.77	3.54	8

Type 324 Laboratory Ball Cock

Inch size	A inch	C inch	D inch	H inch	L inch	Z inch	B inch	Weight lbs.
1/4 T	1.77	0.32	1.34	1.50	1.96	1.02	0.59	0.088
1/4 S	1.77	0.32	1.34	1.50	2.36	1.42	0.98	0.099





Type 323 Metering Ball Valve

Inch size	L PVC sock	inch thrd	L2 PP inch	L1 PVC inch	L1 PP inch	Z* inch	Z1** inch	Z2* inch	D inch	H PVC inch	H PP inch	A inch	Weight		OD d mm	ID DN mm
	lbs.												PVC	PP		
3/8	4.45	4.14	3.86	2.48	2.44	2.91	3.61	2.68	1.81	1.97	1.93	3.07	0.33	0.22	16	10
1/2	4.49	4.17	3.98	2.48	2.44	2.64	3.46	2.72	1.81	1.97	1.93	3.07	0.33	0.22	20	15

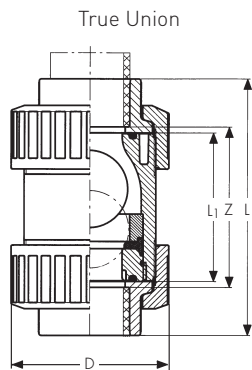
L Overall length of threaded and solvent cement socket valve in PVC

L₂ Overall length of metric fusion socket valve in PP

Z* Solvent cement socket valve in PVC (laying length)

Z₁** Threaded valve in PVC (laying length is herein defined as the dimension between the ends of pipe when threaded into valve to a depth equal to the nominal "Handtight" plus ½ turn)

Z₂* Metric fusion socket valve in PP (laying length)



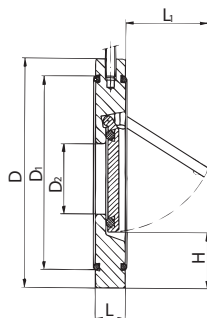
Type 360 Ball Check Valve

Inch size	L inch	L ₁ inch	Z* inch	Z** inch	D inch	Weight lbs.
3/8	4.45	2.48	2.93	3.53	1.81	0.27
1/2	4.49	2.48	2.70	3.53	1.81	0.27
3/4	5.18	2.95	3.15	3.93	2.20	0.45
1	5.62	3.11	3.34	4.35	2.64	0.70
1¼	6.58	3.50	4.05	5.25	3.23	1.16
1½	6.76	3.74	3.98	5.20	3.86	1.85
2	7.97	4.53	4.95	6.36	4.72	3.30
3†	11.81	—	—	—	7.09	10.8

†spigot

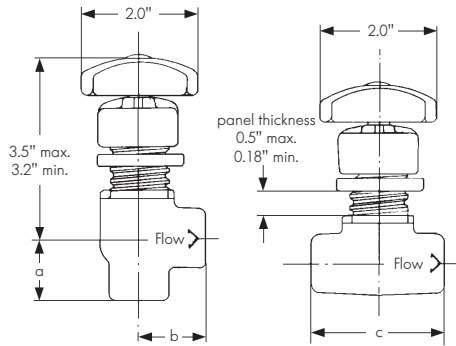
Z* Solvent cement socket valve (laying length)

Z** Threaded valve (laying length is herein defined as the dimension between the ends of pipe when threaded into valve to a depth equal to the nominal "Handtight" plus ½ turn)



