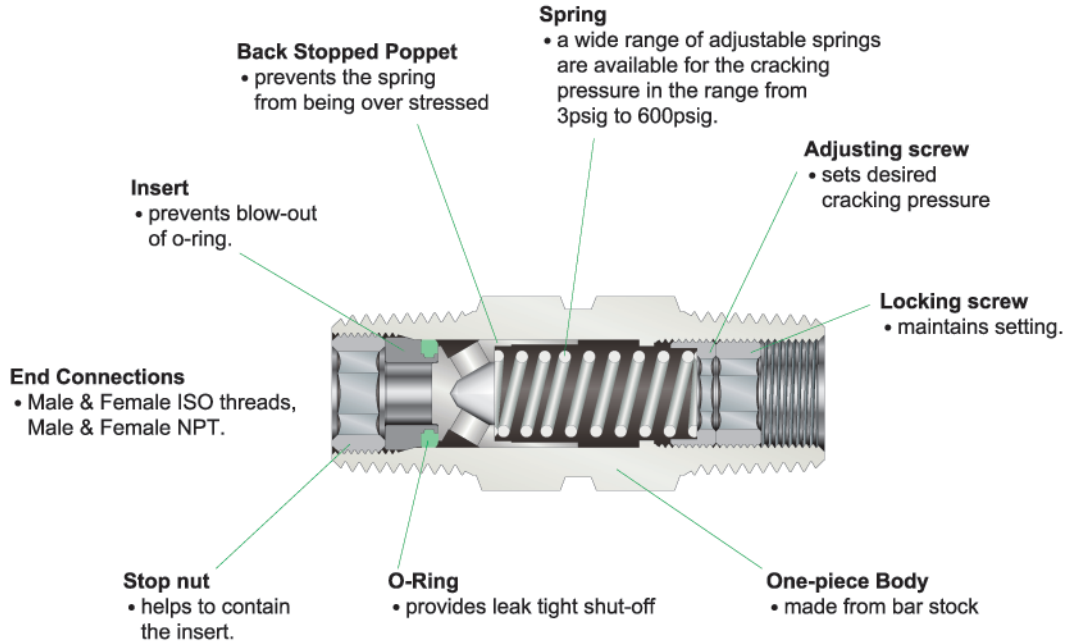


Hy-Lok CVA Series

One-piece Pipe-ended Adjustable Check Valves



Catalog No. H - 700ACV
Apr. 2006



Features

- Working pressure to 3000psig(206 bar) @70°F(21°C)
- Temperature range from -10°F to 375°F(-23°C to 191°C) with Viton Seal
- One piece body construction
- Ease adjustment
- Wide range of cracking pressure
- Materials include stainless steel and brass.

Technical Data

End Connection Sizes	1/4"	1/2"
Max. Working Pressure @21°C (70°F)	3000 psig (206 bar)	
Operating Temperature Range	Viton : -10°F to 375°F (-23°C to 191°C) Buna-N : -10°F to 250°F (-23°C to 121°C)	
Cracking Pressure Range	3 to 50 psig 50 to 150 psig 150 to 350 psig 350 to 600 psig	
Flow Coefficient (Cv)	0.35	1.20



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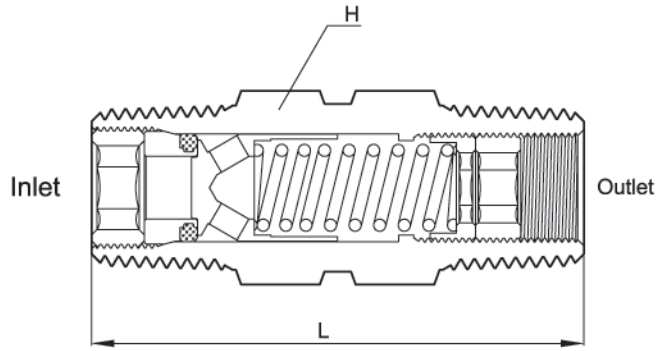
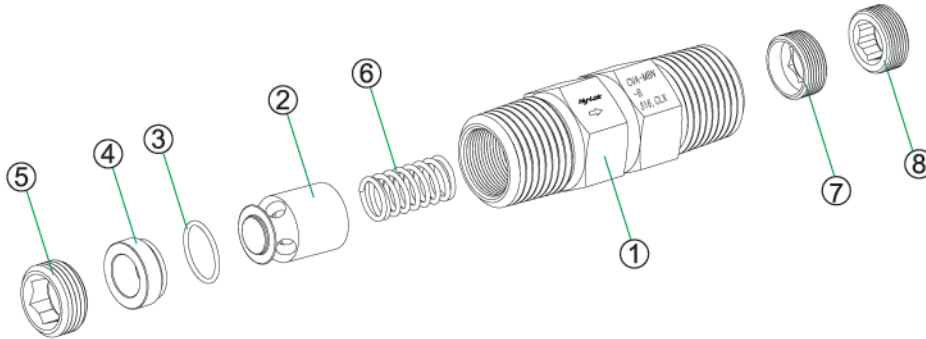


