



Pilot Check Valves

SP.C5.S10 Valve Series

Hybrid SAE10 Cartridge – 350 Bar

Direct acting check valve

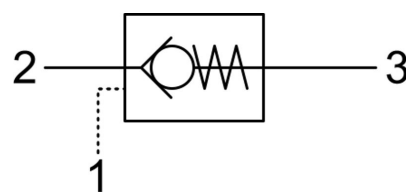
Pilot piston to open

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.



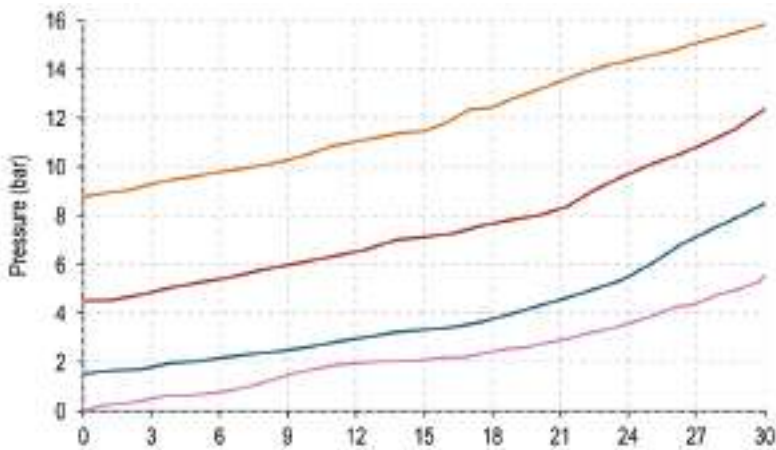
Hydraulic Symbol



Technical Data

| | |
|------------------------------|---|
| Maximum operating pressure | 350 Bar |
| Maximum flow | 30 LPM |
| Maximum internal leakage | 0.10 cm ³ / min @ 10 Bar 0.10 cm ³ / min @ 350 Bar |
| Pilot Ratio | 7:1 |
| 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 | 80-85 Nm |
| Oil testing condition | ISO VG 46 cSt |
| Seal kit code | SLKT.037 |
| Weight | 0.102 kg |

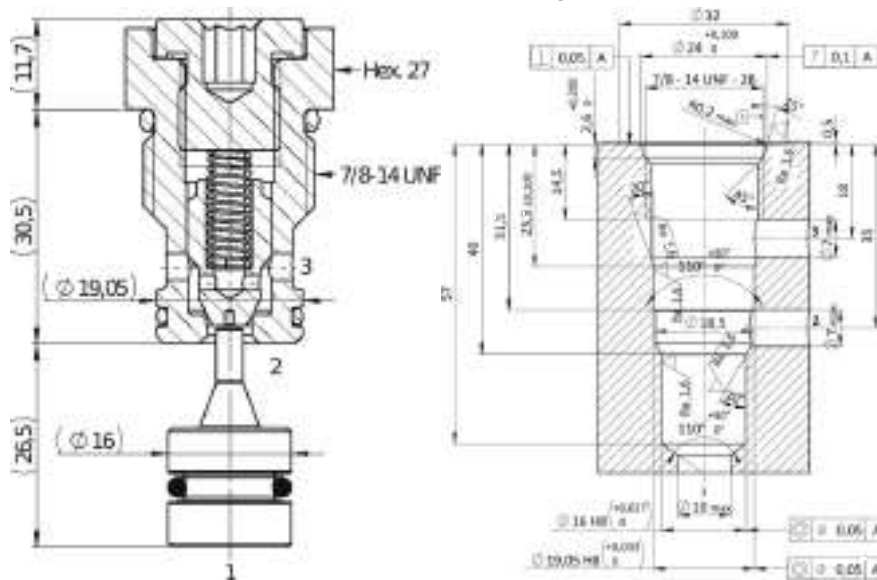
 Performance Curve



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

Cross Section and Cavity Details



 Ordering Code

S P • C 5 • S 1 0 • 0 * • 0 0 0

valve basic code

Options
4=Without O-Ring on the pilot piston

Cavity
S10 = 7/8 - 14 UNF with $\varnothing 19.5$ nose size

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

000= standard configuration

Bias spring

| Spring model Code | Cracking Pressure (Bar) |
|-------------------|-------------------------|
| N | 1.5 |
| B | 4.5 |