Pilot Check Valves



SP.C4.M18 Valve Series

METRIC Cartridge - 350 Bar Direct acting check valve Pilot piston to open

Description & Operation

Cartridge style, normally closed, single pilot check valve. Cartridge is closed until suffcient 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 suffcent 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

350 Bar
40 LPM
0.10 cm³ / min @ 10 Bar 0.10 cm³ / min @ 350 Bar
3.2:1
Zn/Fe - standard (96h) Zn/Ni (720h)
-30° C to 110° C (standard sealing NBR - BUNA-N)
-30° C to 110° C
Mineral - based or synthetics with lubricating properties
7.4 to 420 cSt
20/18/15 ISO 4406 (maximum filtration admitted)
No restrictions
35 - 40 Nm
ISO VG 46 cSt
SLKT.041
0.060 kg

🛆 Performance Curve Note: 50 45 40 35 40°C and 46 cSt Pressure (bar) 30 25 20 15 10 5 0 0 8 12 16 20 24 28 32 36 40 Flow (LPM) 🛕 Dimensional Drawing **Cross Section and Cavity Details** @23 Hex. 22 \$\$19,8 0 (0.100 10 M18 x 1,5 - 6H H0.100 0,05 A 4 Ra 1.5 M18 x 1,5 2 m 0.6,5 min. 28 (Ø15 Rs 1,6 20 (44,4) 2 Ra 1,6 2ª $(\emptyset 14)$ 1_{+7,50} (Ø 14 0 (0 14 0 +0,050 (0 15 0 (0 0 0,05 A) (0 0 0,05 A) **Ordering Code** 4 Μ 8 S Ρ С 0 0 000= standard configuration valve basic code Marking 0 = standard factory Cavity marking. cutomized M18 = METRIC M18 x Options marking can be done 1.5 with ø15 and ø14

The performance chart illustrates flow handling capacity

for standard bias springs. p/Q curves are recorded at TOil =

6=Without O-Ring

on the pilot piston

nose size

upon request

Spring model

code

Y

Ν

S

В

Bias spring

Spring model

code

Ρ

G

V

W

Cracking pressure (Bar)

< 0.5

1.0

2.5

3.0

0

Cracking pressure (Bar)

5.0

8.0

9.0

15.0

0