

# Condensed Valve Catalog

Materials: PVC, CPVC, PP, PPn, ABS, PVDF

Sizes: 1/4" to 24"

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



# Did you know that we...

- + can adapt a full line of third-party actuators to our valves?
- + can adapt our comprehensive actuator line to non-GF valves?
- + can install a variety of valve accessories to meet most industry specifications such as explosion-proof and hazardous area?

## Yes, we can.

For more information, please contact your nearest GF distributor.



# 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	+	+	+/0	+/0	+	+	-	0	0	EPDM, FPM, PTFE, NBR
Ball valve	+	0/-	+	+	+/0	+	+	+	+	EPDM, FPM
Y-Globe valve	+	0	+	0	+	0	-	0	-	PE, PTFE
Butterfly valve	+	+/0	+/0	+	+/0	+	-	+	+	EPDM, FPM

+ = recommended

0 = conditionally suitable

- = not recommended











Description	Type Number		Range of Nominal Sizes					Available Seal Materials	Pressure in psi (water 68°F)
	Manually Operated	Actuated	Material of Base						
			PVC	CPVC	PP	PVDF	ABS		
Ball valve	546	104, 107, 131-133, 231-233	¾"-4"	¾"-4"	¾"-4"	¾"-4"	¾"-4"	EPDM, FPM	150, 232 psi*
Ball valve	375	—	¾"-4"	½"-2"	½"-2"	—	—	EPDM, FPM	150, 232 psi*
Ball valve COLORO	353, 355	—	½"-2"	—	—	—	—	EPDM, FPM	150, 232 psi*
3-way ball valve (vertical in PVC, ABS only)	543	185-188, 125-128, 285-288	¾"-2"	¾"-2"	¾"-2"	¾"-2"	¾"-2"	EPDM, FPM	150 psi**
Control ball valve	546	Optional	½"-2"	½"-2"	½"-2"	½"-2"	—	EPDM, FPM	150, 232 psi*
Metering ball valve	523	Optional	¾" & ½"	¾" & ½"	¾" & ½"	¾" & ½"	on request	EPDM, FPM	150 psi
Laboratory ball cock	324	—	¼"	—	—	—	—	EPDM	150 psi
Diaphragm valve	514	Diastar 6,10/10 Plus	½"-2"	½"-2"	½"-2"	½"-2"	½"-2"	EPDM, FPM, PTFE	150 psi** †
	515	Diastar 10/10 Plus	—	—	½"-2"	½"-2"	½"-2"	EPDM, FPM, PTFE	150 psi** †
	517	Diastar 10/10 Plus	½"-2"	½"-2"	½"-2"	½"-2"	½"-2"	EPDM, FPM, PTFE	150 psi**
	317	Diastar 025	2½"-6"	2½"-4"	2½"-6"	2½"-6"	—	EPDM, FPM, PTFE	150 psi**
Diaphragm valve	519	Diastar 10/10 Plus	20×20 mm – 110×63 mm PVDF, PP				—	EPDM, FPM, PTFE	150 psi
Butterfly valve	567	140, 240	2"-16"	2"-12"	2"-24"	2"-12"	2"-8"	EPDM, FPM, PTFE	150 psi
Butterfly valve	578	144, 244	2"-12"	2"-12"	2"-12"	2"-12"	2"-12"	EPDM, FPM, PTFE	150 psi
Butterfly valve	365	Optional	2"-12"	coated metal body with PFA coated disk, lug style			—	PTFE, FPM	150 psi
Butterfly valve	563	Optional	2"-12"	—	—	—	—	EPDM	150, 90 psi
Butterfly valve	VFA	Optional	2½"-8"	—	—	—	—	EPDM	150, 90 psi
Cone check valve	561, 562	—	¾"-4"	¾"-4"	¾"-4"	¾"-4"	¾"-4"	EPDM, FPM	150, 232 psi
Vent/Bleed valve	591, 595	—	¾"-4"	¾"-4"	¾"-4"	¾"-4"	¾"-4"	EPDM, FPM	—
Wafer check valve	369	—	1½"-12"	—	Optional	Optional	—	EPDM, FPM	90 psi
Y-Check valve	304	—	½"-3"	—	Optional	—	—	EPDM, FPM	150 psi
Y-Globe valve	301	—	½"-3"	—	—	—	—	PE, PTFE	150 psi
Line strainer	306	—	½"-3"	—	Optional	—	—	EPDM, FPM	150 psi
Needle valve	522	—	—	—	½"	¼"-½"	—	PTFE	150 psi