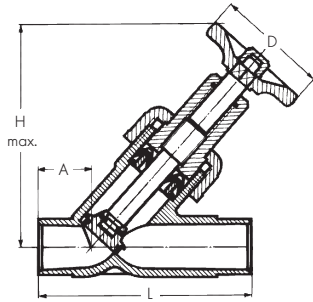
Type 369 Wafer Check Valve

Dimensions							Opening Pressure (psi)				Minimum water column for sealing (ft.)
Inch	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	H [mm]	Vertical without spring	Vertical with spring	Horizontal without spring	Horizontal with spring	PVC
1½	95	72	22	16	25	28	0.15	0.44	0.01	0.29	6.5
2	109	86	32	18	37	292	0.15	0.44	0.01	0.29	6.5
2½	129	105	40	20	50	31	0.15	0.44	0.01	0.29	6.5
3	144	119	54	20	61	32	0.15	0.44	0.01	0.29	6.5
4	164	146	70	23	77	31	0.15	0.44	0.01	0.29	6.5
5	195	173	92	23	94	35	0.15	0.44	0.01	0.29	6.5
6	220	197	112	26	115	35	0.15	0.44	0.01	0.29	6.5
8	275	255	154	35	152	38	0.26	0.55	0.01	0.29	6.5
10	330	312	192	40	180	41	0.26	0.55	0.01	0.29	6.5
12	380	363	227	45	215	41	0.26	0.55	0.01	0.29	6.5



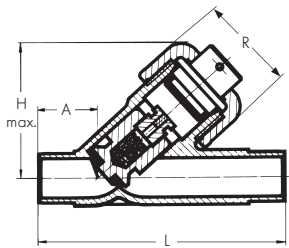
Type 522 Needle Valve

	Angle body style		Globe body style				
Inch size	Inlet inch	Outlet inch	a inch	b inch	Inlet inch	Outlet inch	c inch
1/4	0.25	0.187	1.00	1.10	0.187	0.187	2.28
3/8	0.25	0.187	1.00	1.10	0.187	0.187	2.28
1/2	0.25	0.218	1.10	1.20	0.218	0.218	2.57



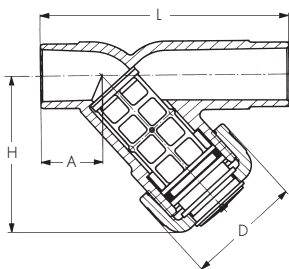
Type 301 Y-Globe Valve

Inch size	L inch	D inch	H max. inch	A inch	Weight lbs.
1/2	5.62	2.48	4.96	1.47	0.40
3/4	6.30	2.48	5.51	1.77	0.55
1	6.83	3.15	6.54	1.84	0.85
1 1/4	7.40	3.15	7.52	2.08	1.30
1 1/2	8.07	3.94	9.17	2.11	2.15
2	8.86	3.94	10.39	2.46	3.25
3	12.23	7.87	15.35	3.56	8.70



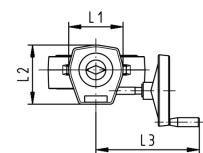
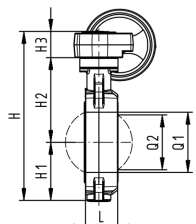
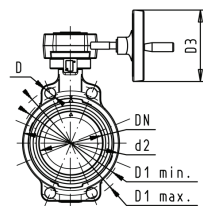
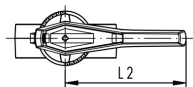
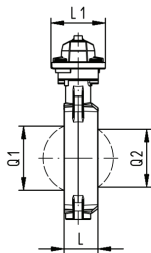
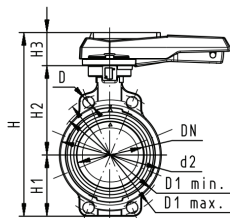
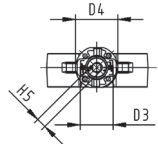
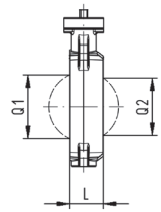
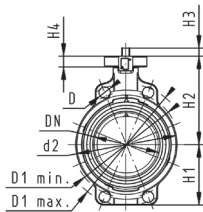
Type 304 Y-Check Valve

Inch size	L inch	H inch	A inch	R inch	Weight lbs.
1/2	5.62	2.56	1.47	1.89	0.31
3/4	6.30	3.00	1.77	2.13	0.44
1	6.83	3.56	1.84	2.44	0.77
1 1/4	7.40	4.13	2.08	2.80	1.10
1 1/2	8.07	4.88	2.11	3.47	1.91
2	8.86	5.81	2.46	4.06	3.15
3	12.23	8.06	3.56	4.72	7.70



