

WINMAN WRVD0.M22.B Serisi Relief Valves

WRVD0.M22.B Valve Series



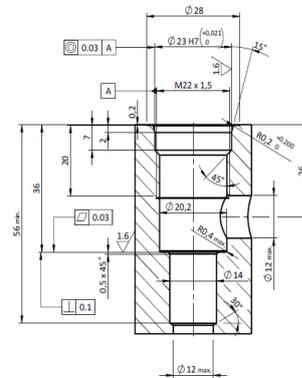
Description

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) throttling flow to minimize the pressure rise. The innovative geometry of the deflector provides in fact a very low rise rate, and the poppet design guarantees great stability. The cartridge offers quick response to load changes in hydraulic circuits requiring low internal leakage as well as limited hysteresis.

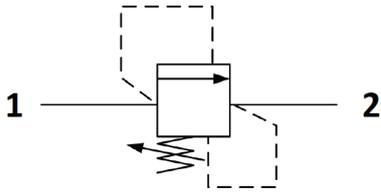
Technical Features

All external surfaces are zinc plated and corrosion-proof. All valve parts are made of high strength steel. Poppet is hardened and ground to guarantee minimal wear and to extend service life. Adjustment screw cannot be backed out of the valve. Optional spring ranges to 420 bar (6000 psi). Metric cavity.

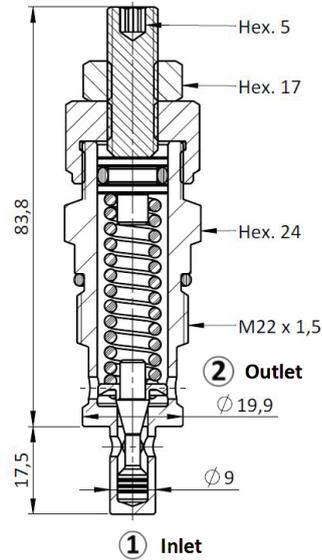
Cavity Details VH162



Symbol



Cross Section



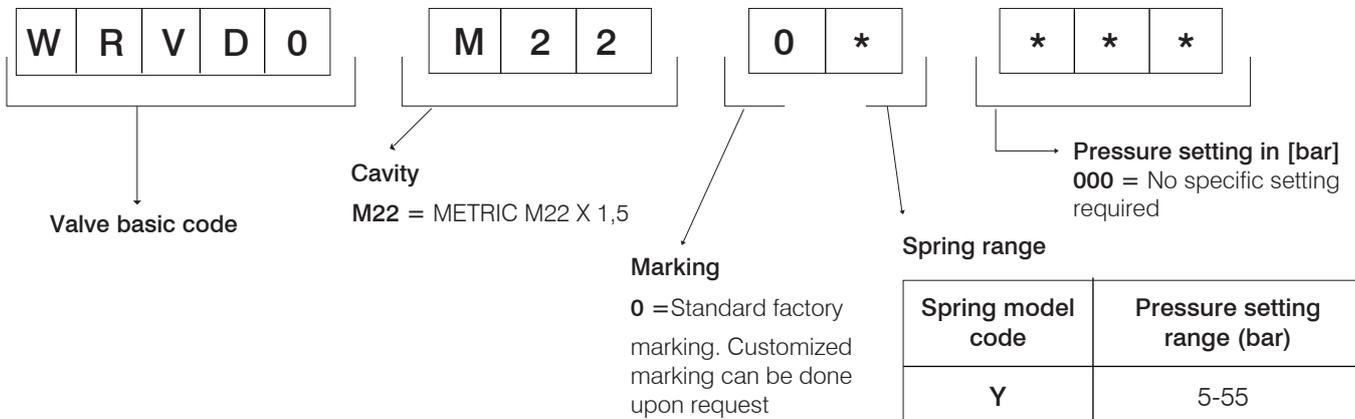
WINMAN WRV10.S08 Serisi Relief Valves Bi-directional

WRV10.S08 Valve Series

Technical Data

Maximum operating pressure	420 bar
Maximum flow	35 l/min
Setting Pressure	See table below
Maximum internal leakage	1 cm ³ /min to 80% of nominal set point
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h)
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Pressure settings established	@5 l/min
Reseat pressure	nominal 85% 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	45-50 Nm (Hex. 24)
Tightening torque nut	20-25 Nm (Hex. 17)
Oil testing condition	ISO VG 46 cSt
Seal kit code	SK.089
Weight	0,192 kg

Ordering Code



Specifications may change without notice.

