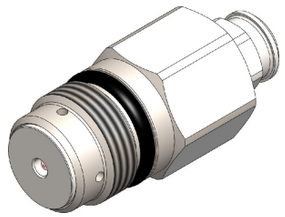
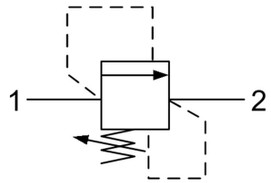
RVBO.M16 VALVE SERIES

METRIC Cartridge - 450 bar

Direct acting - Poppet type



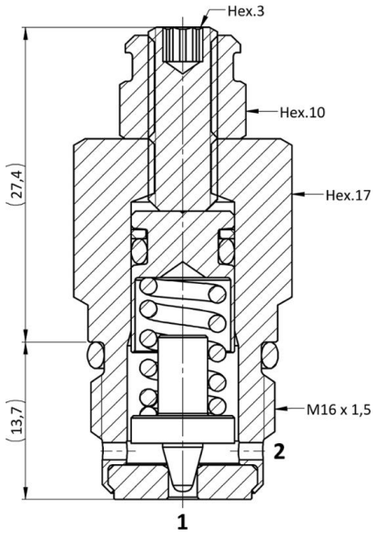
HYDRAULIC SYMBOL



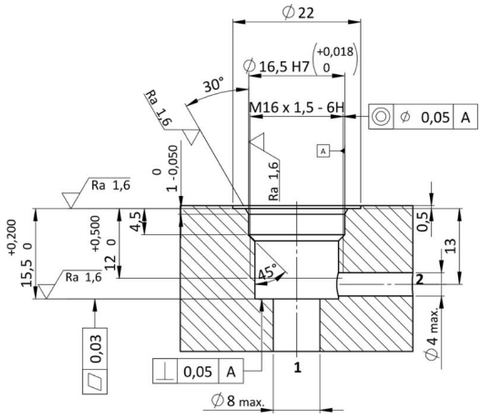
DESCRIPTION

A screw-in, cartridge style, direct acting, poppet type, normally closed hydraulic relief valve. It's typically used to protect hydraulic components from pressure transients. When the pressure at the Inlet (1) reaches the valve setting, the valve starts to open to tank (2) providing a limited pressure rise. The reduced dimensions and the excellent response time make this valve ideally suited for pilot circuits. Hysteresis is also extremely low.

CROSS SECTION



CAVITY VH001



TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	450 bar
MAXIMUM FLOW	1,5 l/min
SETTING PRESSURE	see table below
MAXIMUM INTERNAL LEAKAGE	0,25 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	1.5 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 Hex.17
NUT TINGHTENING TORQUE	6,5-8,5 Nm Hex.10
TECH. SPEC. FOR CHARACTERIZATION	see page 811
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.004 (standard sealing NBR-BUNA-N)
PLASTIC TAMPER PROOF CAP	CTP.002
WEIGHT	0,050 kg

ORDERING CODE

R	V	B	0	·	M	1	6	·	0	*	·	*	*	*

VALVE BASIC CODE

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

SETTING PRESSURE IN [BAR]
000 = No specific setting required.

SIZE
METRIC M16x1,5 (No other cavity options available)

BIAS SPRING OPTIONS

Spring model code	Setting pressure range (bar)	Pressure increment per turn [bar/turn]
Y	1-30	10
N	10-100	56
B	10-250	136
G	10-450	258

NOTE
Customized setting pressure adjustment can be done upon request. see

Specifications may change without notice.

Rev. 1

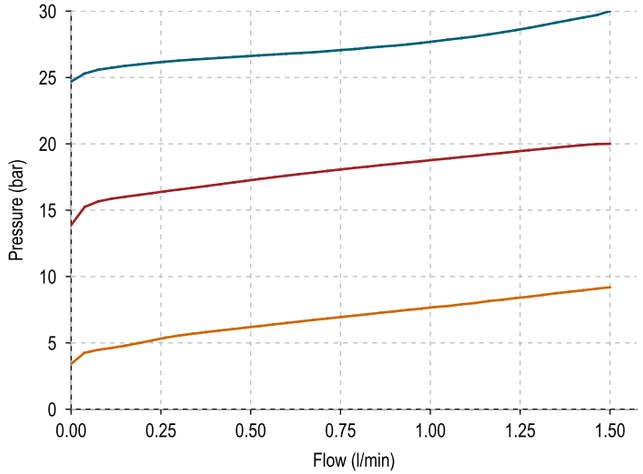
RVBO.M16 SPRINGS' GRAPHS

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

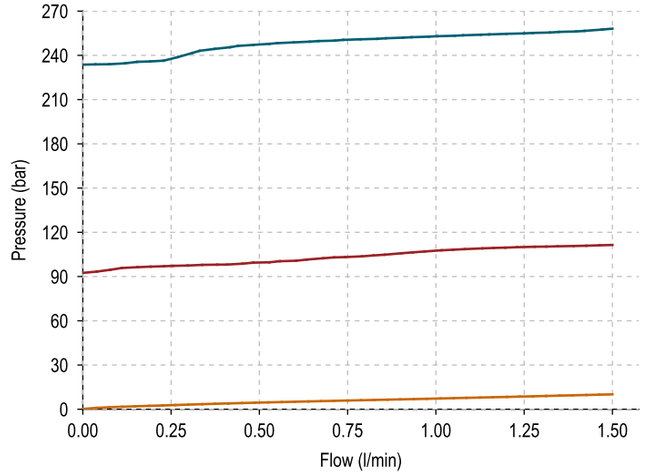
LEGEND

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

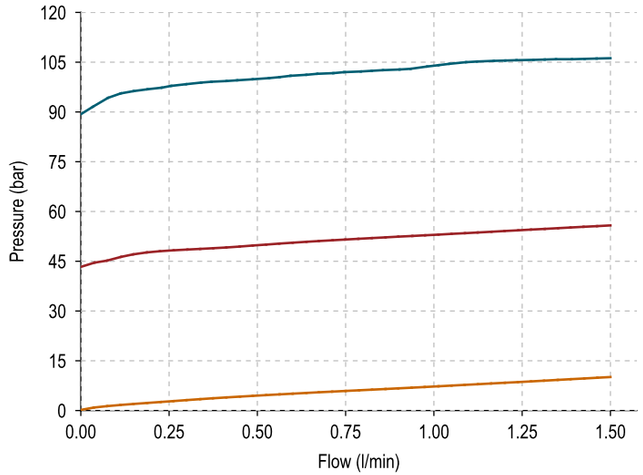
SPRING Y



SPRING B



SPRING N



SPRING G