Type 306 Line Strainer

Inch size	L inch	D inch	H inch	A inch	Weight lbs.
1/2	5.62	1.89	2.56	1.34	0.24
3/4	6.30	2.13	3.00	1.70	0.37
1	6.83	2.44	3.56	1.72	0.56
1 1/4	7.40	2.80	4.13	1.83	0.84
1 1/2	8.07	3.47	4.88	2.05	1.40
2	8.86	4.06	5.81	2.36	2.21
3	12.23	4.72	8.06	3.84	5.66

Type 567 Bare shaft

Inch	psi	Cv-value	d	D	D1 min.	D1 max.	d2	D3	D4	H	H1	H2	H3	H4	H5	L
2	150	103	63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45
2½	150	154	75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46
3	150	210	90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49
4	150	455	110	19	175.0	195.0	161	85.0	90.0	287	104	167	16	23	14	56
5	150	805	140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64
6	150	1162	160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72
8	150	2772	225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73
10	150	3865	280	25	253.0	362.0	329	102	125	509	205	264	40	23	22	113
12	150	5600	315	25	400.0	432.0	379	102	125	553	228	285	40	23	22	113

Q1	d	Q2
35.74	63	
50.93	75	30.62
64.01	90	46.24
84.46	110	69.96
110.71	140	94.50
136.08	160	121.54
175.62	225	166.23
210	280	207
256	315	253

Type 567 with Hand Lever

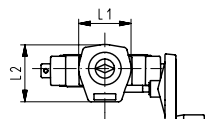
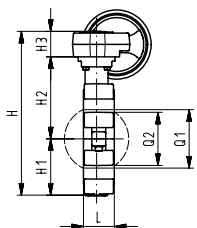
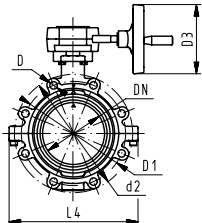
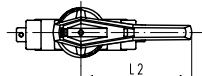
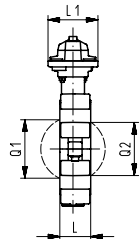
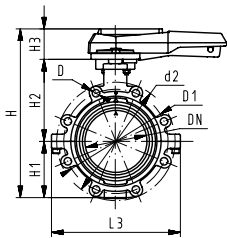
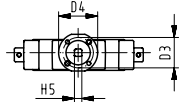
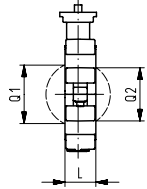
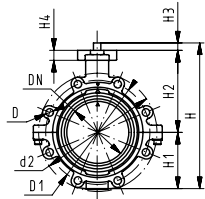
note: 10" and 12" max 90psi for safety

Inch	psi	Cv-value	d	D	D1 min.	D1 max.	d2	H	H1	H2	H3	L	L1	L2	Q1	Q2
2	150	103	63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
2½	150	154	75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.60
3	150	210	90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
4	150	455	110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
5	150	805	140	19	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
6	150	1162	160	19	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
8	150	2772	225	19	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23
10	150	3865	280	25	253.0	362.0	329	554	205	264	85	113	149	408	210	207
12	150	5600	315	25	400.0	432.0	379	598	228	285	85	113	149	408	256	253

Type 567 Gear Operator

Inch	psi	Cv-value	d	D	D1 min.	D1	d2	H	H1	H2	H3	L	L1	L2	L3
2	150	103	63	19	120.0	125.0	104	264	77	134	54	45	106	205	236
2½	150	154	75	19	139.7	145.0	115	277	83	140	54	46	106	205	236
3	150	210	90	19	150.0	160.0	131	289	89	146	54	49	106	205	236
4	150	455	110	19	175.0	190.5	161	325	104	167	55	56	106	255	236
5	150	805	140	19	210.0	215.9	187	352	117	181	55	64	106	255	236
6	150	1162	160	19	241.3	241.3	215	373	130	189	55	72	106	255	236
8	150	2772	225	19	290.0	295.0	267	435	158	210	67	73	140	408	236
10	150	3865	280	25	353.0	362.0	329	529	205	264	60	113	134	151	261
12	150	5600	315	25	400.0	432.0	379	573	228	285	60	113	134	151	261

