



# Pilot Check Valves

## SP.C5.S10 Valve Series

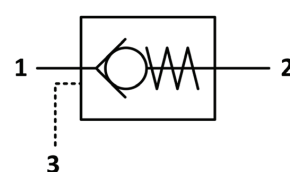
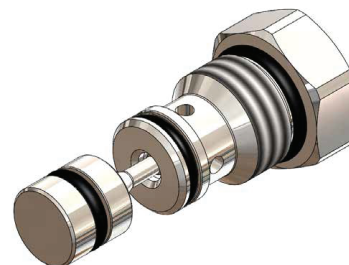
### Hybrid SAE10 Cartridge - 350 Bar

#### Direct acting check valve

#### Pilot piston to open

#### 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.

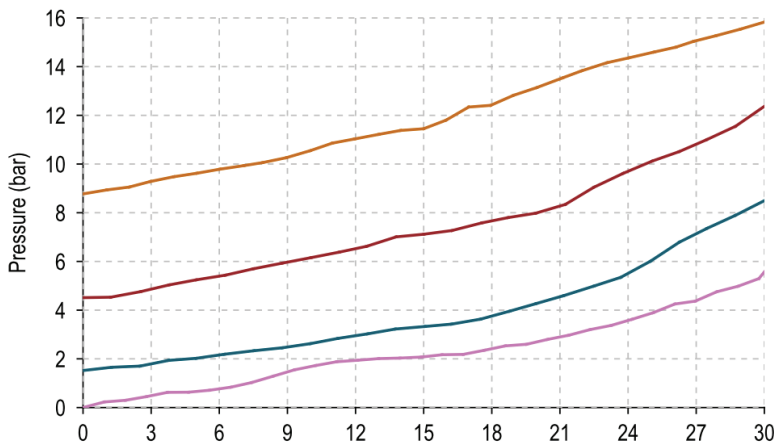


Hydraulic Symbol

#### Technical Data

Maximum operating pressure	350 Bar
Maximum flow	30 LPM
Maximum internal leakage	0.10 cm <sup>3</sup> / min @ 10 Bar 0.10 cm <sup>3</sup> / 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	SK.037
Weight	0.102 kg

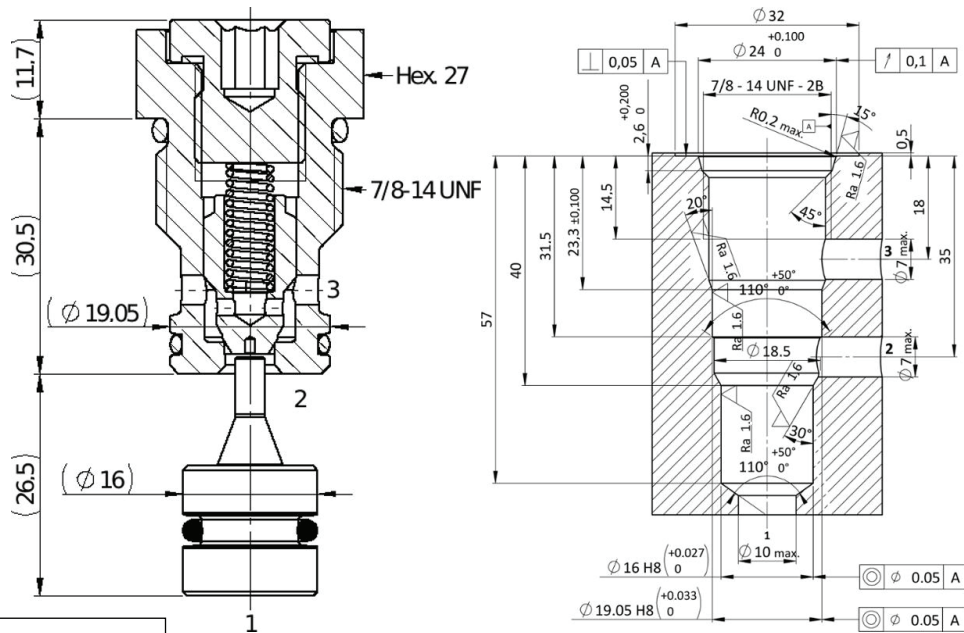
**Performance Curve**



**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**



**Ordering Code**

**S P • C 5 • S 1 0 • 0 \* • 0 0 0**

valve basic code

Cavity  
S10 = 7/8 - 14 UNF  
with ø19.5 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**

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