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

\*\* Reduced pressure ratings on 4" Diastar (120 psi), 6" Diastar (90 psi) and 6" Type 317 (105 psi)

† 232 pressure rating on special configuration

# Manual Valves

					
	<b>Ball Valve Type 546</b>	<b>Ball Valve Type 375</b>	<b>COLORO Compact Ball Valve Type 355</b>	<b>COLORO Ball Valve Type 353</b>	<b>Metering Ball Valve Type 523</b>
<b>End Connections</b> 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 G: wafer	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.	True union ball valve, O-ring seat backing provides constant torque. PTFE seats. Tested 10,000 cycles with clean fluids. True union ends, NSF approved. (CPVC & PPn 1/2"-2")	Unrestricted bore for optimum flow. Sturdy monobloc construction resists field breakage. Short laying length and low profile require minimum installation space. PTFE seats. O-ring seat backing provides constant torque. True union ends.	Unrestricted bore for optimum flow. Sturdy monobloc construction resists field breakage. Short laying length and low profile require minimum installation space. PTFE seats. O-ring seat backing provides constant torque.	Precise control at low flow conditions. Indicator scale allows fine adjustment. PTFE seats.
<b>Material</b>	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP-n	PVC	PVC	PVC, CPVC, PP, PVDF (ABS, on request)
<b>Seal Material</b>	EPDM, FPM	EPDM, FPM	EPDM	EPDM	EPDM, FPM
<b>Size Range</b>	3/8"-4"	1/2"-6"	1/2"-2"	1/2"-2"	3/8", 1/2"
<b>End Connection</b>	A B D E	A B D	A B	A	A B D E
<b>Body and Seal Materials</b> <b>PVC</b> Polyvinyl Chloride <b>CPVC</b> Chlorinated Polyvinyl Chloride <b>PP</b> Polypropylene <b>PVDF</b> Polyvinylidene fluoride <b>ABS</b> Acrylonitrile Butadiene Styrene <b>FPM</b> Fluorine Rubber <b>EPDM</b> Ethylene Propylene Rubber <b>PTFE</b> Polytetrafluoroethylene FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers.					
	<b>Diaphragm Valve Type 514</b>	<b>Diaphragm Valve Type 515</b>	<b>Diaphragm Valve Type 517</b>	<b>Diaphragm Valve Type 317</b>	<b>Zero Static Diaphragm Valve Type 519</b>
	Ergonomic, easily removable handwheel. Standard lockable handle. Suitable for slurries and abrasive media.	Ergonomic, easily removable handwheel. Standard lockable handle. Suitable for slurries and abrasive media. Excellent for throttling control.	Ergonomic, easily removable handwheel. Standard lockable handle. Suitable for slurries and abrasive media. Excellent for throttling control.	Ergonomic, easily removable handwheel. Optional lockable handle. Suitable for slurries and abrasive media. Excellent for throttling control.	Shortest possible branch geometry for zero dead leg. Molded body. High purity versions available.
<b>Material</b>	PVC, CPVC, PP, PVDF, ABS	PP, PP-n, PVDF, ABS	PVC, CPVC, PP, PP-n, PVDF	PVC, CPVC, PP, PVDF	PP, PP-n, PVDF
<b>Seal Material</b>	EPDM, FPM, PTFE/EPDM, PTFE/FPM	EPDM, FPM, PTFE/EPDM, PTFE/FPM	EPDM, FPM, PTFE/EPDM, PTFE/FPM	EPDM, FPM, PTFE/EPDM, PTFE/FPM	EPDM, FPM, PTFE/EPDM, PTFE/FPM
<b>Size Range</b>	1/2"-2"	1/2"-2"	1/2"-2"	2 1/2"-6"	20×20-100×63mm
<b>End Connections</b>	A B E	E	D	D	E

