

Plug Valve



ROKE
Valves ,Fittings and Tubing

www.chinaroke.com

Plug Valves

PV Series

Maximum Working pressure : 3000 psig (207 bar)

Working temperature: -10°F to 400°F (-23°C to 204°C)

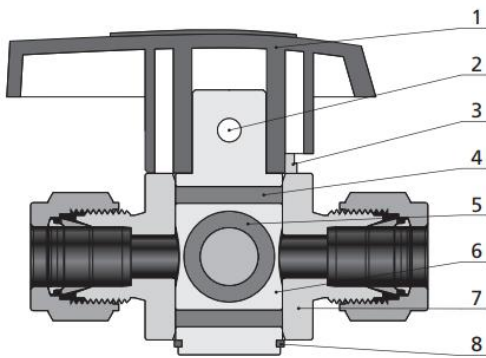
Features

- ⦿ Sizes from 1/8" to 3/4" and 6mm to 12mm
- ⦿ Easy to maintain and clean
- ⦿ Low operating torque
- ⦿ Replaceable plug assembly
- ⦿ Handle as indicator of flow direction
- ⦿ Options for handle color
- ⦿ Positive handle shutoff
- ⦿ Every valve leak tested with Nitrogen or air at working pressure
- ⦿ The inlet port for 3-way valves can only be the bottom port



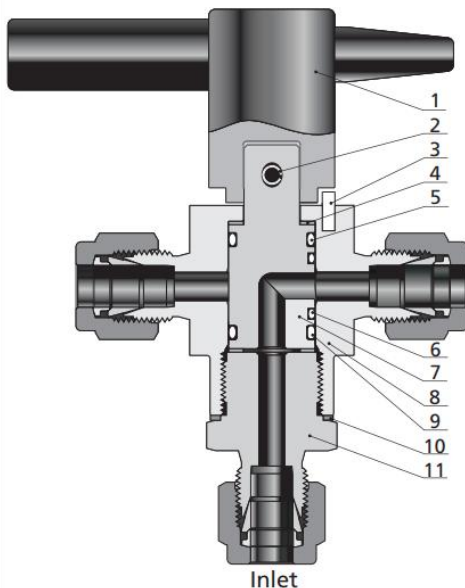
Standard Materials of Construction

Straight



NO.	Component	Material	
		316 SS	Brass
1	Handle	Nylon or Aluminium	
2	Handle Pin	Stainless Steel	
3	Body Pin	Stainless Steel	
4	O-ring	Fluorocarbon FKM or Neoprene or EPDM or Buna N or FFKM	
5	O-ring	Fluorocarbon FKM or Neoprene or EPDM or Buna N or FFKM	
6	Plug	PTFE-coated 316 SS/A479	PTFE-coated brass/B453
7	Body	316 SS/A276	Brass/B453
8	Retaining Ring	Stainless Steel	

