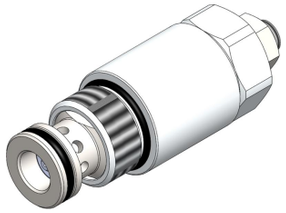
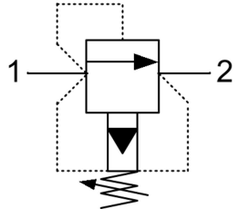
RVQO.M22 VALVE SERIES

METRIC Cartridge - 420 bar

Pilot Operated -Spool Type



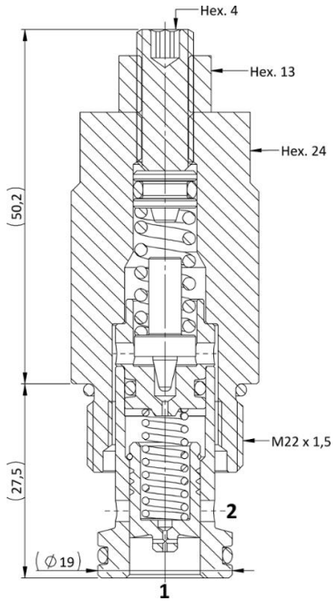
HYDRAULIC SYMBOL



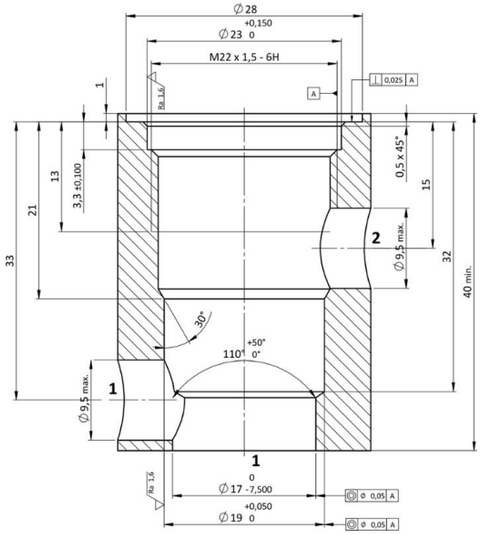
DESCRIPTION

A screw-in, cartridge style, pilot operated (2-stage), spool type, normally closed, hydraulic relief valve. When the pressure at the Inlet (1) reaches the valve setting, the pilot poppet starts to open from its seat and determines the shifting of the main stage poppet (spool type) that throttles oil flow to tank (2). The cartridge offers smooth transition in response to load changes in demanding hydraulic circuits. Fast, smooth response and limited hysteresis.

CROSS SECTION



CAVITY VH045



TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	420 bar
MAXIMUM FLOW	120 l/min
SETTING PRESSURE	see table below
MAXIMUM INTERNAL LEAKAGE	see table below
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	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	55-65 Nm Hex.24
NUT TINGHTENING TORQUE	10-13 Nm Hex.13
TECH. SPEC. FOR CHARACTERIZATION	see page 700
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.052 (standard sealing NBR-BUNA-N)
PLASTIC TAMPER PROOF CAP	CTP.003
WEIGHT	0,207 kg

ORDERING CODE

R	V	Q	0	·	M	2	2	·	0	*	·	0	0	0

VALVE BASIC CODE

SIZE
METRIC M22x1,5 with Ø19 nose sizes

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

BIAS SPRING OPTIONS

Spring model code	Maximum internal leakage [cm³/min]	Pressure setting range [bar]	Pressure increment per turn adjusting ratio [bar/turn]
Y	100	20-280	80
N	100	141-280	130
B	200	281-420	160

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

Specifications may change without notice.

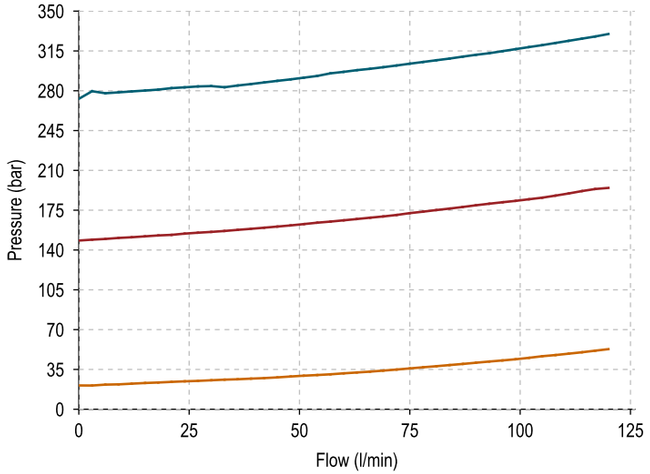
Rev. 1

RVQO.M22 SPRINGS' GRAPHS

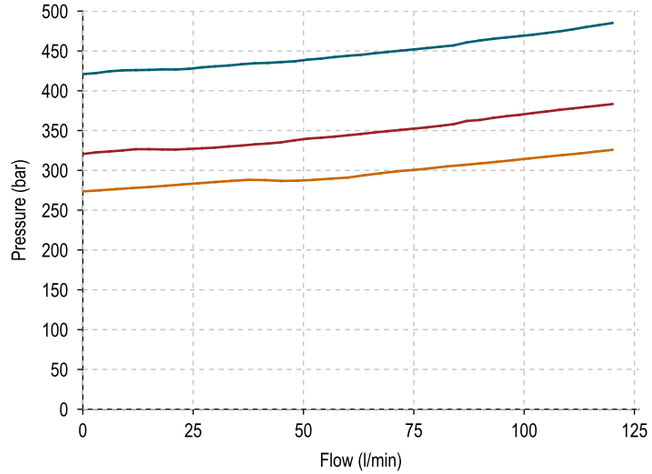
LEGEND

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

SPRING Y



SPRING B



SPRING N