

1/8" - 3/4" NPT Vacuum - 800 Psig

Description

A compact, inline, direct acting poppet check valve suitable for pressure and vacuum applications. Bubble tight sealing is achieved by a line of contact between a precision machined seat and a standard elastomer O-ring with minimum differential pressure, regardless of mounting attitude. Floating poppet and fluted retainer design provides laminar flow. Metal to metal positive stop ensures long service life.

GENERANT

Technical Data

- Nominal Crack Pressures: .15, 1 & 3 Psig (0.01, 0.07 & 0.21 bar)
- Proof Pressure: 1200 Psig (83 bar)
- Operating Pressure Range: Vacuum -800 Psig (55 bar)
- Leakage: Zero @ > 0.5 Psig Back Pressure (0.03 bar)
- Temperature Rating:
 - -80°F to 375°F (-62°C to 190°C) based on seal material

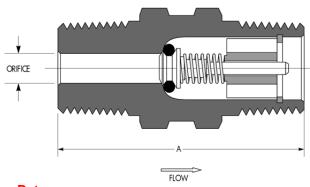


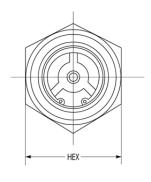
Materials of Construction

Commonant	Valve Body Material				
Component	Brass	Stainless Steel ¹			
Body, Poppet	Brass, ASTM B16	316 SS, ASTM A479			
Spring Retainer	Brass, ASTM B16 ²	316 SS, ASTM A479			
Spring	302 SS, ASTM A313				
O'Ring ³	Buna-N	Viton™			
Retaining Ring	Zinc Plated Carbon Steel	Stainless Steel			

- 1 Stainless Steel available in 1/8", 1/4", 3/8" & 1/2" Male x Male only
- 2 1/8" & 1/4" Brass valves have 316SS retainer
- 3 Lubricated with Krytox™

SERIES ICV INLINE CHECK VALVE





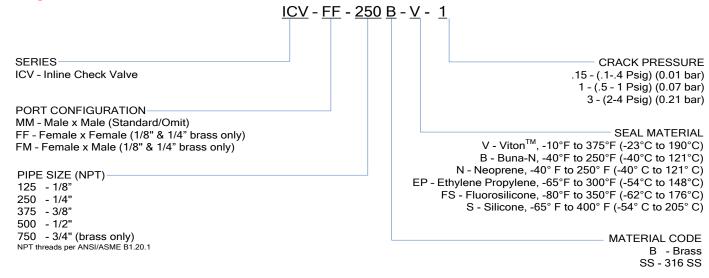
Dimensional/Flow Data

Pipe Size (NPT)	Port Configuration		Α	HEX	Orifice	Cv	Flow at Max Psid ¹
	Inlet	Outlet	(inches)		(inches)	CV	(SCFM)
1/8"	Male	Male	1.312	1/2"	.140	0.4	7.2
	Female	Female	1.687				
	Female	Male	1.437				
1/4"	Male	Male	1.592	5/8"	.193	0.8	14.3
	Female	Female	1.937	3/4"			
	Female	Male	1.500				
3/8"	Male	Male	1.610	3/4"	.270	1.2	21.5
1/2"	Male	Male	2.140	7/8"	.327	2.0	35.5
3/4"	Male	Male	2.160	1 – 1/8"	.467	5.0	90.0

^{1.} Maximum allowable pressure drop 15 Psid.

Flow tested in accordance with ISA S75.02 with air. Restrictions in the inlet or outlet piping may reduce flow.

Ordering Information



Note: $Viton^{TM}$ and $Krytox^{TM}$ are trademarks of DuPont.

Oxygen cleaning, alternative seals and other thread configurations, consult factory

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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OPTIONS