

WINMAN WRVI0.S08 Serisi Relief Valves Bi-directional

WRVI0.S08 Valve Series



SAE08 Cartridge - 250 bar Direct acting - Poppet type Bi-directional

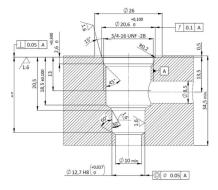
Description

A screw-in, cartrigde style, direct acting, poppet type, normally closed hydraulic bi-directional relief valve. It's typically used to protect hydraulic components from pressure transients. The RVI valve blocks flow from either port 1 or port 2. When the pressure differential between ports 1 and 2 reaches the valve setting, the valve starts to open, throttling flow to minimize the pressure rise, regardless of the inlet flow direction. Both directions have very similar setting pressure performance. The cartridge offers excellent response to load changes in hydraulic circuits requiring low internal leakage as well as limited hyseresis.

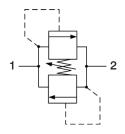
Technical Features

All external surfaces are zinc plated and corrosion-proof. All valve parts are made of high strength steel. Poppet are hardened and ground to guarantee minimal wear and extended service life. Adjustment screw cannot be backed out of the valve. Optional spring ranges to 250 bar (3600 psi). Industry common cavity.

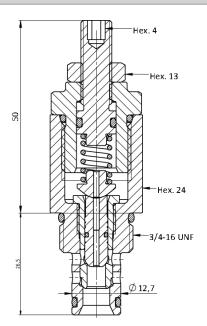
Cavity Details SAE08



Symbol



Cross Section





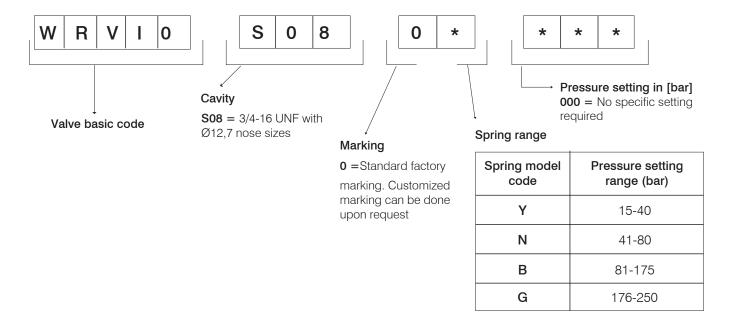
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Technical Data

Maximum operating pressure	250 bar
Maximum flow	30 l/min
Setting Pressure	See table below
Maximum internal leakage	1 cm³ /min to 70% 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 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	40-45 Nm (Hex. 24) 🖏
Tightening torque nut	10-15 Nm (Hex. 13) 🖏
Oil testing condition	ISO VG 46 cSt
Seal kit code	SK.030
Weight	0,150 kg

Ordering Code



Specifications may change without notice.



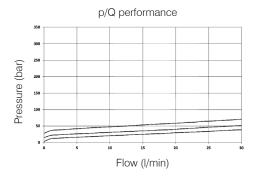
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Springs' Graphs

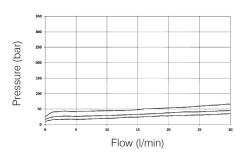
Note: The performance chart illustrates flow handling capacity for each spring bias options. p/Q curves are recorded at TOil = 40°C and 46 cSt

1) Spring = Y (15 - 40bar) - 1 to 2



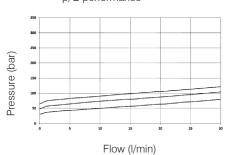
2) Spring = Y (15 - 40bar) - 2 to 1

p/Q performance



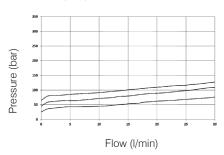
3) Spring = N (41 - 80bar) - 1 to 2

p/Q performance



4) Spring = N (41 - 80bar) - 2 to 1

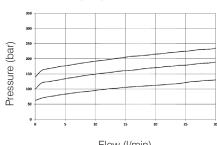
p/Q performance



Specifications may change without notice.

5) Spring = B (81 - 175bar) - 1 to 2

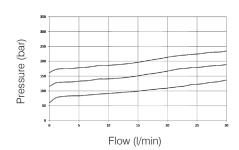
p/Q performance



Flow (I/min)

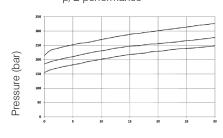
6) Spring = B (81 - 175bar) - 2 to 1

p/Q performance



7) Spring = G (176 - 250bar) - 1 to 2

p/Q performance



Flow (I/min)

4) Spring = G (176 - 250bar) - 2 to 1

p/Q performance

