



Check Valves, Filters and Relief Valves

Catalog 4135-CV

April 2019

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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Introduction

Parker PG Series Purge Valves may be utilized as either bleed, purge, or drain valves. The compact valve requires only a quarter turn with a wrench from finger-tight to ensure a leak-tight seal on the first make-up. Additional wrenching ensures a leak-tight seal up to the rated pressure.

Features

- ▶ A 0.055 inch (1.4 mm) diameter vent hole in the cap bleeds, drains, or purges system pressure
- ▶ Hex cap permits finger-tight or wrench assisted closure
- ▶ Crimped cap resists accidental disassembly
- ▶ A variety of body styles offers system design flexibility, reduced space requirements, and helps to eliminate leak paths
- ▶ Available in a variety of end configurations including: CPI™, A-LOK®, male and female NPT, SAE, and Tube Adapter connections
- ▶ 100% factory tested
- ▶ Optional PTFE Ball requires only finger-tight torque to achieve a leak-tight seal

Specifications

Temperature Rating:

Stainless Steel..... -65°F to 600°F (-54°C to 316°C)
 Brass -65°F to 400°F (-54°C to 204°C)
 PTFE Ball Option..... -65°F to 350°F (-54°C to 177°C)

Pressure Rating:

Stainless Steel.....4000 psig (276 bar) CWP
 Brass 3000 psig (207 bar)
 PTFE Ball Option..... 200 psig (14 bar)

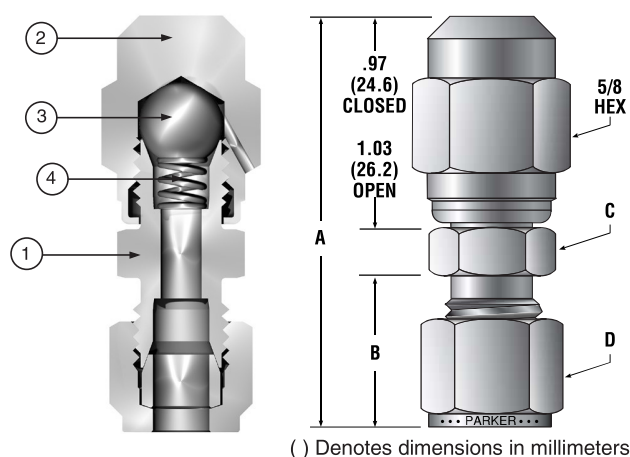
Caution

These valves do not have a cap thread seal. It is imperative to open the valve slowly and direct the vent hole away from persons operating or near the valve. Because of the absence of a cap seal, small amounts of media will flow through the cap thread area when the valves are opened.

PTFE Ball Option

Purge Valves with the PTFE ball option require only finger-tight operation for leak-tight shut-off and are designed with a removable cap for ball replacement.

Materials of Construction and Dimensions



Models Shown: 4Z-PG4L-SS

Item #	Part	Stainless Steel	Brass
1	Body	ASTM A479, Type 316	ASTM B16, Alloy C36000
2	Cap	ASTM A479, Type 316	ASTM B16, Alloy C36000
3	Ball	316 Stainless Steel*	
4	Vent Tube	316 Stainless Steel	

*Optional PTFE Ball available

Lubrication: Molybdenum disulfide with soft metallic fillers

Dimensions

Dimensions in inches (millimeters) are for reference only, subject to change.

Basic Part Number	End Connections	Dimensions						Options	
		A* (Closed)*		B*		C (hex)	D (hex)	Material	Ball
		inch	mm	inch	mm	inch	inch		
2M-PG4L-SS	1/8" Male NPT	1.56	39.6	0.38	9.7	0.50	-	B Brass	T PTFE
2F-PG4L-SS	1/8" Female NPT	1.50	38.1	0.53	13.5	0.56	-		
4A-PG4L-SS	1/4" A-LOK® Compression	1.88	47.8	0.70	17.8	0.50	0.56		
4Z-PG4L-SS	1/4" CPI™ Compression	1.88	47.8	0.70	17.8	0.50	0.56		
4M-PG4L-SS	1/4" Male NPT	1.76	44.7	0.56	14.2	0.56	-		
4F-PG4L-SS	1/4" Female NPT	1.69	42.9	0.72	18.3	0.75	-		
4F5-PG4L-SS	1/4" Male SAE	1.78	45.2	0.41	10.4	0.75	-		
4TA-PG4L-SS	1/4" Tube Adapter	1.91	48.5	0.72	18.3	0.50	-		
6A-PG4L-SS	3/8" A-LOK® Compression	1.98	50.3	0.76	19.3	0.63	0.69		
6Z-PG4L-SS	3/8" CPI™ Compression	1.98	50.3	0.76	19.3	0.63	0.69		
6M-PG4L-SS	3/8" Male NPT	1.78	45.2	0.56	14.2	0.69	-		
6F-PG4L-SS	3/8" Female NPT	1.75	44.5	0.78	19.8	0.88	-		
6TA-PG4L-SS	3/8" Tube Adapter	1.97	50.0	0.78	19.8	0.50	-		
M6A-PG4L-SS	6mm A-LOK® Compression	1.88	47.8	0.70	17.8	0.55	0.55		
M6Z-PG4L-SS	6mm CPI™ Compression	1.88	47.8	0.70	17.8	0.55	0.55		
8A-PG4L-SS	1/2" A-LOK® Compression	2.12	53.8	0.87	22.1	0.81	0.88		
8Z-PG4L-SS	1/2" CPI™ Compression	2.12	53.8	0.87	22.1	0.81	0.88		
8M-PG4L-SS	1/2" Male NPT	2.03	51.6	0.75	19.1	0.88	-		
8F-PG4L-SS	1/2" Female NPT	1.94	49.3	0.97	24.6	1.06	-		
8F5-PG4L-SS	1/2" Male SAE	2.08	52.8	0.47	11.9	1.13	-		
8TA-PG4L-SS	1/2" Tube Adapter	2.22	56.4	1.03	26.2	0.56	-		
M8A-PG4L-SS	8mm A-LOK® Compression	1.97	50.0	0.75	19.1	0.63	0.63		
M8Z-PG4L-SS	8mm CPI™ Compression	1.97	50.0	0.75	19.1	0.63	0.63		

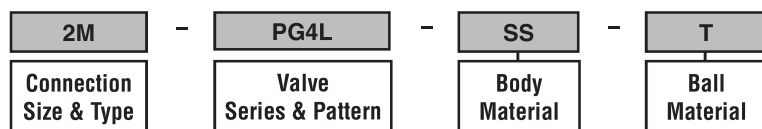
* For CPI™ and A-LOK®, dimensions are measured with nuts in the finger tight position.

PG

How to Order

The part number sequence identifies product characteristics as shown in the example below.

Example: 2M-PG4L-SS-T Describes a stainless steel, Purge Valve with a 1/8" male NPT port configuration and a PTFE Ball.



Option

Oxygen Cleaning – Add the suffix **-C3** to the end of the part number to receive valves cleaned in accordance with ASTM G93 level C, class 500. This ASTM details cleaning methods and cleanliness levels for materials and equipment used in oxygen-enriched environments.

Example: 2M-PG4L-SS-T-C3

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