Q1	Q2
35.74	
50.93	30.60
64.01	46.24
84.46	69.96
110.71	94.50
136.08	121.54
175.62	166.23
210	207
256	253



Type 568 Bare Shaft

Inch	psi	Cv-value	d2	D	D1	D3	D4	H	H1	H2	H3	H4	L	Q1	Q2	H5
2	150	103	150	5/8	121	70	90	222	77	134	27	23	45	40		11
2½	150	154	170	5/8	138	70	90	235	83	140	27	23	46	54	35	11
3	150	210	177	5/8	152	70	90	247	89	146	27	23	49	67	50	11
4	150	455	216	5/8	191	70	90	287	104	167	16	23	56	88	74	14
5	150	805	246	3/4	216	70	90	313	117	181	16	23	64	113	97	14
6	150	1162	273	3/4	241	70	90	335	130	189	19	23	72	139	123	17
8	150	2772	334	3/4	298	70	90	387	158	210	19	23	73	178	169	17

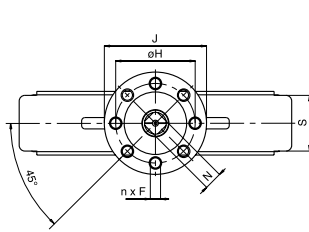
Type 568 Bare Shaft with Hand Lever

Inch	psi	Cv-value	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
2	150	103	150	5/8	121	265	77	134	54	45	106	205	150	40	
2½	150	154	170	5/8	138	277	83	140	54	46	106	205	160	54	35
3	150	210	177	5/8	152	289	89	146	54	49	106	205	175	67	50
4	150	455	216	5/8	191	326	104	167	55	56	106	255	244	88	74
5	150	805	246	3/4	216	353	117	181	55	64	106	255	272	113	97
6	150	1162	273	3/4	241	374	130	189	55	72	106	255	297	139	123
8	150	2772	334	3/4	298	435	158	210	67	73	140	408	360	178	169

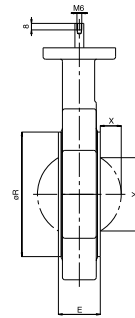
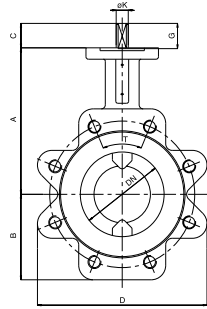
Type 568 Bare Shaft with Gear Operator

Inch	psi	Cv-value	d2	D	D1	D3	H	H1	H2	H3	L	L1	L2	L3	L4	Q1
2	150	103	150	5/8	121	160	279	77	134	68	45	120	132	236	150	40
2½	150	154	170	5/8	138	160	291	83	140	68	46	120	132	236	160	54
3	150	210	177	5/8	152	160	303	89	146	68	49	120	132	236	175	67
4	150	455	216	5/8	191	160	339	104	167	68	56	120	132	236	244	88
5	150	805	246	3/4	216	160	366	117	181	68	64	120	132	236	272	113
6	150	1162	273	3/4	241	160	387	130	189	68	72	120	132	236	297	139
8	150	2772	334	3/4	298	160	436	158	210	68	73	120	132	236	360	178

