

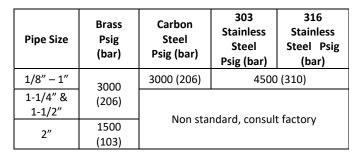
Description

High flow, zero leak, low pressure drop check valve suitable for most fluid and gas applications. Fully guided poppet with free floating O-ring design is extremely tolerant of particulate contamination. A metal to metal positive stop in both the open and checked position protects O-ring and spring from over-stress fatigue. Zero external leakage is achieved by the utilization of a static O-ring seal with PTFE backup ring.

NOTE: For Cryogenic Liquid service, see Generant's CV-XX3 Product Offering.

Technical Data

- Nominal Crack Pressures: .15, 1, 3 & 8 Psig (0.01, 0.07, 0.21 & 0.55 bar)
- Leakage: Zero to maximum operating pressure.
 PTFE seals may require back pressure to seal leak-tight
- Temperature Rating: -320°F to 400°F (-195°C to 204°C)
 based on seal material
- Maximum Operating Pressures to 300°F (149°C)





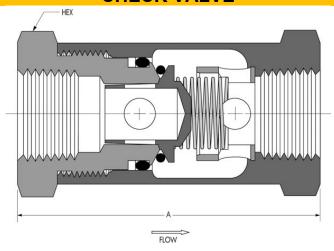
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Materials of Construction

Component	Valve Body Material				
Component	Brass	Carbon	303 SS	316 SS	
Inlet Cap, Outlet Body, Poppet, Spring Retainer	Brass ASTM B16	Carbon Steel ASTM A108 Zinc & Black Plated per ASTM B633	303 SS ASTM A582	316 SS ASTM A479	
Dynamic O- Ring ¹ Static O-Ring	Buna-N		Viton	Viton™	
Backup Ring	Virgin PTFE				
Spring	302 SS, ASTM A313				

1 Lubricated with Krytox™

SERIES CV CHECK VALVE

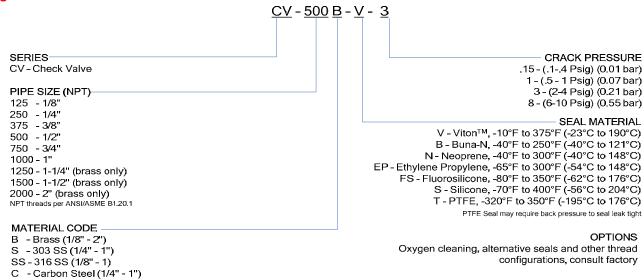


Dimensional/Flow Data

Pipe Size (NPT)	A (inches)	Hex	Cv	Flow at 5.0 Psid (SCFM)
1/8"	1.70	13/16"	1.7	35
1/4"	2.25	1"	3.0	60
3/8"	2.43	1 – 1/8"	3.9	80
1/2"	2.93	1 – 1/2"	7.4	150
3/4"	3.37	1 – 3/4"	11.4	280
1"	3.99	2"	14.2	380
1 – 1/4"	4.50	2 – 3/4"	26.8	700
1 – 1/2"	5.35	2 – 3/4		
2"	6.10	3 – 1/2" Round ¹	51.0	1200

^{1.} Machined from 3-1/2" round stock with 2-3/4" wrench flats.
Flow tested in accordance with ISA S75.02 with air. Restrictions in the inlet or outlet piping may reduce flow

Ordering Information



PROPER COMPONENT SELECTION – When specifying a component, the total system design must be considered to ensure safe and trouble-free performance.

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



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