

# Purge Valves

RP Series



**FITOK**

# Purge Valves

## RP Series

### Introduction

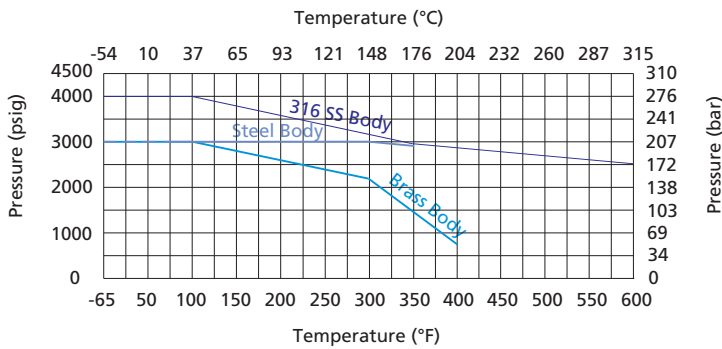
Purge valves are manual bleed, vent or drain valves. The knurled cap is permanently assembled to the valve body for safety. One-quarter turn with a wrench from finger-tight obtains leaktight closure during initial installation. Tightening with a wrench ensures closure to the rated pressure with subsequent installations.

### Features

- ⦿ Compact design for easy installation
- ⦿ Bonnet crimped to valve body to prevent accidental disassembly
- ⦿ Working pressure up to: 4000 psig (276 bar)
- ⦿ Working temperature: -65°F to 600°F (-54°C to 315°C)
- ⦿ Leak-tight performance testing with Nitrogen or compressed air for every valve at the maximum working pressure to meet the requirement of no visible leak.



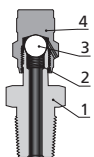
### Pressure vs. Temperature



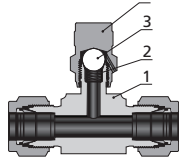
Note: Ratings based on all metal seals. Ratings limited to:  
 ■ -20°F (-28°C) min with steel.  
 ■ 450°F (232°C) max with SAE end connections using fluorocarbon FKM O-rings.

### Standard Materials of Construction

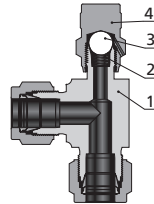
Type L



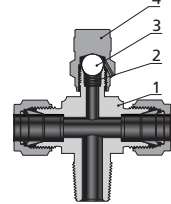
Type TL



Type TA



Type C



Component		Material Grade/ASTM Specification		
		316 SS	Brass	Carbon Steel
1	<i>Body</i>	<i>316 SS/A182 316 SS/A479</i>	<i>Brass C36000/B16 Brass C37700/B283</i>	<i>12L4/A108 Chromium-plated</i>
2	<i>Spring</i>	<i>302 SS/A313</i>		
3	<i>Poppeet (Ball)</i>	<i>316 SS/A479</i>		
4	<i>Cap</i>	<i>316 SS/A479</i>	<i>Brass C36000/B16</i>	<i>12L4/A108 Chromium-plated</i>

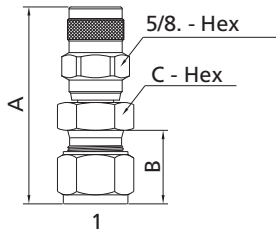
Note: Wetted components are listed in italics.

1. Lubricant: molybdenum disulfide-based and silicone-based.

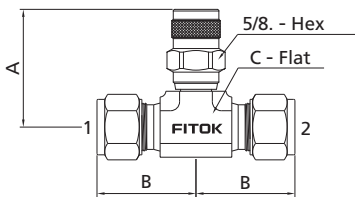
2. Contact FITOK Group or our authorized distributors for other materials.

