

- Standard and High performance variant
- Poppet design
- Leakfree closure in one direction
- Four cracking pressures



Functional Description

The check valve serves the leak free closure in one direction and allows flow in the opposite direction. The poppet design provides leak free closure.

The seat is created directly in the valve housing (1) and the small ball (2) is pushed by spring (3) through the thumb ring (4)* onto the seat. The cracking pressure depends on the spring selected, its preloading and the

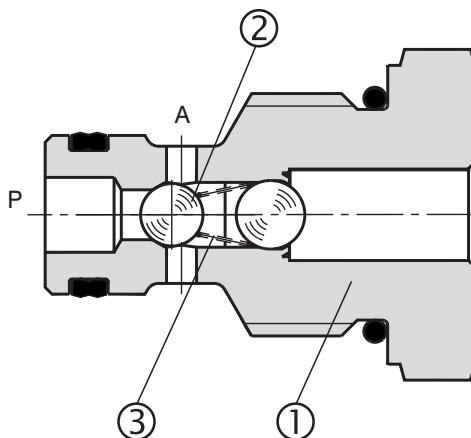
pressurized poppet surface area. Four* cracking pressures are available.

The surface of the valve housing is zinc coated.

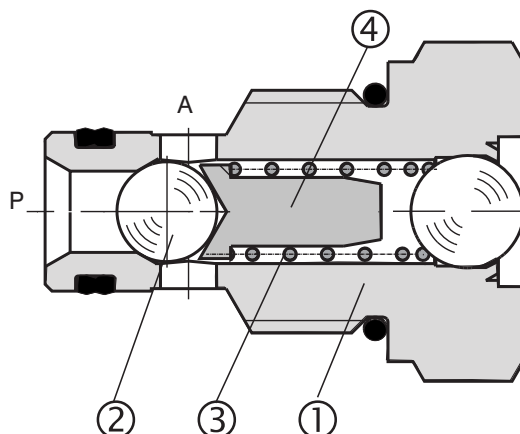
* With the High performance valve

Cartridge Valve

Standard performance



High performance



Ordering Code

SC1F-A2 /

Check Valves

Standard
High performance

S
H

no designation
V

Seals

NBR
FPM (Viton)

Cracking pressure

0.5 bar (7.2 PSI)
1.5 bar (21.7 PSI)
3.5 bar (50.7 PSI)
7.0 bar (101.5 PSI)

***005**
015
035
070

* The cracking pressure with a standard valve is 0.5 bar (7.25 PSI)

Technical Data

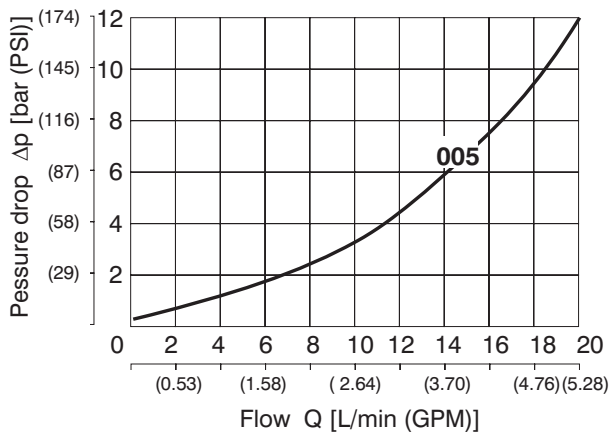
		Standard	High performance
Cartridge thread		3/4 16UNF - 2B	
Maximum flow rate	L/min (GPM)	20 (5.3)	40 (10.6)
Max. operating pressure	bar (PSI)	350 (5076)	420 (6091)
Cracking pressure	bar (PSI)	0,5* 1,5	3,5 7,0
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524	
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 ... +212)	
Fluid temperature range (Viton)	°C (°F)	-20 +120 (-4 ... +248)	
Viscosity range	mm ² /s (SUS)	10 ... 500 (49 ... 2450)	
Maximum degree of fluid contamination		Class 21/18/15 according to ISO 4406 (1999)	
Maximum valve tightening torque	Nm (lbf.ft)	30+2	
Maximum plastic nut tightening torque	Nm (lbf.ft)	4+2	
Weight	kg(lbs)	0,05	0,06
Mounting position		optional	

* The cracking pressure with a standard valve is 0.5 bar (7.25 PSI)

Δp-Q Characteristics

Measured at v = 32 mm²/s (156 SUS)

Standard valve



High performance valve

