

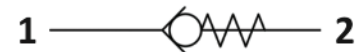


S.D0.G12 Valve Series

METRIC Cartridge - 350 bar
Direct acting - Poppet type

Description & Operation

A screw-in, direct acting, poppet type in-line check valve. Main use is as a blocking or load-holding device. The S.D0.G12 allows flow passage from port 1 to 2: the cartridge has a fully guided check which is spring-biased closed until sufficient pressure is applied at port 1 to open to 2. The flow is blocked in the opposite direction (2 to 1).

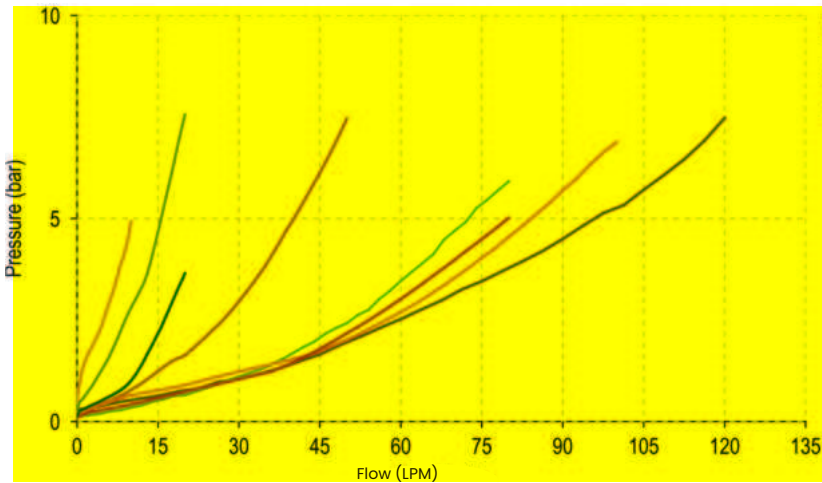


Hydraulic Symbol

Technical Data

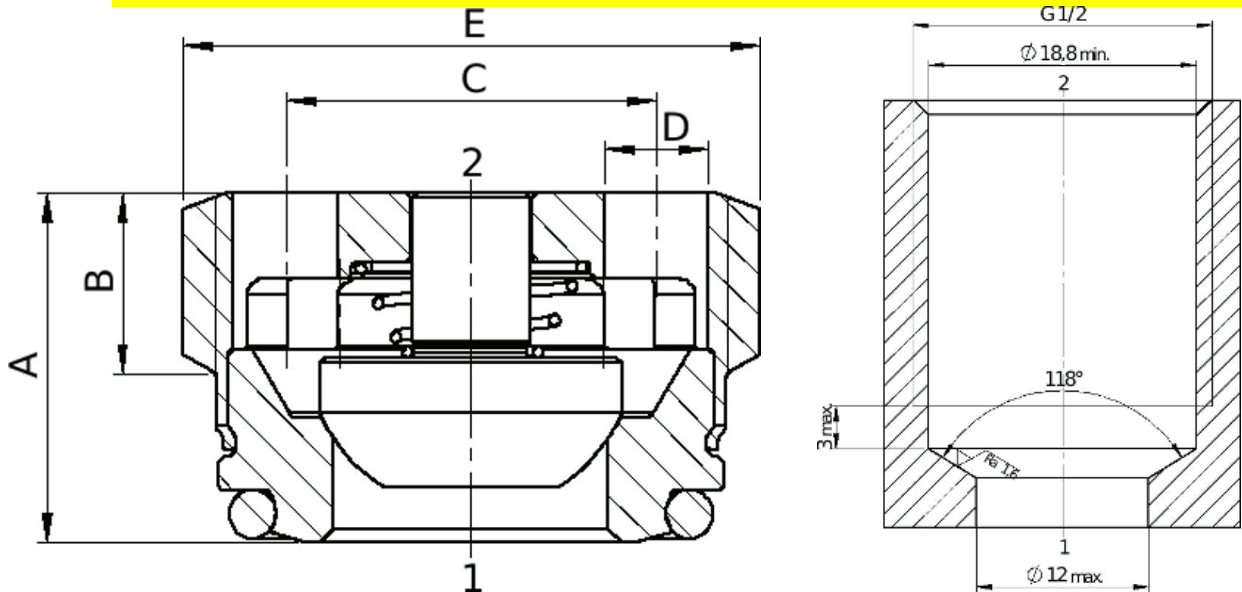
Maximum operating pressure	350 Bar
Maximum flow	80 LPM
Maximum internal leakage	0.1 cm ³ / min @ 10 Bar 0.1 cm ³ / min @ 350 Bar
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h)
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° 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	30 Nm
Oil testing condition	ISO VG 46 cSt
Seal kit code	SK.148
Weight	0.019 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 • D 0 • G 1 2 • 0 * • 0 0 0

valve basic code 000= standard configuration

Cavity
M16 = METRIC M16 x 1

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

Bias spring Options

Spring model Code	Cracking Pressure (Bar)
X	3.0
Y	118
Z	12.9
W	07