## Dimensions

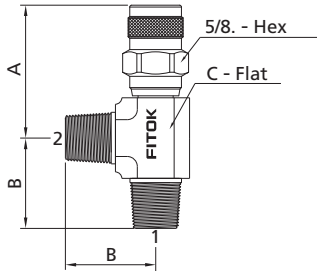
### Type L



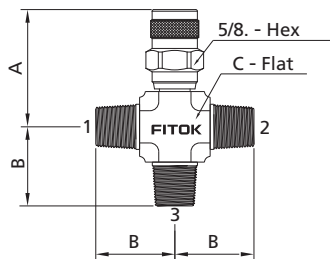
### Type TL



### Type TA



### Type C



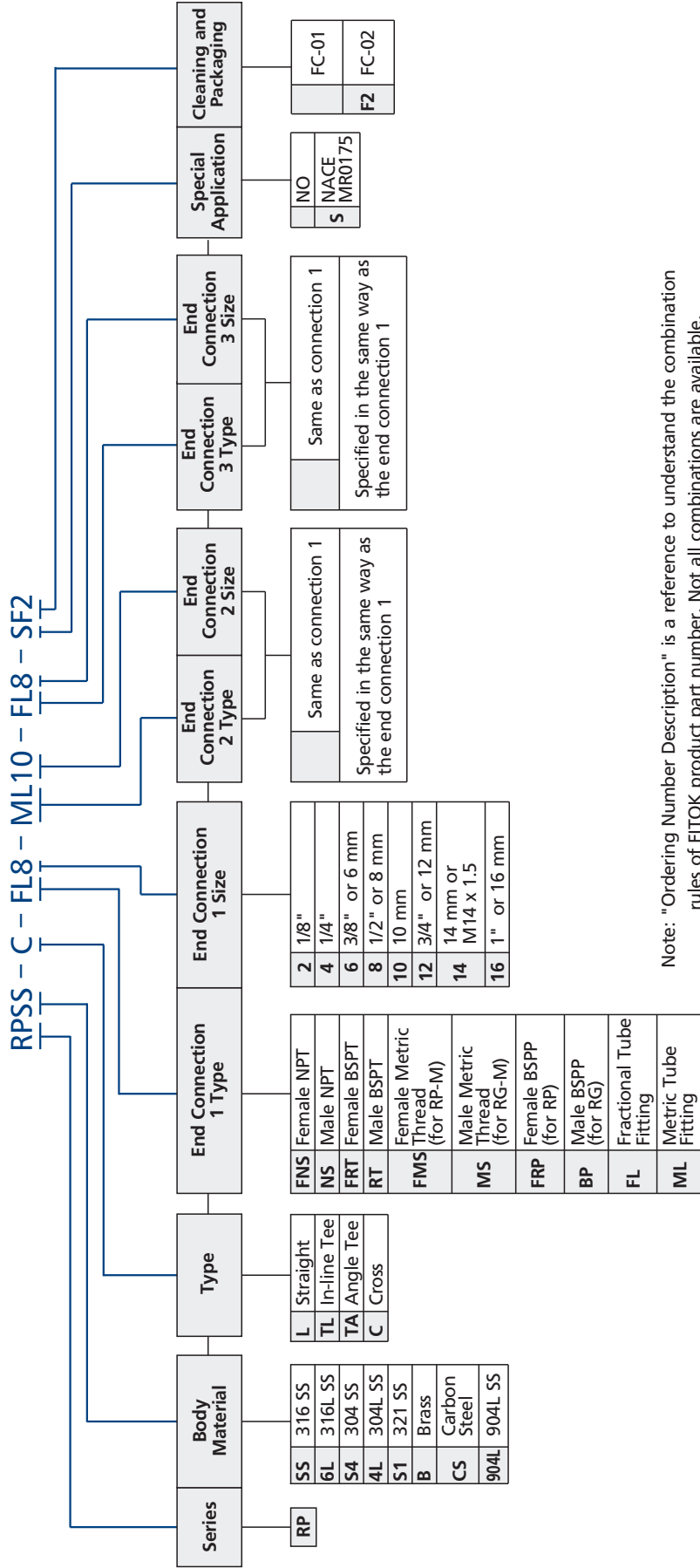
## Caution:

When installing a purge valve, position the vent hole to direct system fluid away from operating personnel. Always open purge valves slowly. These valves contain no packing, so some fluid weepage will occur when the valves are opened. Operating personnel must protect themselves from exposure to system fluids.

