

# POPPET CHECK VALVE 1/8" - 1/2" Dual Ferrule Tube, Female & Male NPT, 1/4" Face Seal 0-3000 PSIG



### Description

Poppet type, zero leak, inline check valve for liquid and gas applications to 3000 Psig. Fully retained O-ring seal design permits full rated pressure in the checked direction. Offered with fully interchangeable dual ferrule tube or metal to metal face seal connections. A variety of crack pressures and seal materials, combined with a metal to metal positive stop provides long trouble free service life in the most demanding applications.

#### **Features**

- Working Pressures to 3000 Psig (206 bar)
- Full Pressure Rating in Check Direction
- Fully Retained O-ring Seal
- Dual Ferrule Tube, Female NPT, Male NPT and Face Seal Connections Available
- Cracking Pressures from 0.3 to 25 Psig (0.02-1.7 bar)
- 100% Factory tested for crack, leakage and reseal performance



- Nominal Crack Pressures: 0.3, 1, 10, & 25 Psig (0.02, 0,07, 0.7, & 1.7 bar)
- Maximum Pressure: 3000 Psig @ 70°F (206 bar @ 21° C)
- Temperature Rating:
  -80°F to 375°F (-62°C to 190°C)
  (based on seal selection, see ordering information)



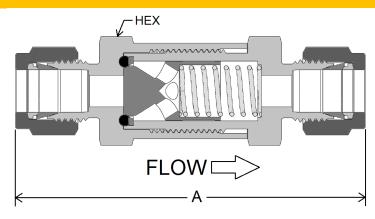
# **Materials of Construction**

Commonant	Valve Body Material			
Component	Brass	Stainless Steel		
Inlet Cap, Outlet Body, Poppet	Brass, ASTM B16	316 SS, ASTM A479		
O-ring Retainer	316 SS, ASTM A479			
Spring	302 SS, ASTM A313			
O'Ring Seal	Buna-N	Viton™		

Lubricated with Krytox™



# **SERIES PCV POPPET CHECK VALVE**



# **Dimensional/Flow Data**

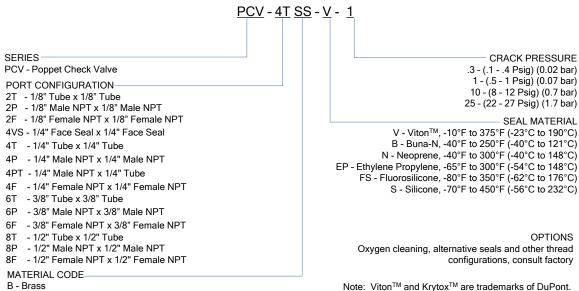
Model Code	Port Configuration		Dimensions/Flow		
	Inlet	Outlet	A <sup>1</sup> (inches)	Hex	Cv
PCV-2T	1/8" Tube	1/8" Tube	2.19	5/8"	0.10
PCV-2P	1/8" Male NPT	1/8" Male NPT	1.71		
PCV-2F	1/8" Female NPT	1/8" Female NPT	1.89		
PCV-4VS <sup>2</sup>	1/4" Face Seal	1/4" Face Seal	2.21		0.47
PCV-4T	1/4" Tube	1/4" Tube	2.35		
PCV-4P	1/4" Male NPT	1/4" Male NPT	2.09		
PCV-4PT	1/4" Male NPT	1/4" Tube	2.22		
PCV-4F	1/4" Female NPT	1/4" Female NPT	2.15		
PCV-6T	3/8" Tube	3/8" Tube	3.17		
PCV-6P	3/8" Male NPT	3/8" Male NPT	2.78	7/8"	1.47
PCV-6F	3/8" Female NPT	3/8" Female NPT	2.98		
PCV-8T	1/2" Tube	1/2" Tube	3.42		
PCV-8P	1/2" Male NPT	1/2" Male NPT	3.16	1-1/16"	1.68
PCV-8F	1/2" Female NPT	1/2" Female NPT	3.58		

<sup>1</sup> Dimensions are shown with nuts finger-tight.

SS - 316 SS

Flow tested in accordance with ISA S75.21 with air. Restrictions in the inlet or outlet piping may reduce flow. Other Inlet and Outlet combinations available. Consult Factory.

#### Ordering Information



PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designer.



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<sup>2 316</sup> SS only