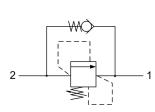
IRRO.M18 VALVE SERIES

METRIC Insert - 420 bar Direct acting with anti-cavitation Poppet type



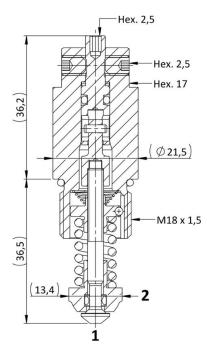


HYDRAULIC SYMBOL

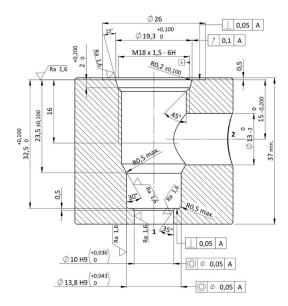
DESCRIPTION

The IRR valve combines in one compact insert cartridge the typical function of shock relief valve and anticavitation through the check valve. In the pressure relief function it's a side-in nose-exhaust valve, with very low pressure rise thanks to the smart deflector design. When the pressure at the high pressure inlet (2) reaches the valve setting, the valve starts to open to tank (1). In the free reverse flow function a very light bias spring allows for ease of flow passage from nose to side (1 to 2). High precision machining guarantees quick response to load changes, limited hysteresis and reduced internal and external leakage.

CROSS SECTION



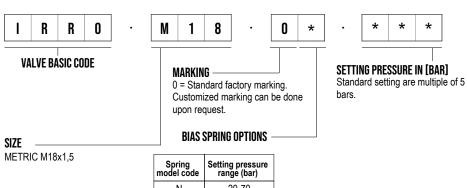
CAVITY VH002



TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	420 bar
MAXIMUM FLOW	60 l/min
SETTING PRESSURE	see table below
ANTI-CAV CRACKING PRESSURE	<0,5 bar
MAXIMUM INTERNAL LEAKAGE	1 cm ³ / 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
NUT TINGHTENING TORQUE	2-4 Nm
TECH. SPEC. FOR CHARACTERIZATION	see page 807
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.005 (standard sealing NBR-BUNA-N)
COINING KIT	CK.002
WEIGHT	0,120 kg

ORDERING CODE



N 20-70 B 71-130 G 131-210

 V
 211-280

 W
 281-350

 R
 351-420

Specifications may change without notice.

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IRRO.M18 SPRINGS' GRAPHS

LEGEND

The performance chart illustrates flow handling capacity for each 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