Type 365 HP Lug Style Butterfly Valve



DN 125 - 300

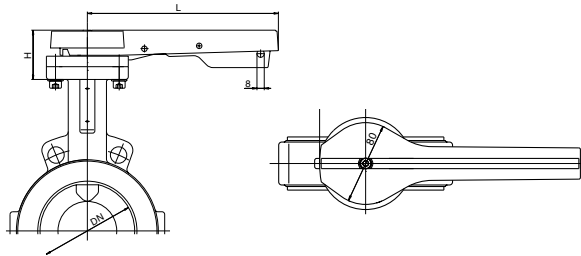


Valve Dimensions in mm

Size inch	Size mm	Type	A	B	C	D	E	n x F	G	ØH	ØJ	ØK	ØR	S	X	Y	weight (lbs)
2	63	F05	135	65	26	160	43	8 x Ø7	27	50	65	14	95	38	5	31	7.50
2½	75	F07	150	85	27	176	46	4 x Ø9	28	70	90	14	120	41	11.5	52	9.25
3	90	F07	160	93.5	29	188	46	4 x Ø9	30	70	90	14	132	41	18.5	69	13.45
4	110	F07	180	105	29	210	52	4 x Ø9	30	70	90	14	153	45	26.5	91	17.42
6	160	F07	210	140	46	269	56	4 x Ø9	47	70	90	20	209	50	48.5	143	29.76
8/9	225	F12	240	170	65	360	60	8 x Ø13	66	125	150	24	259	56	71.5	196	51.37
10	250	F12	275	205	65	435	68	8 x Ø13	66	125	150	28	309	64	91.5	243	70.76
12	315	F12	310	250	65	500	78	8 x Ø13	66	125	150	35	364	74	111.5	293	110.01

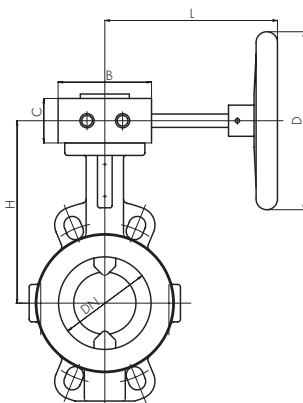
Note: Slotted locating holes for wafer and lugged version according following flange accommodation:

DIN PN 10/16 (DN40-DN150), DIN PN 10 (DN200-DN300), ANSI 150 (DN40-DN300), JIS 10 K (DN40-DN150).



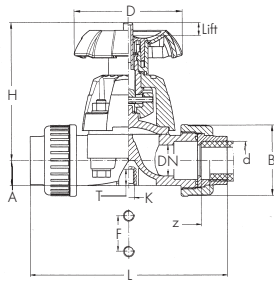
Lever Dimensions

Size	L	H
2	210	51
2½	300	54
3	300	54
4	300	54



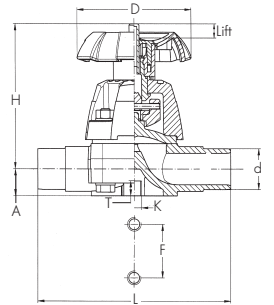
Gear Operator Dimensions

Size mm	Size inch	ISO	B	C	D	H	J	L	Weight lbs.
63	2	F05	102	68	200	164	29	187	8.16
75	2½	F07	102	68	200	179	29	187	8.16
90	3	F08	102	68	200	189	29	187	8.16
110	4	F09	102	68	200	209	29	187	8.16
160	6	F11	102	68	200	239	29	187	8.16
200/225	8	F12	138	89	250	280.5	40.5	203	21.38
250	10	F12	138	89	250	315.5	40.5	203	21.38
315	12	F12	138	89	315	350.5	40.5	209	21.38



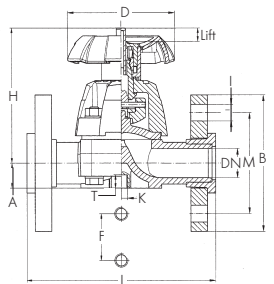
Type 314 Diaphragm Valve

Inch size	A inch	B inch	D inch	F inch	K mm	H inch	L inch	Z inch	Lift inch	Weight lbs.
1/2	0.551	1.693	3.15	0.984	M6	3.54	5.35	3.780	0.315	0.794
3/4	0.689	2.087	3.15	0.984	M6	4.02	6.30	4.488	0.433	1.213
1	0.827	2.363	3.70	0.984	M6	4.67	6.93	4.803	0.512	1.896
1¼	1.004	2.913	4.61	1.772	M8	4.96	7.80	5.512	0.630	2.646
1½	1.280	3.268	4.61	1.772	M8	5.47	9.13	6.299	0.827	3.528
2	1.535	4.055	5.98	1.772	M8	6.77	10.55	7.480	1.102	6.174