WINMAN WRVI0.S08 Serisi Relief Valves Bi-directional

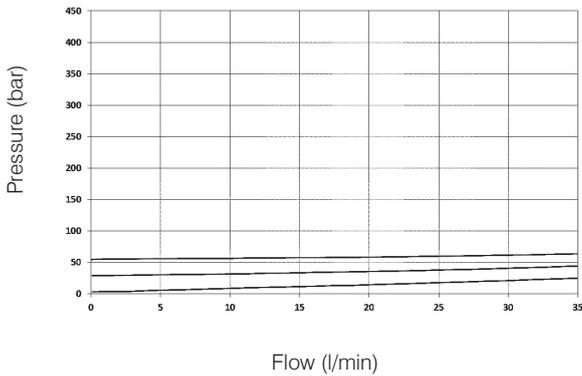
WRVI0.S08 Valve Series

Springs' Graphs

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

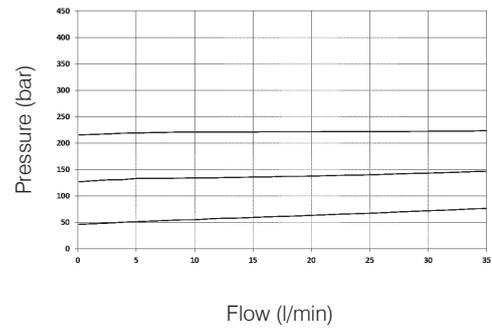
1) Spring = Y (5 - 55bar)

p/Q performance



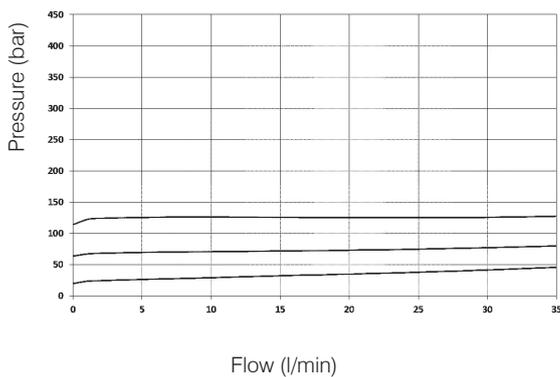
3) Spring = B (50 - 215bar)

p/Q performance



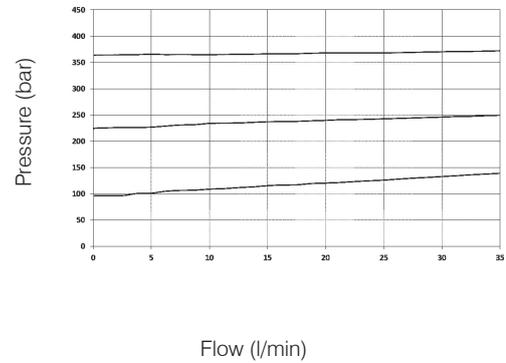
2) Spring = N (25 - 110bar)

p/Q performance



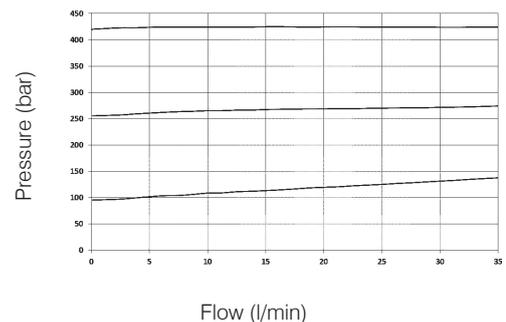
4) Spring = G (100 - 350bar)

p/Q performance



5) Spring = V (100 - 420bar)

p/Q performance



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