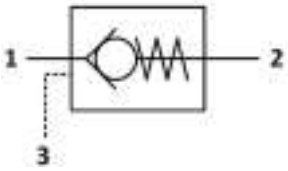
SP.C0.S10 Valve Series

Hybrid SAE10 Cartridge - 420 Bar
Direct acting check valve -
Pilot piston to open



Hydraulic Symbol

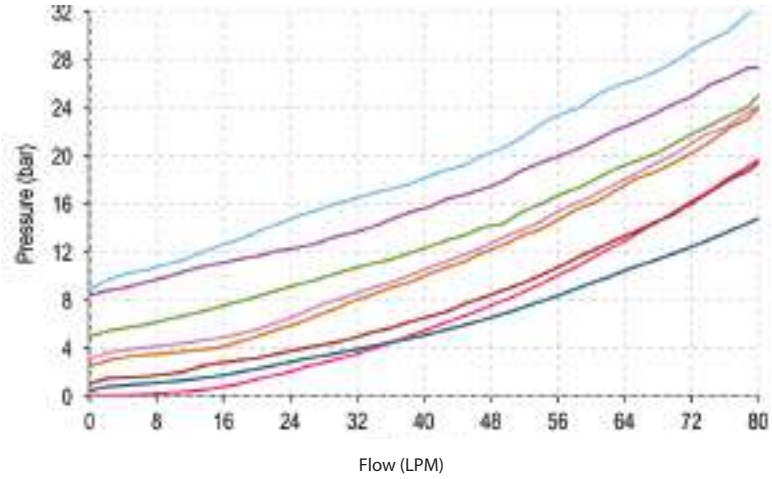
Description & Operation

Normally closed, dual 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

Technical Data

Maximum operating pressure	420 Bar
Maximum flow	80 LPM
Maximum internal leakage	0.10 cm^3 / min @ 10 Bar 0.10 cm^3 / min @ 420 Bar
Pilot Ratio	3.9:1
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.080
Weight	0.100 kg

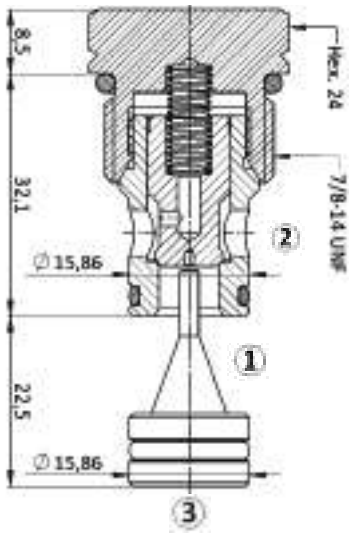
Performance Curve

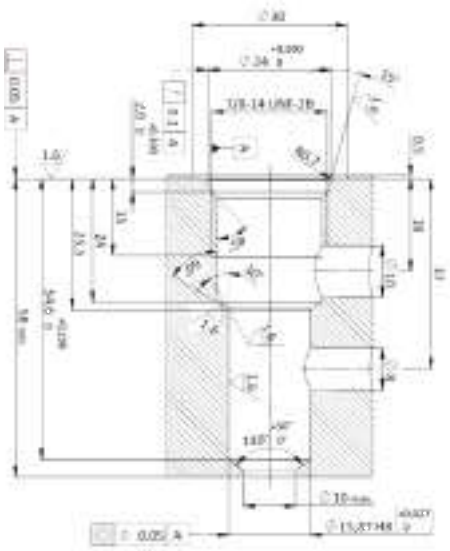


Note:
The performance chart illustrates flow handling capacity for standard bias springs. p/Q curves are recorded at TOil = 40°C and 46 cSt

Dimensional Drawing

Cross Section and Cavity Details





Ordering Code

S	P	•	C	0	•	S	1	0	•	0	*	•	0	0	0

valve basic code

Options
B=Without O-Ring on the pilot piston

Cavity
S10 = 7/8 - 16 UNF with ø15.86 nose size

Marking
0 =standard factory marking. cutomized 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
B	3.0		