Table of Dimensions

Basic Part NO.		Flow Dia.	End Connections		Dimensions			
			Inlet	Outlet	L		H	
					mm	in.	mm	in.
CVA	-M4N	4.8	1/4 Male NPT	1/4 Male NPT	41.1	1.62	14.20	9/16
	-M4R		1/4 Male ISO Tapered	1/4 Male ISO Tapered				
	-F4N		1/4 Female NPT	1/4 Female NPT				
	-M8N	10.0	1/2 Male NPT	1/2 Male NPT	65.0	2.55	22.22	7/8
	-M8R		1/2 Male PT	1/2 Male PT				

■ All dimensions in millimeters. Dimensions are for reference only, subject to change.

Materials of Construction



NO.	Component	Valve Body Materials	
		316 Stainless Steel	Brass
		Material Grade / ASTM Specification	
1	Body ^①	316SS / A479	Brass360 / B16
2	Poppet	316SS / A479	Brass360 / B16
3	O-ring ^①	Viton Standard	
4	Insert	316SS / A479	Brass360 / B16
5	Stop nut	316SS / A479	Brass360 / B16
6	Spring	302SS/A313	
7	Adjusting screw ^②	316SS / A479	Brass360 ^③ / B16
8	Locking screw ^②		

① Silicone-based lubricant.

② Molybdenum disulfide-based dry film lubricant.

③ Adjusting screw in brass valve with 150 or 600 psig spring is 316SS.

Cleaning

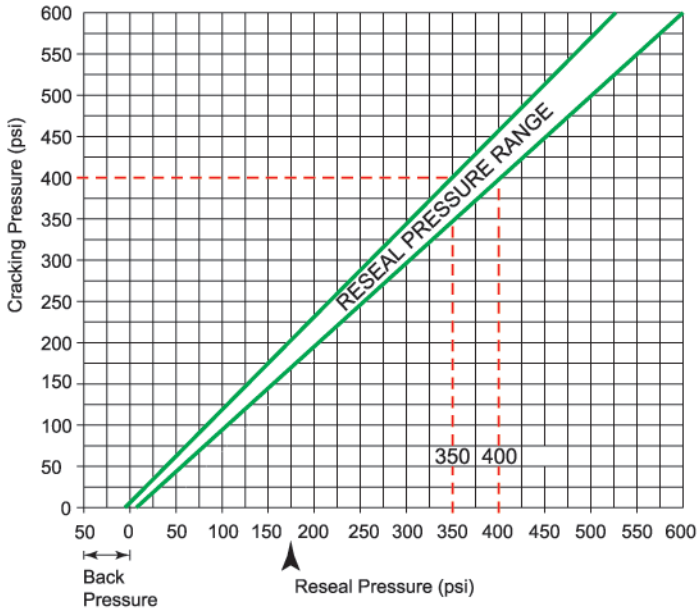
■ Each valve is cleaned and packaged according to the manufacture standard cleaning procedures.

Testing

■ Each valve is factory tested for cracking pressure and reseal performance.

■ Optional tests are available upon request.

Cracking and Reseal Pressure at 70°F (20°C)



Example : For a valve set to crack at 400 psi, the minimum reseal pressure would be 350psi.



Valves that are not actuated for a period of time may crack initially at higher than subsequent cracking pressure.

CVA series check valves set to crack at 20psi or lower may require back pressure to reseal bubble-tight.

1. Cracking pressure : The upstream pressure at which the first indication of flow occurs.
2. Reseal pressure : The upstream pressure at which there is no indication of flow.

Flow Rate at 70°F (20°C)

