# **Check Valves**

## IS.O.M16 Valve Series METRIC Insert - 420 Bar Direct acting - Poppet type

#### **Description & Operation**

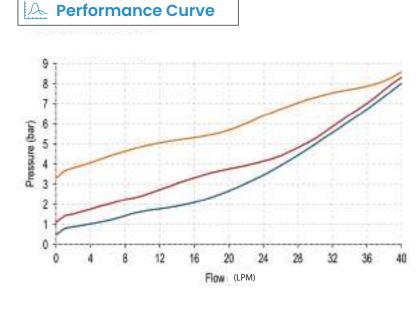
A screw-in, direct acting, poppet type check valve. Main use is as a blocking or load-holding device. The IS.0.M16 allows flow passage from port 1 to 2: the cartridge has a fully guided check which is spring-biased closed until sufficient pressure is applied at port 1 to open to 2. The flow is blocked in the opposite direction (2 to 1). Insert type valve: the poppet seals directly against the cavity



Hydraulic Symbol

## Technical Data

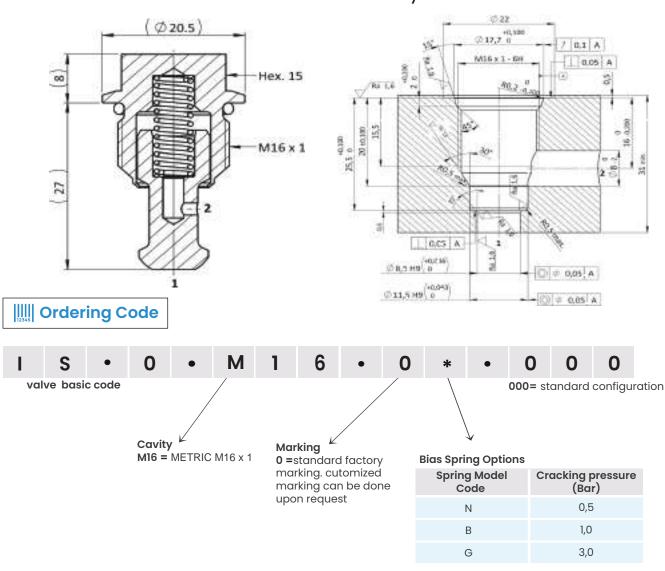
| Maximum operating pressure   | 420 Bar   |
|------------------------------|---|
| Maximum flow                 | 40 LPM  |
| Maximum internal leakage     | 0.10 cm³ / min @ 10 Bar<br>0.10 cm³ / min @ 420 Bar       |
| External component treatment | Zn/Fe - standard (96h) Zn/Ni (720h) upon request          |
| 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 fltration admitted)            |
| Orientation                  | No restrictions   |
| Installation torque          | 30 - 35 Nm Hex 15   |
| Oil testing condition        | ISO VG 46 cSt   |
| Seal kit code                | SLKT.008  |
| Coining Kit                  | CK.001  |
| Weight                       | 0.032 kg  |



#### Note:

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

🛕 Dimensional Drawing



## **Cross Section and Cavity Details**

## 2.01/00