Type 315 Diaphragm Valve (CPVC)

Inch size	A Inch	D Inch	F Inch	K mm	H inch	L inch	T inch	Lift inch	Weight lbs.
1/2	0.55	3.15	0.98	M6	3.54	5.62	0.47	0.31	0.66
3/4	0.69	3.15	0.98	M6	4.02	6.30	0.47	0.43	0.95
1	0.83	3.70	0.98	M6	4.67	6.83	0.47	0.51	1.63
1¼	1.00	4.61	1.77	M8	4.96	7.40	0.59	0.63	2.05
1½	1.28	4.61	1.77	M8	5.47	8.07	0.59	0.83	2.77
2	1.53	5.98	1.77	M8	6.77	8.86	0.59	1.10	5.22



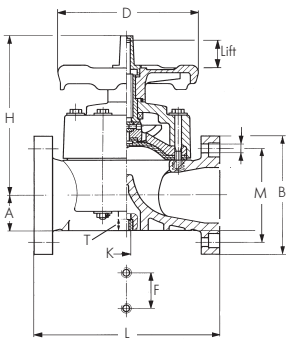
Type 317 Diaphragm Valve

Inch size	A inch	D inch	H inch	L inch	L* inch (CPVC)	M inch	I inch	# bolt holes	F inch	K** mm	T inch	Lift inch
1/2	0.55	3.15	3.54	5.12	5.91	2.38	0.55	4	0.98	M6	0.47	0.315
3/4	0.69	3.15	4.02	5.91	6.54	2.75	0.55	4	0.98	M6	0.47	0.433
1	0.83	3.70	4.67	6.30	7.09	3.13	0.55	4	0.98	M6	0.47	0.512
1¼	1.00	4.61	4.96	7.09	7.56	3.50	0.71	4	1.77	M8	0.59	0.630
1½	1.28	4.61	5.47	7.87	8.27	3.88	0.71	4	1.77	M8	0.59	0.827
2	1.54	5.98	6.77	9.06	9.06	4.75	0.71	4	1.77	M8	0.59	1.102
2½	1.81	5.98	7.91	11.42	—	5.50	0.71	4	2.76	M8	0.59	1.181
3	2.24	10.63	10.43	12.20	—	6.00	0.71	4	4.72	M12	0.91	1.575
4	2.72	10.63	11.97	13.78	—	7.50	0.71	8	4.72	M12	0.91	1.969
6	4.25	15.75	17.20	18.90	—	9.50	0.87	8	3.94	M12	0.91	2.756

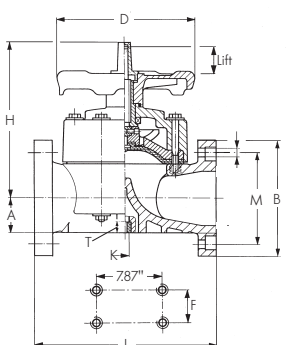
*Serrated face is raised approximately 1/16", with loose CPVC flange ring

**metric thread

1/2"–2½"
[2½" is socket body/spigot
flange adapter]



3"–4"



Inch size	B (inch)			Weights (lbs.)		
	PVC/PP	CPVC	PVDF	PVC	PP	PVDF
1/2	3.74	3.50	3.50	1.0	1.1	1.2
3/4	4.13	3.88	3.86	1.5	1.8	2.1
1	4.53	4.25	4.25	2.2	2.6	2.9
1¼	5.51	4.63	4.61	3.5	4.6	5.1
1½	5.91	5.00	5.00	4.2	5.3	6.0
2	6.50	6.00	5.98	7.1	7.9	9.3
2½	7.28	—	7.01	9.5	10.4	12.6
3	7.87	—	7.87	21.4	18.1	24.0
4	9.02	—	9.02	30.0	25.4	33.5
6	11.22	—	11.22	59.5	55.1	68.3

Note:

Body dimensions of PP and PVDF versions vary slightly from these listed PVC dimensions.