# Manual Valves









3-Way Ball Valve Type 543	Butterfly Valve Type 578	HP Butterfly Valve Type 365	Butterfly Valve Type 563 Aqua	Butterfly Valve VFA	Butterfly Valve Type 567
Vertical and horizontal styles available. L and T-ports for diverting of mixing fluid. Long working life. O-ring seat backing provides constant torque. PTFE seats.	Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. 3/16" stainless steel inserts.	PTFE-lined lug style butterfly valve with PFA-encapsulated disc. Manufactured for high-purity applications. Actuated versions available.	Wafer style valve, double eccentric design allows for lower operating torque and less wear. Glass filled polypropylene outer body.	Low torque valve specifically for water applications.	Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.
PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS	Coated ductile iron	PVC	PVC	PVC, CPVC, PP, PVDF, ABS
EPDM, FPM	EPDM, FPM, PTFE	PTFE/PFA	EPDM	EPDM	EPDM, FPM, PTFE
3/8"-2"	2"-12"	2"-12"	2"-12"	2 1/2"-8"	2"-24"
A B D E	F	F	G	G	G











Y-Globe Valve Type 301	Ventilating and Bleed Valve Type 591/595	Y-Check Valve Type 304	Cone Check Valve Type 561 Type 562 (spring)	Wafer Check Valve Type 369	Line Strainer Type 306
Good flow characteristics. Bonnet nut facilitates exchange of components. Easy replacement of disc and seat assembly.	Used where containers and pipes have to be aerated and/or vented. Especially good for avoiding vacuums and discharging air pockets.	Excellent flow characteristics. Minimum pressure loss. Mount horizontally or vertically. Efficient at low working pressures.	Check for vertical or horizontal installation. Can be used as foot valve when used with Type 050 screen. Good sealing at low head pressure.	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.	Protects equipment from solid particles. Screens available in four mesh sizes. Transparent PVC enables easy visibility of screen collection.
PVC (transparent)	PVC, CPVC, PP, PVDF, ABS	PVC (transparent)	PVC, CPVC, PP, PVDF, ABS	PVC (PP & PVDF optional)	PVC (transparent)
PE, PTFE	EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM
1/2"-3"	3/8"-4"	1/2"-3"	3/8"-4"	1 1/2"-12"	1/2"-3"
C	A B D E	C	A B D E	D	C









# Manual Valves

<p><b>End Connections</b>  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</p>				
	<p><b>Needle Valve Type 522, Angle and Globe Body Styles</b></p>	<p><b>Laboratory Ball Cock Valve Type 324</b></p>	<p><b>Rotameters</b></p>	<p><b>Type 546 True Union Ball Valve Pre-assembled to a Solvent Cement Socket Tee</b></p>
	<p>Precise control with fine adjustment. Broad chemical resistance with rugged construction. Working pressures up to 200 psi at 73°F.</p>	<p>Specially designed for laboratory use. Long working life. PTFE seats.</p>	<p>All plastic construction. For water, air and corrosive applications. Flow ranges from 0.01–132 GPM. Accuracy 3% of full scale. Available with high/low limits and 4–20mA output.</p>	<p>Many other options and size configurations available within Type 546 ball valve, including FPM seals, PP and PVDF material.</p>
<b>Material</b>	PP, PVDF	PVC	PSU, PA or PVC tube PVC, CPVC, PP, PPn, ABS, PVDF ends	PVC, CPVC, PP
<b>Seal Material</b>	PTFE	EPDM	EPDM, FPM	EPDM, FPM
<b>Size Range</b>	¼", ⅜", ½"	¼"	⅜"–2½"	1"× ½" – 8"× 2"
<b>End Connections</b>	B	A B	A B D E	A E
<p><b>Body and Seal Materials</b>  <b>PVC</b>  Polyvinyl Chloride  <b>CPVC</b>  Chlorinated Polyvinyl Chloride  <b>PP</b>  Polypropylene  <b>PVDF</b>  Polyvinylidene fluoride  <b>ABS</b>  Acrylonitrile Butadiene Styrene  <b>FPM</b>  Fluorine Rubber  <b>EPDM</b>  Ethylene Propylene Rubber  <b>PTFE</b>  Polytetrafluoroethylene  FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers.</p>				
	<p><b>Pressure Reducing Valve Type 582</b></p>	<p><b>Pressure Retaining Valve Type 586</b></p>		
	<p>High Precision, Modular, 100% molded design insures consistent quality</p>	<p>High Precision, Modular, 100% molded design insures consistent quality</p>		
<b>Functions</b>	Pressure Reducing Valve (regulating)	Pressure Retaining Valve (back pressure)		
<b>Material</b>	PVC, CPVC, PP, PVDF	PVC, CPVC, PP, PVDF		
<b>Seal Material</b>	PTFE with FPM or EPDM	PTFE with FPM or EPDM		
<b>Size Range</b>	½"–2"	½"–2"		
<b>End Connections</b>	A B D E	A B D E		