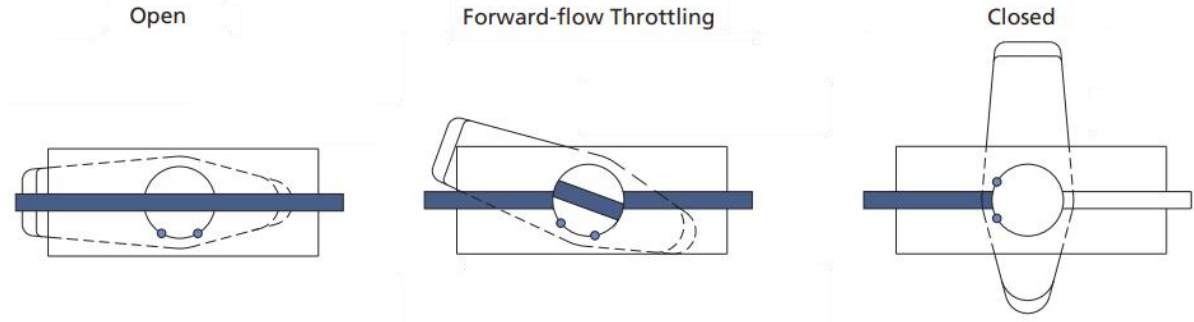
3 Way



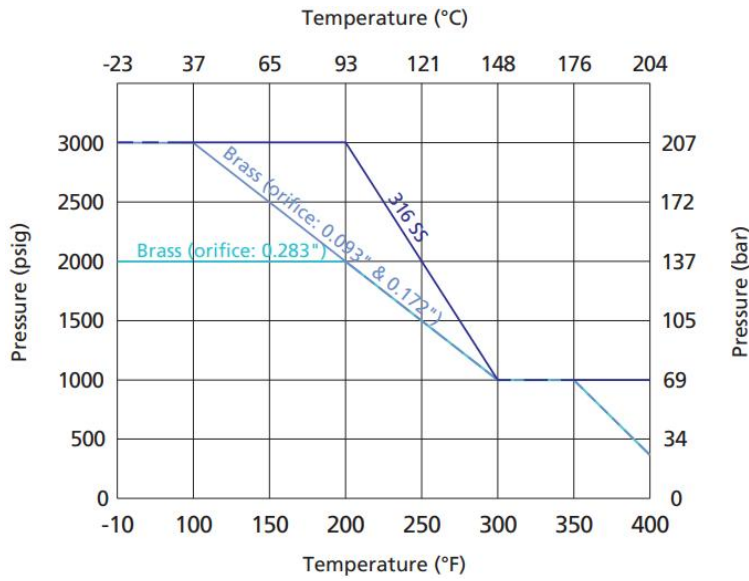
NO.	Component	Material	
		316 SS	Brass
1	Handle	Nylon or Aluminium	
2	Handle Pin	Stainless Steel	
3	Body Pin	Stainless Steel	
4	Gasket	PTFE	
5	O-ring	Fluorocarbon FKM or Neoprene or EPDM or Buna N or FFKM	
6	O-ring	Fluorocarbon FKM or Neoprene or EPDM or Buna N or FFKM	
7	Plug	PTFE-coated 316 SS/A479	PTFE-coated brass/B453
8	Body	316 SS/A276	Brass/B453
9	O-ring	Fluorocarbon FKM or Neoprene or EPDM or Buna N or FFKM	
10	Gasket	Silver-plated 316 SS/A479	Aluminum
11	Fitting	316 SS/A276	Brass/B453

⦿ Note: The 3-way plug valve is in working state when the handle is in limit positions. There will be a short moment of interconnection for the three ports when rotating the handle.

Operation (Straight)



Pressure vs. Temperature



- Differential pressure is limited to 150 psig (10.3 bar) maximum if reverse flow occurs.
- Reverse flow throttling may damage O-ring.
- The graphs are based on FKM O-ring.

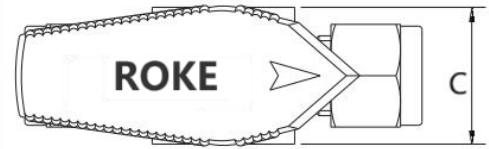
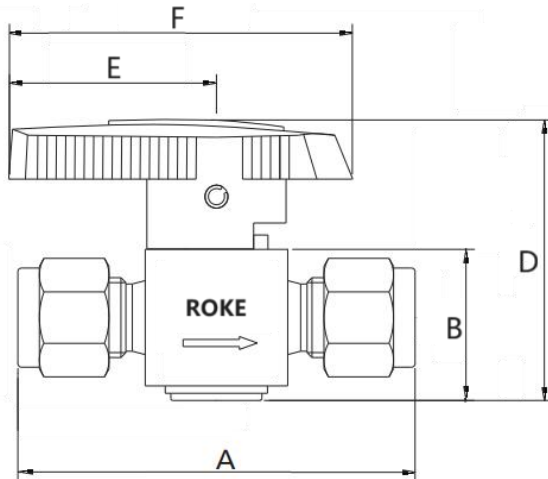
Downstream Vents (Straight)



- Plug and valve body allow pressure to be released to atmosphere when closed.
- Maximum working pressure: 150 psig (10.3 bar).