See Engineering Handbook for exact information.

For dimensions and drawings of Diaphragm Valve Type 319 please refer to our Engineering Handbook.

Pressure Regulating Valves



GF Piping Systems offers three types of pressure regulating valve designs that either reduce, retain or relieve pressure. These valves provide highly accurate and stable pressure control irrespective of fluctuations of inlet pressure or changes in flow demand. The valve body works by balancing an adjustable spring force that pushes downward onto a diaphragm against the force of the process fluid pushing upward.

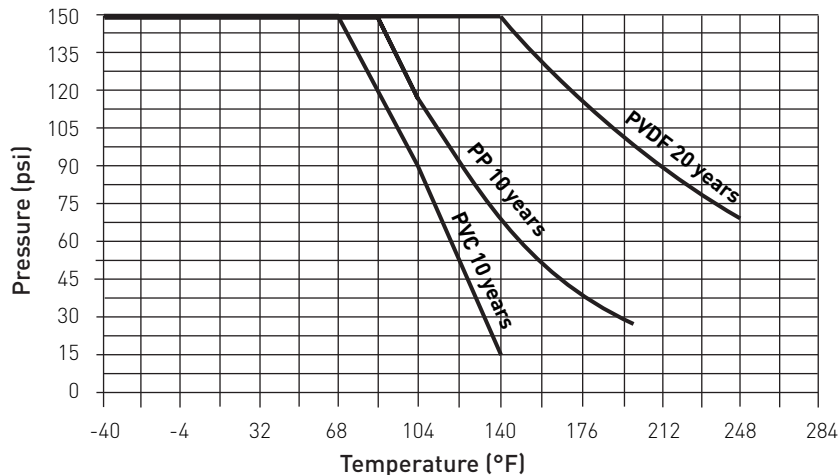
- Adjusted by an adjustment screw and secured with a locknut
- Mechanic valve parts are isolated from the process fluid

Size range	Pressure Range
3/8 – 2	7 to 150 psi
2½ – 3	14 to 90 psi
4	14 to 60 psi

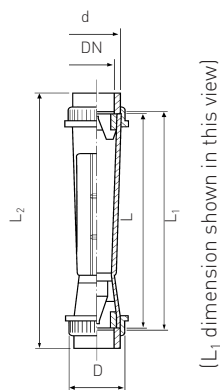
Valve Bodies	Temperature Range	
PVC	32°F – 140°F	0°C – 60°C
Beta Polypropylene	-4°F – 176°F	-20°C – 80°C
PVDF/PVDF-HP	-4°F – 248°F	-20°C – 120°C

Diaphragm: EPDM or PTFE
Seals: EPDM or FPM (FPM is supplied on PTFE Diaphragm products)
End Connections: Threaded (NPT), Flanged, Socket Union, Spigot (socket fusion), Butt (IR or BCF)
Fusion Connections: Socket Fusion, IR Plus, BCF Plus

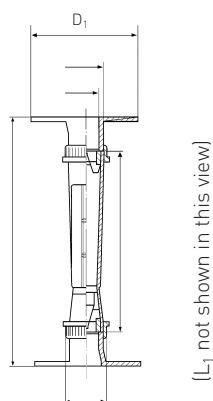
Working Pressure



Dimensions for Industrial Rotameters



Socket/Threaded



Flanged

Short Version

Size		Tube length	Socket lay- ing length	Socket/ Thread	Flange	Nut O.D.	Flange O.D.
d/DN mm	ID inch	L inch	L ₁ inch	L ₂ inch	L ₃ inch	D inch	D ₁ inch
16/10	3/8	6.5	6.7	7.4	-	1.38	-
16/10	3/8	6.5	6.7	7.4	-	1.38	-
16/10	3/8	6.5	6.7	7.4	-	1.38	-
20/16	1/2	7.3	7.5	8.2	11.83	1.69	1.73
20/16	1/2	7.3	7.5	8.2	11.83	1.69	1.73
20/16	1/2	7.3	7.5	8.2	11.83	1.69	1.73
32/25	1	7.9	8.1	9.0	17.96	2.36	2.48
32/25	1	7.9	8.1	9.0	17.96	2.36	2.48
32/25	1	7.9	8.1	9.0	17.96	2.36	2.48
32/25	1	7.9	8.1	9.0	17.96	2.36	2.48

