

CV2-20

Check valve

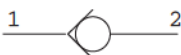
Description

The CV2-20-P is a poppet type, screw-in cartridge check valve.

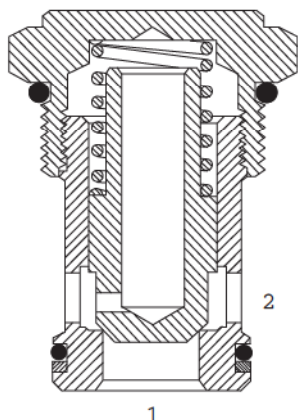
Operation

This valve remains closed until the spring bias is reached at port 1 at which time the poppet lifts off the seat and allows flow from port 1 to port 2.

Functional Symbol



Sectional View



RATINGS AND SPECIFICATIONS

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)

Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	227 L/min (60 USgpm)
Free flow cracking pressure @1 L/min (0.25 USgpm)	5 – 0,34 bar (5 psi) 15 – 1,03 bar (15 psi) 30 – 2,07 bar (30 psi) 60 – 4,14 bar (60 psi) 100 – 6,90 bar (100 psi)
Internal leakage, Port 2 to 1	5 drops / min. maximum @210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-20-2
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
Weight cartridge only	0,49 kg (1.09 lb)
Seal kit	889615 Buna-N 889619 Viton®

Viton is a registered trademark of E.I.DuPont

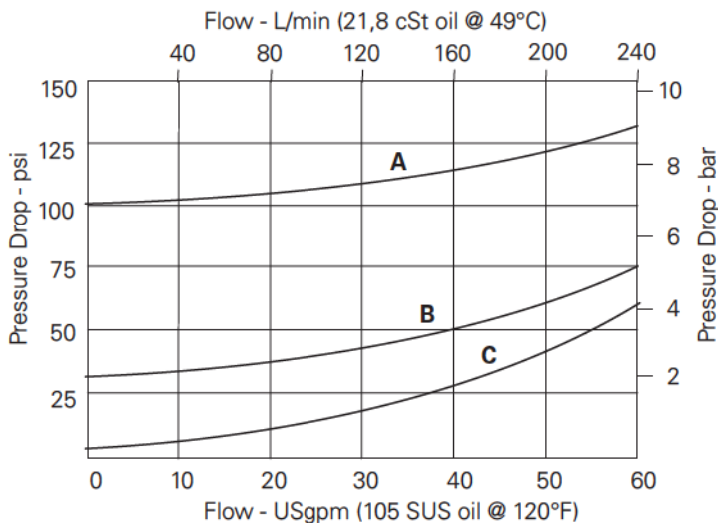
Pressure Drop Curves

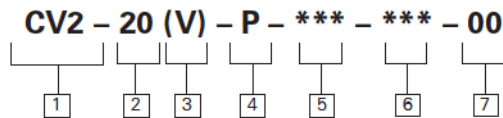
Cartridge only

A – CV2-20-P-O-100

B – CV2-20-P-O-30

C – CV2-20-P-O-5





1 Function
CV2 – Check valve

2 Size
20 – 20 Size

3 Seals
Blank – Buna-N
V – Viton®

4 Style
P – Poppet

5 Port size
0 – Cartridge only

CODE	PORT SIZE	HOUSING NUMBER	
		Aluminum Light duty	Aluminum Fatigue rated
8B	1" BSPP	02-175464	–
16T	SAE 16	566409	–
6G	3/4" BSPP	–	876732
8G	1" BSPP	–	876734
12H	SAE 12	–	876733
16H	SAE 16	–	876735

See Section J for housing details.

6 Free flow cracking pressure
5 – 0,34 bar (5 psi)
 (Anti-cavitation)
15 – 1,03 bar (15 psi)
30 – 2,07 bar (30 psi)
60 – 4,14 bar (60 psi)
100 – 6,90 bar (100 psi)

7 Special Features
00 – None
 (Only required if valve has special features - omitted if "00")

Dimensions

mm (inch)

Torque cartridge in aluminum housing
 128-155 Nm (95-115 ft. lbs)

