



Pilot Check Valves

SP.C0.S08 Valve Series

Hybrid SAE08 Cartridge – 420 Bar

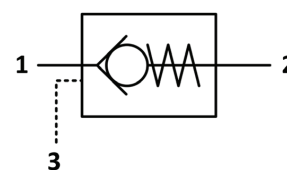
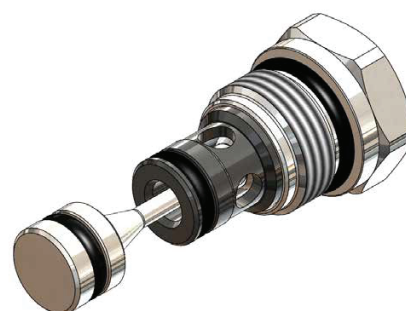
Direct acting check valve

Pilot piston to open

PILOT CHECK VALVES

Description & Operation

Normally closed, dual pilot check valve. Cartridge is closed until sufficient pressure is applied on port 1 to reach the bias spring setting, lift the poppet and allow free flow to 2. The valve is normally closed from 2 to 1. When sufficient pressure is applied on port 3, the pilot piston lifts the poppet from its seat and allows flow from 2 to 1. Very limited leakage in the check condition

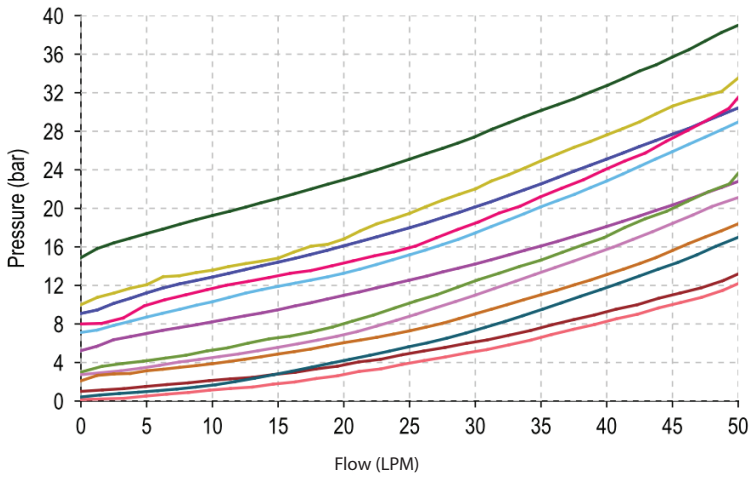


Hydraulic Symbol

Technical Data

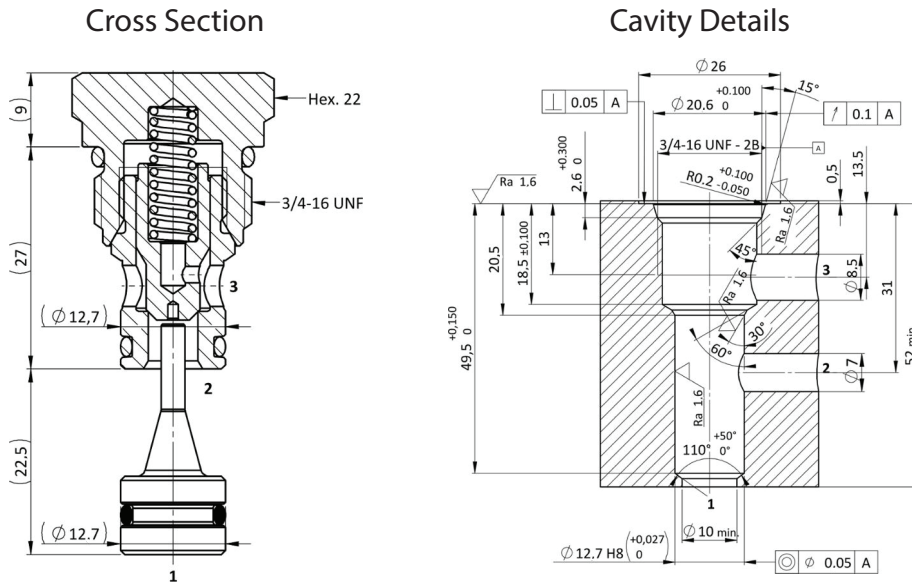
Maximum operating pressure	420 Bar
Maximum flow	50 LPM
Maximum internal leakage	0.10 cm ³ / min @ 10 Bar 0.10 cm ³ / min @ 420 Bar
Pilot Ratio	4.5:1
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h)
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Fluids	Mineral - based or synthetics with lubricating properties
Viscosities	7.4 to 420 cSt
Filtration	20/18/15 ISO 4406 (maximum filtration admitted)
Orientation	No restrictions
Installation torque	40-45-22 Nm
Oil testing condition	ISO VG 46 cSt
Seal kit code	SK.045
Weight	0.068 kg

Performance Curve



Note:
The performance chart illustrates flow handling capacity for standard bias springs. p/Q curves are recorded at TOil = 40°C and 46 cSt

Dimensional Drawing



Ordering Code

S P • C 0 • S 0 8 • 0 * • 0 0 0

valve basic code

Cavity
S08 = 3/4 - 16 UNF with $\phi 12.7$ nose size

Marking
0 = standard factory marking. customized marking can be done upon request

000 = standard configuration

Options
4 = Without O-Ring on the pilot piston

Bias spring Options

Spring model Code	Cracking Pressure (Bar)	Spring model Code	Cracking Pressure (Bar)
Y	0.5	P	5.0
N	1.0	G	8.0
S	2.5	V	9.0
B	3.0	W	15.0

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