Dimensions

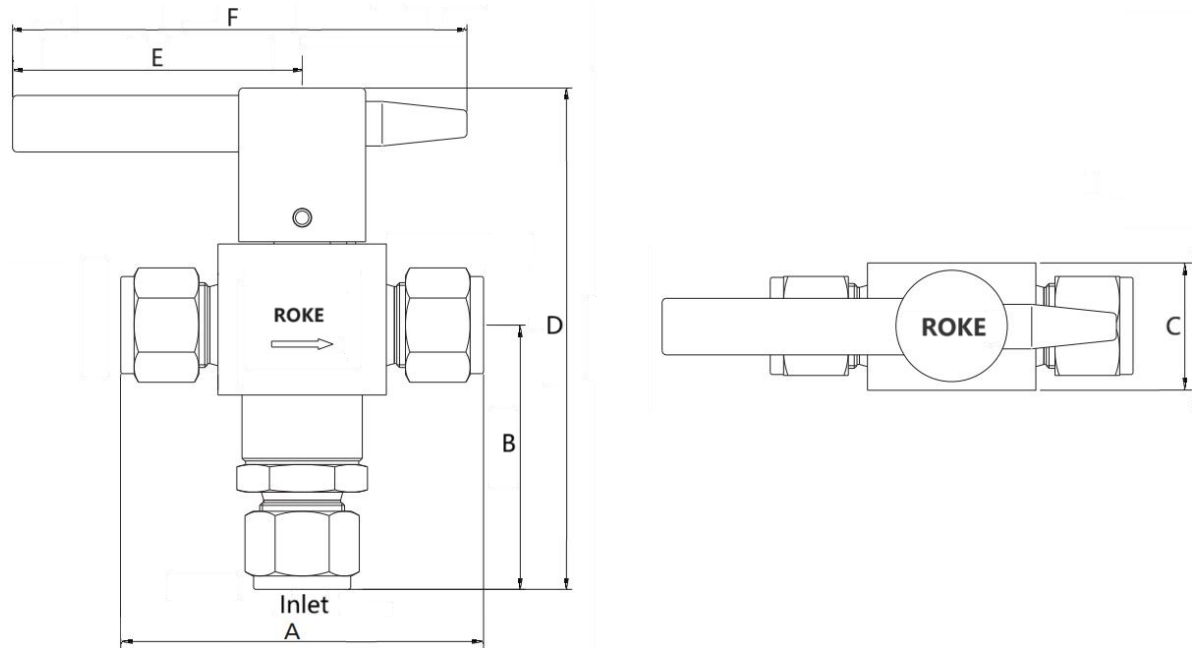
Straight



Part NO.	Connections Type and Size		Orifice in.(mm)	CV	Dimension in.(mm)					
	Inlet	Outlet			A	B	C	D	E	F
-PV-FN2-4	1/8 NPT Female	1/8 NPT Female	0.17 (4.4)	1.2	1.78 (45.2)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-FN4-4	1/4 NPT Female	1/4 NPT Female	0.17 (4.4)	0.9	2.09 (53.1)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-FN4-7	1/4 NPT Female	1/4 NPT Female	0.28 (7.1)	4.3	2.38 (60.5)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-FN6-7	3/8 NPT Female	3/8 NPT Female	0.28 (7.1)	4.0	2.38 (60.5)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-FN8-7	1/2 NPT Female	1/2 NPT Female	0.28 (7.1)	2.8	2.77 (70.3)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
PV-MN2-4	1/8 NPT Male	1/8 NPT Male	0.17 (4.4)	1.0	1.53 (39.0)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-MN4-4	1/4 NPT Male	1/4 NPT Male	0.17 (4.4)	1.0	1.90 (48.3)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-MN8-7	1/2 NPT Male	1/2 NPT Male	0.28 (7.1)	2.4	2.64 (67.0)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-FT2-2	1/8" OD Tube	1/8" OD Tube	0.09 (2.4)	0.1	1.99 (50.5)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-FT4-4	1/4" OD Tube	1/4" OD Tube	0.17 (4.4)	1.6	2.17 (55.1)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-FT6-4	3/8" OD Tube	3/8" OD Tube	0.17 (4.4)	1.1	2.29 (58.2)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-FT6-7	3/8" OD Tube	3/8" OD Tube	0.28 (7.1)	6.4	2.66 (67.6)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-FT8-7	1/2" OD Tube	1/2" OD Tube	0.28 (7.1)	4.4	2.88 (73.2)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-MT6-4	6mm OD Tube	6mm OD Tube	0.17 (4.4)	1.6	2.17 (55.1)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-MT8-4	8mm OD Tube	8mm OD Tube	0.17 (4.4)	1.5	2.25 (57.1)	0.83 (21.2)	0.75 (19.0)	1.54 (39.1)	1.14 (29.0)	1.89 (48.0)
-PV-MT10-7	10mm OD Tube	10mm OD Tube	0.28 (7.1)	6.4	2.68 (68.1)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)
-PV-MT12-7	12mm OD Tube	12mm OD Tube	0.28 (7.1)	4.8	2.88 (73.2)	1.22 (31.0)	1.12 (28.6)	2.18 (55.5)	1.50 (38.1)	2.48 (63.0)

