

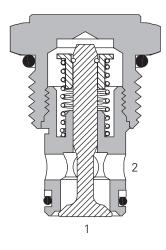
Operation

The valve remains closed until the spring bias is reached at port 2 at which time the poppet lifts of the seat and allows flow from port 2 to port 1. in the other direction the valve is closed.

Features

Hardened and ground working parts to limit leakage and extend service life. Robust design with a 350 bar max pressure rating.

Sectional View



Performance Data

Ratings and Specifications			
Performance data is typical with fluid at 21,8 cST (105 SUS) and 4	19°C (120°F)		
Typical application pressure (all ports)	350 bar (5000 psi)		
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)		
Rated flow	76 L/min (20 USgpm)		
Free flow cracking pressures @ 1.0 L/min (0.25 USgpm)	05 - 0.34 bar (5 psi) 15 - 1.03 bar (15 psi) 25 - 1.70 bar (25 psi) 50 - 3.40 bar (50 psi)		
Internal leakage, Port 1 to 2	5 drops/min. maximum @ 350 bar (5000 psi)		
Temperature range	-40° to 120°C (-40° to 248°F)		
Cavity	C-10-2		
Fluids	All general purpose hydraulic fluids such as MIL - H-5606, SAE 10, SAE 20, etc.		
Filtration	Cleanliness code 18/16/13		
Standard housing materials	Aluminum or steel		
Weight, cartridge only	0.08 kg (0.17 lbs.)		
Seal kit	565803 (Buna-N) 566086 (Viton')		

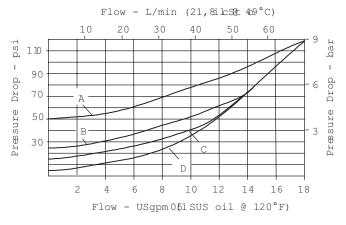
Viton is a registered trademark of E.I. DuPont

Description

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This is a poppet type screwin cartridge valve allowing free flow from port 2 to 1. This gives flexibility to the manifold designer allowing the production of the most compact solution

Pressure Drop



A - CV16-10-P-O-50

C - CV16-10-P-O-15

B - CV16-10-P-O-25

D - CV16-10-P-O-5



CV16-10 - Check Valve

Direct acting, poppet types, side in, nose out 76 L/min (20 USgpm) • 350 bar (5000 psi)

Model Code

CV16 - 10 00

Function

6

CV16 - Check valve

2	Size	
10 -	10 size	

Seal Material Blank - Buna-N Viton

4 Style P - Poppet

5 Valve Housing Material Omit for cartridge only A - Aluminum S - Steel

Port Size

Code	Port Size Housing Number					
		Aluminum Light Duty	Aluminum Fatigue Rated	Steel Fatigue Rated		
0	Cartridge only					
3B	3/8" BSPP	02-175462	_	-		
6T	SAE 6	566151	_	02-175100		
8T	SAE 8	_	_	02-175101		
2G	1/4" BSPP	-	876702	02-175102		
3G	3/8" BSPP	- ,	876703	02-175103		
6H	SAE 6		876700	_		
8H	SAE 8	_	876701	_		

See section J for housing details.

Free Flow Cracking Pressure

5 - 0.34 bar (5 psi) (Anti-cavitation)

15 - 1.03 bar (15 psi)

25 - 1.70 bar (25 psi)

50 - 3.40 bar (50 psi)

8 | Special Features

00 - None (Only required if valve has special features, omitted if "00")

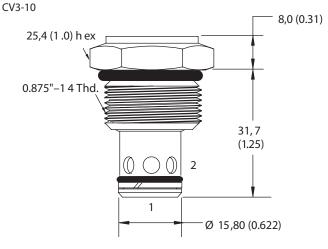
SS - 316 Stainless Steel external components

Dimensions

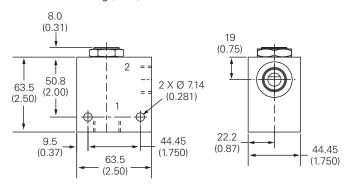
mm (inch)

Note: Torque cartridge in housing A - 47 -54 Nm (35-40 ft. lbs) S - 68 - 75 Nm (50-55 ft. lbs)

Cartridge Only **Basic Code**



Installation Drawing (Steel)





WARNING

The cavity should be machined to 14,29

(0.562) maximum diameter and 36,00 (1.417) maximum depth (see cavity detail, page M-12)



WARNING

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings must be used for operating pressures

above 210 bar (3000 psi).