Basic Ordering Number	Connection Type and Size		Dimensions, in. (mm)				
			A <sub>max</sub>	B	C	D	
RP□□-L	-FL4	1/4" FITOK	1.96 (49.8)	0.69 (17.5)	1/2 (12.7)	5/8 (15.9)	
	-FL6	3/8" FITOK	2.05 (52.1)	0.75 (19.1)	5/8 (15.9)		
	-FL8	1/2" FITOK	2.20 (56.0)	0.88 (22.4)	13/16 (20.6)		
	-ML6	6 mm FITOK	1.96 (49.8)	0.69 (17.5)	0.55 (14.0)		
	-ML8	8 mm FITOK	2.02 (51.3)	0.73 (18.6)	0.59 (15.0)		
	-ML10	10 mm FITOK	2.10 (53.4)	0.77 (19.6)	0.71 (18.0)		
	-ML12	12 mm FITOK	2.20 (55.9)	0.87 (22.0)	0.87 (22.0)		
	-FNS4	1/4 Female NPT	1.76 (44.7)	0.72 (18.3)	3/4 (19.1)		
	-FNS6	3/8 Female NPT	1.83 (46.5)	0.78 (19.8)	7/8 (22.2)		
	-FNS8	1/2 Female NPT	2.02 (51.3)	0.97 (24.6)	1 1/16 (26.9)		
	-NS4	1/4 Male NPT	1.84 (46.8)	0.56 (14.2)	9/16 (14.3)		
	-NS6	3/8 Male NPT	1.89 (48.0)	0.56 (14.2)	11/16 (17.5)		
	-NS8	1/2 Male NPT	2.11 (53.6)	0.75 (19.1)	7/8 (22.2)		
	RP□□-TL RP□□-TA RP□□-C	-FL4	1/4" FITOK	1.41 (35.8)	1.06 (26.9)		1/2 (12.7)
		-FL6	3/8" FITOK	1.49 (37.8)	1.20 (30.5)		5/8 (15.9)
		-FL8	1/2" FITOK	1.61 (40.9)	1.42 (36.1)		13/16 (20.6)
-ML6		6 mm FITOK	1.41 (35.8)	1.06 (27.0)	1/2 (12.7)		
-ML8		8 mm FITOK	1.48 (37.7)	1.495 (29.9)	5/8 (15.9)		
-ML10		10 mm FITOK	1.52 (38.6)	1.24 (31.6)	11/16 (17.5)		
-ML12		12 mm FITOK	1.60 (40.6)	1.41 (36.0)	13/16 (20.6)		
-FNS4		1/4 Female NPT	1.66 (42.2)	1.17 (29.7)	11/16 (17.5)		
-FNS6		3/8 Female NPT	1.75 (44.4)	1.42 (36.1)	13/16 (20.6)		
-FNS8		1/2 Female NPT	1.75 (44.4)	1.56 (39.6)	1 (25.4)		
-NS4		1/4 Male NPT	1.54 (39.2)	1.05 (26.7)	1/2 (12.7)		
-NS6		3/8 Male NPT	1.68 (42.6)	1.17 (29.7)	11/16 (17.5)		
-NS8	1/2 Male NPT	1.75 (44.4)	1.45 (36.8)	13/16 (20.6)			

1. FITOK means FITOK double ferrule tube fittings.
2. Dimensions are shown with FITOK nuts finger-tightened. All dimensions are for reference only and are subject to change.
3. Sizes and types listed are standard. Other sizes and types are available upon request.

# Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

1. Standard thread pitch for metric threads are as follows:
  - M10 and below: 1 mm
  - M12 to M24: 1.5 mm
  - M27 and above: 2 mm
2. Cleaning and Packaging:
  - FC-01: Standard cleaning and packaging for general industrial procedures.
  - FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleanliness requirement of ASTM G93 Level C.