## Actuated Valves

				
<b>End Connections</b> 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	<b>Ball Valve with Electric Actuator Type 104</b>	<b>Ball Valve with Electric Actuator Type 107</b>	<b>Ball Valve with Electric Actuator Type 130-133</b>	<b>Ball Valve with Pneumatic Actuator Type 231-233</b>
<b>Actuator Types</b>	EA 04	EA 11	EA 21/EA 31	PA 11/PA 21/PA 30/PA 35/PA 40/PA 45
<b>Functions</b>	Open/Close	Open/Close	Open/Close Process control	Open/Close Process control
<b>Control Time</b>	9S/90° at nom. torque	5S/90° at nom. torque	5S/90° at nom. torque	1 sec
<b>Voltage/Air Pressure</b>	110, 220, 24V, 50-60Hz	110-220V, 50-60Hz	24/110-220V, 50-60Hz	101.5 psi max
<b>Material</b>	PVC, CPVC, ABS	PVC, CPVC, ABS	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS
<b>Seal Material</b>	EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM
<b>Size Range</b>	¾"-2"	¾"-2"	¾"-4"	¾"-4"
<b>End Connection</b>	A B D	A B D	A B D E	A B D E
<b>Body and Seal Materials</b> <b>PVC</b> Polyvinyl Chloride <b>CPVC</b> Chlorinated Polyvinyl Chloride <b>PP</b> Polypropylene <b>PVDF</b> Polyvinylidene fluoride <b>ABS</b> Acrylonitrile Butadiene Styrene <b>FPM</b> Fluorine Rubber <b>EPDM</b> Ethylene Propylene Rubber <b>PTFE</b> Polytetrafluoroethylene FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers.				
	<b>Control Ball Valve made from Type 546</b>	<b>3-way Ball Valve with Pneumatic Actuator Type 285-288</b>	<b>3-way Ball Valve with Electric Actuator Type 185-187</b>	<b>3-way Ball Valve with Electric Actuator Type 125-128</b>
<b>Actuator Types</b>	Electric/Pneumatic	PA11/21	EA21	EA11
<b>Functions</b>	Flow control	Fail Safe to Close Fail Safe to Open Double Acting Process control	On/Off Process control	On/Off
<b>Control Time</b>	Positioner	1 sec.	5S/90° at nom. torque	5S/90° at nom. torque
<b>Voltage/Air Pressure</b>	24/110-220V (electric), 105 psi (pneumatic)	105 psi max	24/110-220V, 50-60Hz	100-220V, 50-60Hz
<b>Material</b>	PVC, CPVC, PP, PVDF	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS	PVC
<b>Seal Material</b>	EPDM, FPM	EPDM, FPM	EPDM, FPM	EPDM, FPM
<b>Size Range</b>	½"-2"	¾"-2"	¾"-2"	¾"-2"
<b>End Connections</b>	A B D E	A B D E	A B D E	A B D