Dimensions

3-way



Part NO.	Connections Type and Size		Orifice in.(mm)	Dimension in.(mm)					
	Inlet	Outlet		A	B	C	D	E	F
-PV-FN2-4-3W	1/8 NPT Female	1/8 NPT Female	0.17 (4.4)	2.06 (52.3)	1.11 (33.4)	0.79 (20.0)	3.01 (76.4)	1.61 (41.0)	2.72 (69.0)
-PV-FN4-4-3W	1/4 NPT Female	1/4 NPT Female	0.17 (4.4)	2.06 (52.3)	1.50 (38.1)	0.79 (20.0)	3.19 (81.0)	1.61 (41.0)	2.72 (69.0)
-PV-FN4-7-3W	1/4 NPT Female	1/4 NPT Female	0.28 (7.1)	2.38 (60.5)	1.89 (48.0)	1.12 (28.6)	3.98 (101)	1.50 (38.1)	2.48 (63.0)
-PV-FN6-7-3W	3/8 NPT Female	3/8 NPT Female	0.28 (7.1)	2.38 (60.5)	1.89 (48.0)	1.12 (28.6)	3.98 (101)	1.50 (38.1)	2.48 (63.0)
PV-MN2-4-3W	1/8 NPT Male	1/8 NPT Male	0.17 (4.4)	1.76 (44.8)	1.39 (35.2)	0.79 (20.0)	3.08 (78.2)	1.61 (41.0)	2.72 (69.0)
-PV-MN4-4-3W	1/4 NPT Male	1/4 NPT Male	0.17 (4.4)	2.05 (52.0)	1.56 (39.7)	0.79 (20.0)	3.26 (82.7)	1.61 (41.0)	2.72 (69.0)
-PV-MN4-7-3W	1/4 NPT Male	1/4 NPT Male	0.28 (7.1)	2.46 (62.5)	2.04 (51.7)	1.12 (28.6)	4.13 (105)	1.50 (38.1)	2.48 (63.0)
-PV-MN6-7-3W	3/8 NPT Male	3/8 NPT Male	0.28 (7.1)	2.46 (62.5)	2.04 (51.7)	1.12 (28.6)	4.13 (105)	1.50 (38.1)	2.48 (63.0)
-PV-FT2-2-3W	1/8" OD Tube	1/8" OD Tube	0.09 (2.4)	2.19 (55.7)	1.60 (40.6)	0.79 (20.0)	3.29 (83.6)	1.61 (41.0)	2.72 (69.0)
-PV-FT4-4-3W	1/4" OD Tube	1/4" OD Tube	0.17 (4.4)	2.40 (60.6)	1.70 (43.2)	0.79 (20.0)	3.39 (86.1)	1.61 (41.0)	2.72 (69.0)
-PV-FT6-4-3W	3/8" OD Tube	3/8" OD Tube	0.17 (4.4)	2.52 (64.0)	1.76 (44.8)	0.79 (20.0)	3.46 (87.8)	1.61 (41.0)	2.72 (69.0)
-PV-FT6-7-3W	3/8" OD Tube	3/8" OD Tube	0.28 (7.1)	3.01 (76.4)	2.24 (56.8)	1.12 (28.6)	4.33 (110)	1.50 (38.1)	2.48 (63.0)
-PV-FT8-7-3W	1/2" OD Tube	1/2" OD Tube	0.28 (7.1)	3.21 (81.6)	2.34 (59.4)	1.12 (28.6)	4.45 (113)	1.50 (38.1)	2.48 (63.0)
-PV-MT6-4-3W	6mm OD Tube	6mm OD Tube	0.17 (4.4)	2.40 (60.6)	1.70 (43.2)	0.79 (20.0)	3.39 (86.1)	1.61 (41.0)	2.72 (69.0)
-PV-MT8-4-3W	8mm OD Tube	8mm OD Tube	0.17 (4.4)	2.48 (63.0)	1.74 (44.2)	0.79 (20.0)	3.42 (86.9)	1.61 (41.0)	2.72 (69.0)
-PV-MT10-7-3W	10mm OD Tube	10mm OD Tube	0.28 (7.1)	3.03 (77.0)	2.25 (57.0)	1.12 (28.6)	4.33 (110)	1.50 (38.1)	2.48 (63.0)
-PV-MT12-7-3W	12mm OD Tube	12mm OD Tube	0.28 (7.1)	3.21 (81.6)	2.34 (59.4)	1.12 (28.6)	4.45 (113)	1.50 (38.1)	2.48 (63.0)

Nantong ROKE Fluid Equipment Co., Ltd.

ROKE Factory

27-28, Alpha Industrial Park, No. 333, Kaiyuan Avenue.
Hai'an City, Jiangsu Province, China
Tel :86-513-86751377
Fax :86-513-86752577

ROKE Marketing Center

B-1108, Fortune Building, No. 817, Jianghai Avenue.
Nantong City, Jiangsu Province, China
Tel: 86-513-85400443
Fax: 86-513-85400444
Web:www.chinaroke.com
E-mail:sales01@ntroke.com



ROKE
Valves ,Fittings and Tubing

www.chinaroke.com