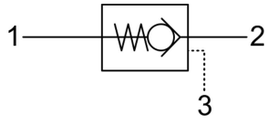
PCRO.S10 VALVE SERIES

SAE Cartridge - 350 bar

Direct acting check valve

Pilot piston to open

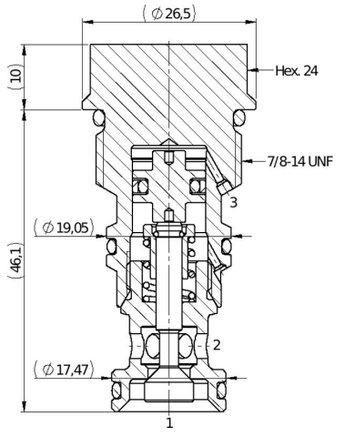
HYDRAULIC SYMBOL



DESCRIPTION

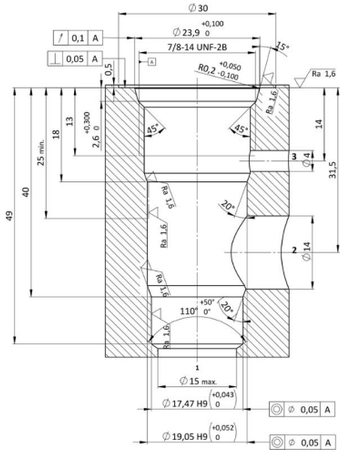
Cartridge style, normally closed, single pilot check valve. Cartridge is closed until sufficient pressure is applied on port 2 to reach the bias spring setting, lift the poppet and allow free flow to 1. The valve is normally closed from 1 to 2. When sufficent pressure is applied on port 3, the pilot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

CROSS SECTION

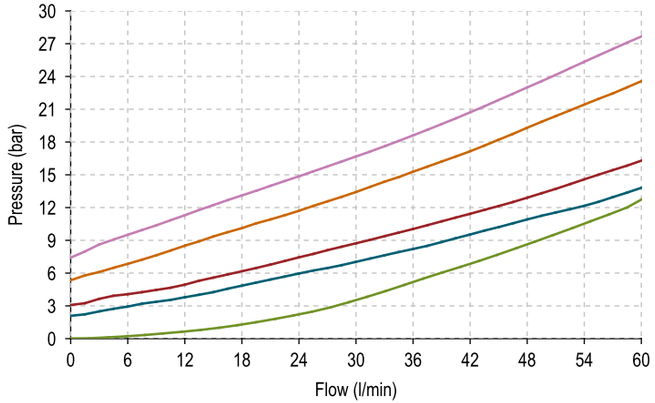


CAVITY

SAE10-1



PERFORMANCE DETAILS



NOTE

The performance chart illustrates flow handling capacity for significant spring options.
p/Q curves are recorded at TOil = 40°C and 46 cSt.

LEGEND

- Spring Y
- Spring N
- Spring B
- Spring G
- 1vs2 Piloted

TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	350 bar
MAXIMUM FLOW	60 l/min
MAXIMUM INTERNAL LEAKAGE	0,10 cm^3 / min @ 10 bar 0,10 cm^3 / min @ 350 bar
PILOT RATIO	3:1
EXTERNAL COMPONENT TREATMENT	Zn/Fe - standard (96h) Zn/Ni (720h) (Upon customer request)
O-RING TEMPERATURE RANGE	-30° C to 110° C (standard sealing NBR - BUNA - N) -35° C to 140° C (HNBR - Upon customer request) -23° C to 225° C (FKM - Upon customer request)
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	45-50 Nm Hex.24
TECH. SPEC. FOR CHARACTERIZATION	see page 811
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.048 (standard sealing NBR-BUNA-N)
WEIGHT	0,110 kg

ORDERING CODE

P	C	R	0	·	S	1	0	·	0	*	·	0	0	0

VALVE BASIC CODE

OPTIONS

0 = Standard configuration

4 = Without O-Ring on the pilot piston

SIZE

7/8-14 UNF with Ø19,05 and Ø17,47 nose sizes

MARKING

0 = Standard factory marking. Customized marking can be done upon request.

000 = Standard configuration.

BIAS SPRING OPTIONS

Spring model code	Cracking pressure (bar)
Y	2,0
N	3,0
B	5,0
G	7,0

Specifications may change without notice.