# Actuated Valves

<p><b>End Connections</b>            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            G: wafer</p>					
	<p><b>Butterfly Valve with Electric Actuator Type 140</b></p> <p>Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.</p>	<p><b>Butterfly Valve with Electric Actuator Type 144</b></p> <p>Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Stainless steel inserts.</p>	<p><b>Butterfly Valve with Pneumatic Actuator Type 240</b></p> <p>Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.</p>	<p><b>Butterfly Valve with Pneumatic Actuator Type 244</b></p> <p>Lug style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Stainless steel inserts.</p>	
	<p><b>Actuator Types</b></p>	EA31, EA42	EA31, EA42	PA30, PA35, PA40, PA45, PA50, PA55	PA30, PA35, PA40, PA45, PA50, PA55
	<p><b>Functions</b></p>	Open/Close Process control	Open/Close Process control	Fail Safe to Close Fail Safe to Open Double Acting	Fail Safe to Close Fail Safe to Open Double Acting
	<p><b>Control Time</b></p>	EA31: 15 sec. EA42: 25 sec.	EA31: 15 sec. EA42: 25 sec.	0.5–1 sec	0.5–1 sec.
	<p><b>Voltage/Air Pressure</b></p>	24/110–220V, 50–60Hz	24/110–220V, 50–60Hz	105 psi max.	105 psi max
	<p><b>Material</b></p>	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS	PVC, CPVC, PP, PVDF, ABS
	<p><b>Seal Material</b></p>	EPDM, FPM, PTFE/FPM	EPDM, FPM, PTFE/FPM	EPDM, FPM, PTFE/FPM	EPDM, FPM, PTFE/FPM
	<p><b>Size Range</b></p>	2"–24"	2"–12"	2"–24"	2"–12"
	<p><b>End Connection</b></p>	G	F	G	F
<p><b>Body and Seal Materials</b>  <b>PVC</b>            Polyvinyl Chloride  <b>CPVC</b>            Chlorinated Polyvinyl Chloride  <b>PP</b>            Polypropylene  <b>PVDF</b>            Polyvinylidene fluoride  <b>ABS</b>            Acrylonitrile Butadiene Styrene  <b>FPM</b>            Fluorine Rubber  <b>EPDM</b>            Ethylene Propylene Rubber  <b>PTFE</b>            Polytetrafluoroethylene            FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers.</p>					
	<p><b>Butterfly Valve with Electric Actuator Type 563</b></p> <p>Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.</p>	<p><b>Butterfly Valve with Electric Actuator Type VFA</b></p> <p>Low-torque valve specifically for water applications.</p>	<p><b>Butterfly Valve with Pneumatic Actuator Type 563</b></p> <p>Wafer style valve, double eccentric design allows for lower operating torque and less wear. Wetted material matches piping system. Glass filled polypropylene outer body.</p>	<p><b>Butterfly Valve with Pneumatic Actuator Type VFA</b></p> <p>Low-torque valve specifically for water applications.</p>	
	<p><b>Actuator Types</b></p>	EA21, EA31, EA42	EA21, EA31, EA42	PA21, PA30, PA35, PA40, PA45, PA50, PA55	PA21, PA30, PA35, PA40, PA45, PA50, PA55
	<p><b>Functions</b></p>	Open/Close Process control	Open/Close Process control	Fail Safe to Close Fail Safe to Open Double Acting	Fail Safe to Close Fail Safe to Open Double Acting
	<p><b>Control Time</b></p>	EA21: 6 sec. EA31: 15 sec. EA42: 25 sec.	EA21: 6 sec. EA31: 15 sec. EA42: 25 sec.	0.5–1 sec	0.5–1 sec.
	<p><b>Voltage/Air Pressure</b></p>	24/110–220V, 50–60Hz	24/110–220V, 50–60Hz	105 psi max.	105 psi max
	<p><b>Material</b></p>	PVC	PVC	PVC	PVC
	<p><b>Seal Material</b></p>	EPDM	EPDM	EPDM	EPDM
	<p><b>Size Range</b></p>	2"–12"	2½"–8"	2"–12"	2½"–8"
	<p><b>End Connections</b></p>	G	G	G	G



