

ADJUSTABLE CHECK VALVE

1/4" & 1/2" NPT 3 - 600 Psig



Description

Compact one piece body, adjustable check/relief valves are available in Brass or 316 Stainless Steel. Available in 1/4" and 1/2" NPT with a wide selection of seal materials. Series ACV valves can be ordered factory "preset and locked" in crack pressures up to 600 Psig. All valves are 100% factory tested and available cleaned & packaged for Oxygen service.

Features

- Compact One Piece Body Construction
- Working Pressures to 3000 Psig (206 bar)
- Adjustable Cracking Pressures from 3 to 600 Psig (0.2 bar to 41.3 bar)
- Fully retained O-Ring Seal
- Full Back Pressure Rating
- Factory Presetting Available
- 100% Factory Tested for Leakage, Crack and Reseal Performance



Technical Data

Cracking Pressure Ranges:

3 to 20 Psig (0.2 to 1.4 bar) 20 to 65 Psig (1.4 to 4.5 bar)

65 to 175 Psig (4.5 to 12.1 bar)

175 to 350 Psig (12.1 to 24.1 bar)

350 to 600 Psig (24.1 to 41.3 bar)

Maximum Pressure: 3000 Psig @ 100°F (206 bar @ 40°C)

Temperature Rating: -80°F to 450°F (-65°C to 232°C)

(based on seal selection, see ordering information)

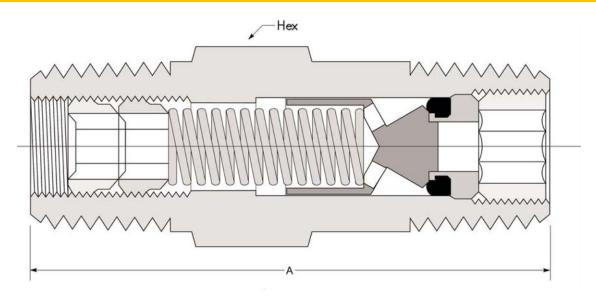
S M M M

Materials of Construction

Component	Valve Body Material		
Component	Brass	Stainless Steel	
Body, Poppet, Seat Locking Screw, Adjustment Screw, Pressure Locking Screw	Brass, ASTM B16	316 SS, ASTM A479	
Spring	302 SS, ASTM A313		
O-Ring Seal ¹	Buna-N	Viton™	

1 Lubricated with Krytox™

SERIES ACV ADJUSTABLE CHECK VALVE

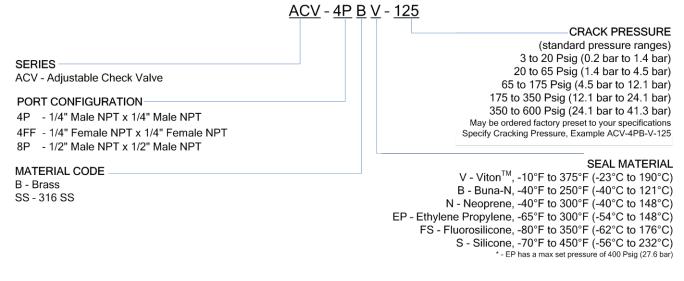


Dimensions

Model Code	Connection	Dimensions			
Woder Code	Inlet & Outlet	Α	Hex	Cv	
ACV-4P	1/4" Male NPT	1.62"	9/16"	0.35	
ACV-4FF	1/4" Female NPT	2.98"	3/4"	0.35	
ACV-8P	1/2" Male NPT	2.56"	7/8"	1.20	

Flow tested in accordance with ISA S75.21 with air. Restrictions in the inlet or outlet piping may reduce flow. NPT Threads per ASME B1.20.1.

Ordering Information



OPTIONS

Note: Viton[™] and Krytox[™] 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.

