



Pilot Check Valves

SP.C4.M22 Valve Series

METRIC Cartridge - 350 Bar

Direct acting check valve

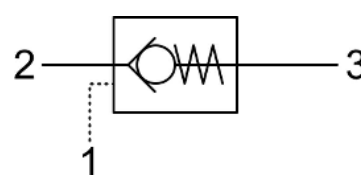
Pilot piston to open

PILOT CHECK VALVES



Description & Operation

Cartridge style, normally closed, single 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.



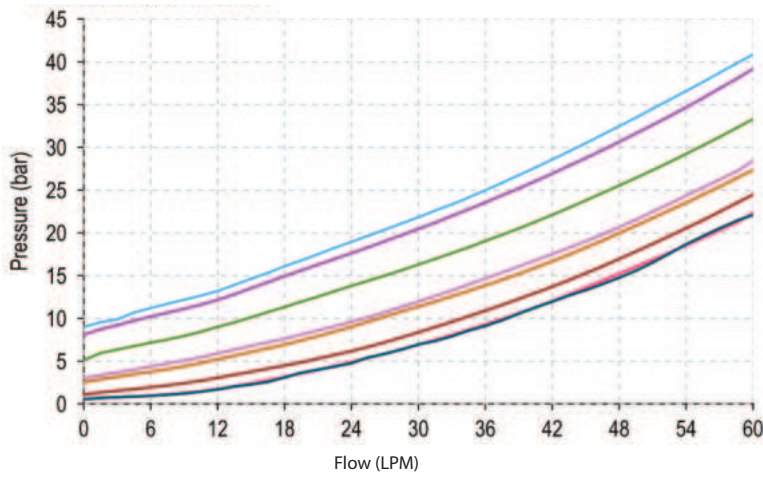
Hydraulic Symbol



Technical Data

Maximum operating pressure	350 Bar
Maximum flow	60 LPM
Maximum internal leakage	0.10 cm ³ / min @ 10 Bar 0.10 cm ³ / min @ 350 Bar
Pilot Ratio	3.4:1
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	55-65 Nm
Oil testing condition	ISO VG 46 cSt
Seal kit code	SLKT.042
Weight	0.110 kg

Performance Curve

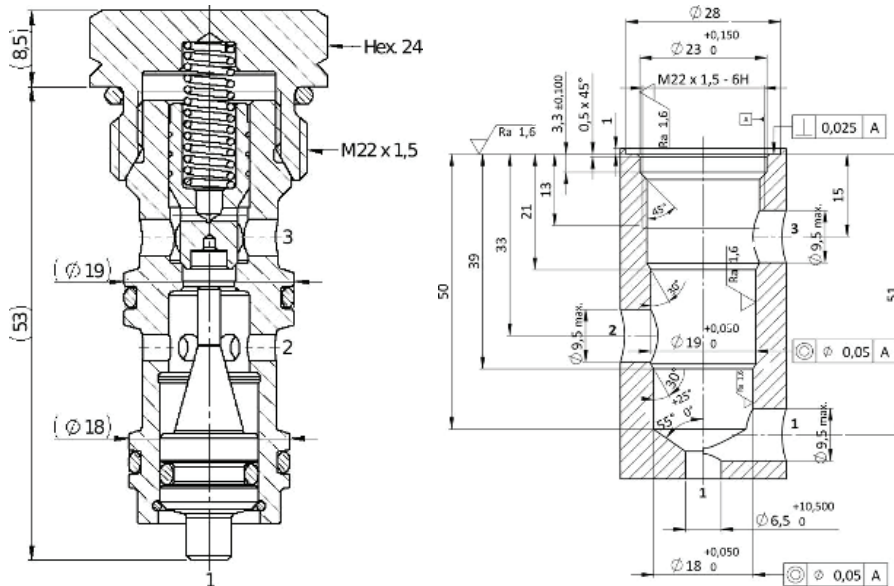


Note:

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 4 • M 2 2 • 0 * • 0 0 0

valve basic code

Options
6=Without O-Ring on the pilot piston

Cavity
M22 = METRIC M22 x 1.5 with Ø19 and Ø18 nose sizes

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

000= standard configuration

Bias spring

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

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