## Actuated Valves

<p><b>End Connections</b></p> <p>A: solvent cement socket</p> <p>B: NPT threads</p> <p>C: solvent cement spigot</p> <p>D: flanges</p> <p>E: socket, butt and spigot fusion ends available in PP and PVDF</p> <p>F: lug</p>				
	<p><b>Diaphragm Valve with DIASTAR 6 Pneumatic Actuator</b></p>	<p><b>Diaphragm Valve with DIASTAR 10 and 10Plus Pneumatic Actuator</b></p>	<p><b>Diaphragm Valve with DIASTAR 025 Pneumatic Actuator</b></p>	<p><b>Zero Static Valve with DIASTAR 10 and 10Plus Pneumatic Actuator High Purity</b></p>
	<p>Compact, lightweight, and economical. Preloaded springs for safety.</p>	<p>Rugged GF PP actuation, Lightweight, compact design. Preloaded springs for safety. Long life, excellent throttling characteristics.</p>	<p>Rugged GF PP actuation, Lightweight, compact design. Preloaded springs for safety. Long life, excellent throttling characteristics.</p>	<p>Rugged GF PP actuation, Lightweight, compact design. Preloaded springs for safety. Long life, excellent throttling characteristics.</p>
<p><b>Actuator Types</b></p>	<p>DIASTAR 6</p>	<p>DIASTAR 10/10 Plus</p>	<p>DIASTAR 025</p>	<p>DIASTAR 10/10 Plus</p>
<p><b>Functions</b></p>	<p>Fail Safe to Close</p>	<p>Fail Safe to Close Fail Safe to Open Double Acting</p>	<p>Fail Safe to Close Fail Safe to Open Double Acting</p>	<p>Fail Safe to Close Fail Safe to Open Relief</p>
<p><b>Control Time</b></p>	<p>approx 3 sec</p>	<p>approx 3 sec</p>	<p>approx 3 sec</p>	<p>approx 3 sec</p>
<p><b>Voltage/Air Pressure</b></p>	<p>105 psi max.</p>	<p>105 psi max.</p>	<p>105 psi max.</p>	<p>105 psi max.</p>
<p><b>Material</b></p>	<p>PVC, CPVC, ABS</p>	<p>PVC, CPVC, PP, PP-n, PVDF, ABS</p>	<p>PVC, CPVC, PP, PVDF</p>	<p>PP, PP-n, PVDF</p>
<p><b>Seal Material</b></p>	<p>EPDM</p>	<p>EPDM, FPM, PTFE/ EPDM, PTFE/FPM</p>	<p>EPDM, FPM, PTFE/ EPDM, PTFE/FPM</p>	<p>EPDM, FPM, PTFE/ EPDM, PTFE/FPM</p>
<p><b>Size Range</b></p>	<p>½"–2"</p>	<p>½"–2"</p>	<p>2½"–6"</p>	<p>20×20–110×63 mm</p>
<p><b>End Connection</b></p>	<p>A B D</p>	<p>A B D E</p>	<p>D</p>	<p>E</p>
<p><b>Body and Seal Materials</b></p> <p><b>PVC</b> Polyvinyl Chloride</p> <p><b>CPVC</b> Chlorinated Polyvinyl Chloride</p> <p><b>PP</b> Polypropylene</p> <p><b>PVDF</b> Polyvinylidene fluoride</p> <p><b>ABS</b> Acrylonitrile Butadiene Styrene</p> <p><b>FPM</b> Fluorine Rubber</p> <p><b>EPDM</b> Ethylene Propylene Rubber</p> <p><b>PTFE</b> Polytetrafluoroethylene</p> <p>FPM seals are made of Viton® or equal materials. Viton® is a registered trademark of DuPont Dow Elastomers.</p>				

## Actuated Accessories



### AS-i

AS-Interface (Actuator Sensor Interface) is an industrial standard, specially developed for field bus connection of actuators and sensors. The AS-Interface complements advanced fieldbus systems ideally and is used in place of conventional parallel cables. It is suitable for simple open-close applications.

### Position Feedback Limit Switches

For feedback of valve status. Available in dry contact (silver or gold), PNP, NPN, EExd.

### Pneumatic Positioners

Positioners for pneumatic ball, butterfly and diaphragm valves. 4–20 mA input signal.

### Positioner Type PE25

Can be internally mounted into existing GF electric actuators to provide functions. 4–20 mA or 0–10V input signal.



### Pilot Solenoid Valve

On/Off control for pneumatic valves. 100% duty cycle rating. PV 94 and PV 95 for direct mount. MNL532 and 5470 for Namur mount

### Accessories

Manual override  
Fail Safe Unit  
Limit switches  
Intermediate position for 3-way valves  
Potentiometer  
Speed Control  
Heating Element  
Positioner  
Stroke Limiter

# The New Pressure Regulating Valve and the New 578 Valve

The innovative modular 5 series pressure regulating valve (PRV) has a modular design allows users to easily change configurations. The valve can be changed from a back-pressure valve to a reducing valve by simply changing out the cartridge. Springs can be added or removed to meet optimum pressure ranges. In addition, the modular design allows for easy and quick maintenance for scheduled shutdowns. An online tool is available, making sizing a breeze. All sizes are molded, which eliminates inconsistencies found in machined valves. The Type 586 is the pressure-retaining or back-pressure valve; it maintains back pressure and can act as a pressure relief valve. The Type 582 valve is the pressure reducing version.

- No re-torquing needed
- Modular
- Online tool makes sizing a breeze
- 100% molded design means consistent quality



The 578 butterfly valve has stainless steel threaded inserts allowing it to be installed in end-of-line service. This means maintenance can be performed on one side of the valve while having full pressure on the other. In addition, the valve has all the advantages of our double eccentric butterfly valves. The double eccentric design is superior to the traditional boot design because it has about half the required torque and is not susceptible to swelling over time. This all translates to a product that is more user-friendly and has a longer life span.



No problematic boot



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