## S.C0.S16 Valve Series

### SAE16 Cartridge - 350 Bar
### Direct acting - Poppet type

### Description & Operation

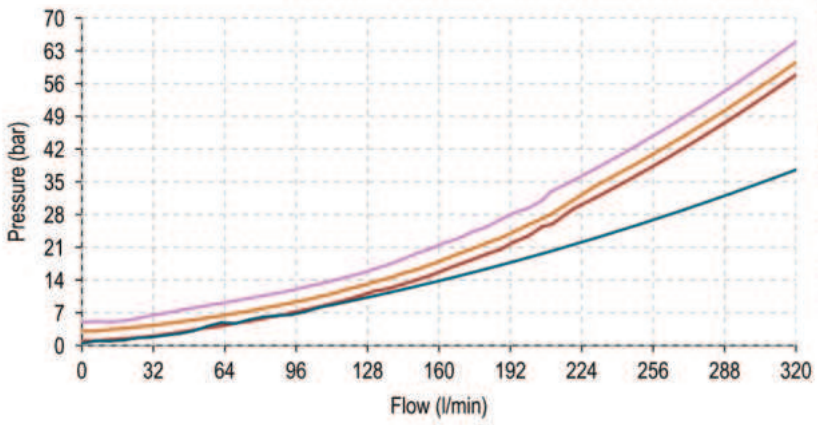
A screw-in, cartridge style, direct acting, poppet type check valve. Main use is as a blocking or load-holding device.The S.C0.S16 allows flow passage from port 1 to 2: the cartridge has a fully guided check which is spring-biased closed until suffcient pressure is applied at port 1 to open to 2. The flow is blocked in the opposite direction (2 to 1)


Hydraulic Symbol

### Technical Data

| | |
|---|---|
| Maximum operating pressure | 350 Bar |
| Maximum flow | 320 LPM |
| Cracking pressure | See table below |
| Maximum Internal Leakage | 0.10 $cm^3$ / min @ 10 Bar<br>0.10 $cm^3$ / min @ 350 Bar |
| External component treatment | Zn/Fe - standard (96h)<br>Zn/Ni (720h) (Upon Request) |
| 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 | 150-160 Nm |
| Oil testing condition | ISO VG 46 cSt |
| Seal kit code | SLKT.074 |
| Weight | 0.290 kg |

## Performance Curve



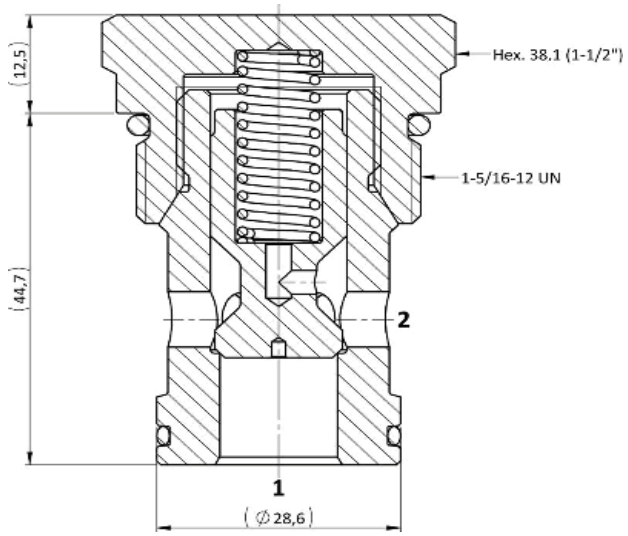

**NOTE**
The performance chart illustrates flow handling capacity for significant spring bias options.
P/Q curves are recorded at TOil =40°C and 46 cSt.
P/Q curves are recorded up to 2001/LPM These are theoretical 200 l/LPM Onward.

**LEGEND**

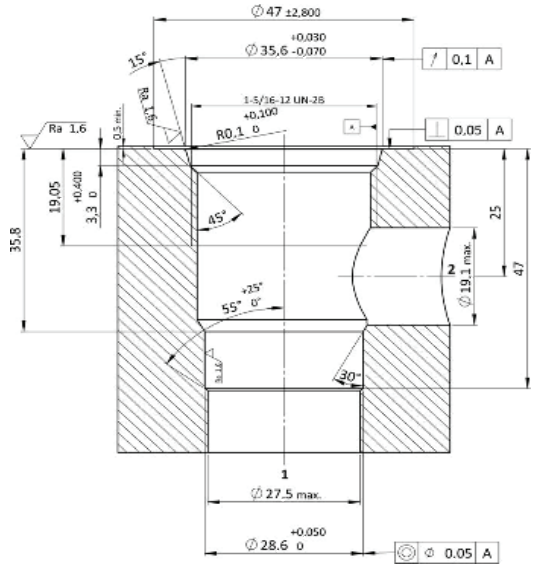
- Spring Y
- Spring N
- Spring B
- Spring P

## Dimensional Drawing

CROSS SECTION




CAVITY DETAILS




## Ordering Code

| S | • | C | 0 | • | S | 1 | 6 | • | 0 | * | • | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Valve Basic Code**

**Cavity**
S16 = 1-5/16 12-UN
with ⌀ 28. 6 nose size

**000=** Standard Configuration

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

**Bias Spring Options**

| Spring Model Code | Craking Pressure (Bar) |
|---|---|
| Y | 0.5 |
| N | 1.0 |
| B | 3.0 |
| P | 5.0 |