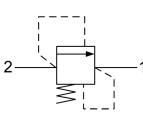
## **IRVO.M18 VALVE SERIES**

METRIC Insert - 420 bar Direct acting - Poppet type





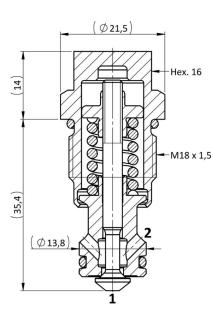
HYDRAULIC SYMBOL

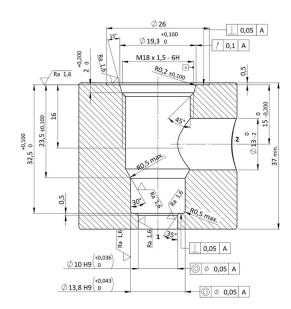
### DESCRIPTION

The IRV valve provides in one compact insert cartridge the typical function of shock relief valve, side-in nose-exhaust. When the pressure at the high pressure inlet (2) reaches the valve setting, the valve starts to open to tank (1). The pressure rise is very low thanks to the smart deflector design. Flow passage in the opposite direction (1 to 2) is blocked. High precision machining quarantees quick response to load changes, limited hysteresis and reduced internal leakage.

### CROSS SECTION

# CAVITY VH002

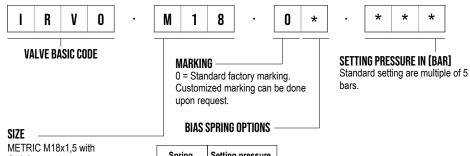




### **TECHNICAL DATA**

MAXIMUM OPERATING PRESSURE	420 bar
MAXIMUM FLOW	60 l/min
SETTING PRESSURE	see table below
MAXIMUM INTERNAL LEAKAGE	1 cm <sup>3</sup> / min at 80 % of nominal set point
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
PRESSURE SETTINGS ESTABLISHED	10 l/min
RESEAT PRESSURE	nominal 90% of cracking pressure
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	35-40 Nm
TECH. SPEC. FOR CHARACTERIZATION	see page 807
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.006 (standard sealing NBR-BUNA-N)
WEIGHT	0,060 kg
<u>.                                      </u>	

#### ORDERING CODE



Ø13,8 nose size

Spring nodel code	Setting pressure range (bar)
N	20-70
В	71-130
G	131-210
V	211-280
W	281-350
R	351-420

Rev. 1 Specifications may change without notice.

## **IRVO.M18 SPRINGS' GRAPHS**

LEGEND

The performance chart illustrates flow handling capacity for significant spring bias options.

p/Q curves are recorded at TOil = 40°C and 46 cSt.

Maximum setting pressure range
Medium setting pressure range
Minimum setting pressure range

