



GP SERIES GENERAL PURPOSE BALL VALVE



GP AT A GLANCE	
Material:	316 Stainless Steel
Working Pressure:	6000 psig (413 bar)
Orifice:	0.406 in.
Flow Pattern:	Bi-directional
Actuation:	90°
Seat Material:	PEEK
End Connection Sizes:	1/2 in., 3/4 in.
End Connection Types:	Tube Fittings, FNPT

TEMPERATURE PRESSURE		
End Connections	D8, 8PF, 12PF	D12
Temperature, °F (°C)	Working Pressure, psig (bar)	
-40 (-40) to 100 (37)	6000 (413)	5800 (400)
150 (65)	5800 (400)	
200 (93)	5600 (386)	5600 (386)

1 FLOATING BALL DESIGN

- Upstream pressure assists sealing against the downstream seat
- Compensates for seat wear

2 LIVE-LOADED SEATS

- Improves sealing in high, low and dynamic pressure and flow conditions
- Fully supported seats improve cycle-life

3 PEEK SEATS

- PEEK seats for chemical compatibility and durability

4 STRAIGHT THROUGH FLOW PATH

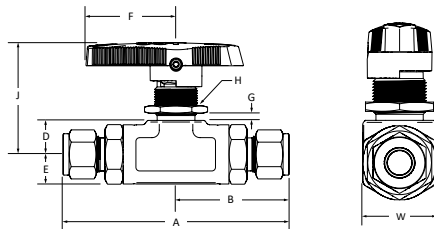
- Bi-directional flow
- Minimal pressure drop

5 DURABLE DIRECTIONAL HANDLE

- Stainless steel reinforced nylon handle for durability
- Indicates flow direction



Ordering Information



Connection		Part Number	Orifice	Cv	Dimensions, in. (mm)								
Type(s)	Size				A	B	D	E	F	G	H	J	W
Fractional Tube Fitting	1/2 in.	L28PLD8-316	0.406	6.42	4.68 (118.8)	2.34 (59.4)	0.70 (17.8)	0.61 (15.5)	1.86 (47.2)	7/16	29/32	2.31 (58.7)	1.22 (31.0)
	3/4 in.	L28PLD12-316	0.406	6.42	4.66 (118.4)	2.33 (59.2)	0.70 (17.8)	0.61 (15.5)	1.86 (47.2)	7/16	29/32	2.31 (58.7)	1.22 (31.0)
Female NPT	1/2 in.	L28PL8PF-316	0.406	6.42	4.30 (109.2)	2.15 (54.6)	0.70 (17.8)	0.61 (15.5)	1.86 (47.2)	7/16	29/32	2.31 (58.7)	1.22 (31.0)
	3/4 in.	L28PL12PF-316 ¹	0.406	6.42	4.50 (114.2)	2.25 (57.1)	0.70 (17.8)	0.61 (15.5)	1.86 (47.2)	7/16	29/32	2.31 (58.7)	1.22 (31.0)

¹ Not recommended for panel mounting

(Basic Ordering Number)



L28 PL D8 -316

Options



-LD -RD



VALVE DESIGN

L28 2-Way (Low-Temperature)



SEATS

PL PEEK



OPTIONS¹

HANDLES

(Blank) Black
-RD Red
-NH No Handle

OTHER OPTIONS

-LD Locking Hardware



INLET/OUTLET TYPE & SIZE

D8 1/2 in. Duolok® Tube Fitting
D12 3/4 in. Duolok® Tube Fitting
8PF 1/2 in. Female NPT
12PF 3/4 in. Female NPT



BODY MATERIAL

-316 316 SS

¹Add options' designators to the end of the Basic Ordering Number in alphabetical order.

Actuator Brackets & Couplings

Actuator brackets and couplings are available for ISO 5211 compliant actuators. Actuator kits contain the actuator bracket, plate, coupling and fasteners required to install the actuator bracket and connect to the actuator.



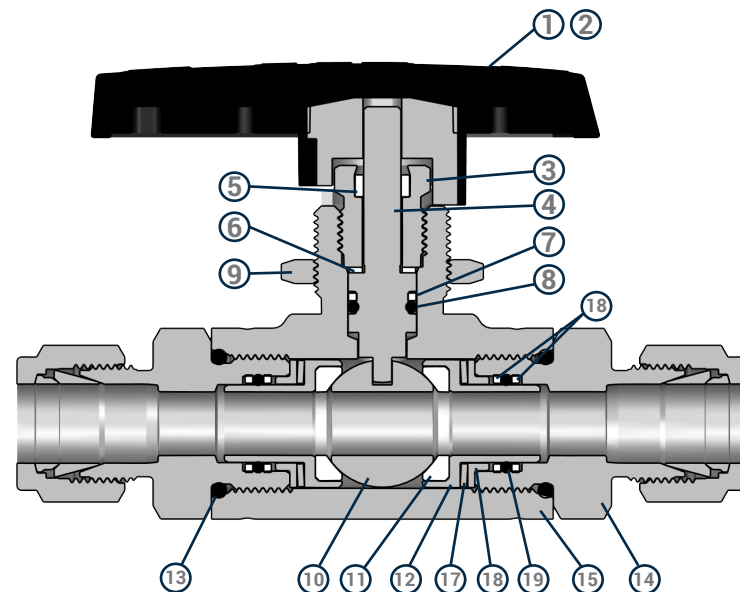
Actuation Torque

Use the table on the right to select the correct actuator for the valve and application. The values listed are minimum required actuator torque at maximum system pressure for each valve.

Valve Series	ISO 5211 Flange Size	Coupling Size	Fastener Type	Part Number
28	F04	11 mm ISO	Metric	28-MB-F04-11ISO-M
			Fractional	28-MB-F04-11ISO-F
		11 mm DIN	Metric	28-MB-F04-11DIN-M
			Fractional	28-MB-F04-11DIN-F
	F05	11 mm ISO	Metric	28-MB-F05-11ISO-M
			Fractional	28-MB-F05-11ISO-F
		11 mm DIN	Metric	28-MB-F05-11DIN-M
			Fractional	28-MB-F05-11DIN-F
		14 mm ISO	Metric	28-MB-F05-14ISO-M
			Fractional	28-MB-F05-14ISO-F
		14 mm DIN	Metric	28-MB-F05-14DIN-M
			Fractional	28-MB-F05-14DIN-F

Actuation Torque	
28 Series Valve	
in-lb	
Start	End
64	40

Materials of Construction



ID	Component	Material / Specification
1	Handle	Nylon with SS Insert
2	Handle Set Screw	17-4 PH
3	Packing Bolt	316 SS / A479
4*	Stem	316 SS / A276
5	Stem Support	PTFE / D1710
6	Stem Bearing	PEEK
7	Stem Back-Up Ring	PTFE / D1710
8*	Stem O-Ring	Low-Temp Nitrile
9	Panel Nut	316 SS / A479
10*	Ball	316 SS / A276
11*	Seat	PEEK
12*	Seat Carrier	316 SS / A479
13*	End Screw O-Ring	Low-Temp Nitrile
14*	End Screw	316 SS / A479
15*	Body	316 SS / A182
16*	Seat Spring	301 SS
17*	Seat Spring Support	316 SS
18*	Seat Back-Up Ring	PTFE
19*	Seat O-Ring	Low-Temp Nitrile

* Wetted Component