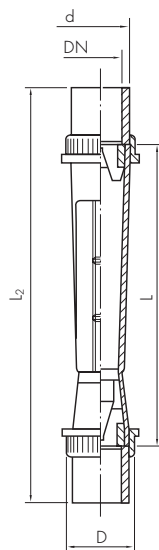
Standard Version

Size		Tube length	Socket lay- ing length	Socket/ Thread	Flange	Nut O.D.	Flange O.D.
d/DN mm	ID inch	L inch	L ₁ inch	L ₂ inch	L ₃ inch	D inch	D ₁ inch
32/25	1	13.2	13.4	14.3	17.96	2.36	2.48
32/25	1	13.2	13.4	14.3	17.96	2.36	2.48
50/40	1½	13.2	13.4	14.5	18.74	3.27	3.23
50/40	1½	13.2	13.4	14.5	18.74	3.27	3.23
63/50	2	13.2	13.4	14.7	18.74	4.06	4.02
63/50	2	13.2	13.4	14.7	18.74	4.06	4.02
75/63	2½	13.2	13.5	14.8	18.54	4.80	4.80
75/63	2½	13.2	13.5	14.8	18.54	4.80	4.80

Dimensions for UPW Rotameters

BCF/IR fusion ends

d/DN mm	Tube length L inch	BCF/IR L ₂ inch	PVDF Nut O.D. D inch
32/25	7.9	13.4	2.36
50/40	13.2	19.7	3.27
63/50	13.2	19.8	4.06
75/63	13.2	17.8	4.80



Valve Application Assistance Form

Complete all sections.

Fax this form to: GF Piping Systems, Technical Service Department at (714) 731-8294

Date: _____

End-User Company: _____ Contact: _____

Address _____

City: _____ State: _____ Zip: _____

Phone: _____ Ext: _____ Fax: _____

Name of Project: _____

GF Distributor: _____ Contact: _____ Tel: _____

Description of Application: _____

Valve Style: ☐ Ball ☐ Diaphragm ☐ Butterfly ☐ Angle Seat ☐ PRV ☐ Metering

Accessories: ☐ Lock-Out ☐ Limit Switches ☐ Gear Operator ☐ Chain Wheel

Body Material: ☐ PVC ☐ CPVC ☐ PP ☐ PVDF ☐ Size: _____

Seal Material: ☐ FPM ☐ EPDM ☐ NBR ☐ PTFE ☐ Other: _____

If Actuated: ☐ Electric Supply Voltage: _____ Approximate number of cycles per hour? _____

☐ Pneumatic: Air Supply Pressure? _____ psig Pilot Valve: ☐ 3-Way or ☐ 4-Way

☐ Fail Safe: ☐ FC or ☐ FO ☐ Double-Acting

☐ Modulating Input Signal? _____ What is the set point? _____

Accessories: ☐ Manual-Override ☐ Limit Switches ☐ Stroke Limiter ☐ Speed Control ☐ Other: _____

Fluid: _____ Concentration: _____ Solids Content: _____ % _____ Particle Size _____

Ambient temp: Min: _____ °F Max: _____ °F Process Temp: min: _____ °F Max: _____ °F Type: _____ °F

Working Press: Min: _____ psig Max: _____ psig Type: _____ Flow Rate: ☐ gpm ☐ lpm

Installation: ☐ Indoor or ☐ outdoor Exposed to sunlight: ☐ Yes ☐ No ☐ On the Wall or ☐ Suspended

For GF Use Only

Required changes in application _____

Unsure of your application? Ask about our Performance Purchase Order Program.