Relief Valves

RVC0.S10 Valve Series

SAE10 Cartridge - 350 bar

Direct acting - Poppet type



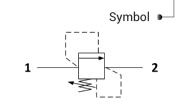
Description

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. NOTE: the RVC0 in the standard configuration can be used in crossover relief applications.

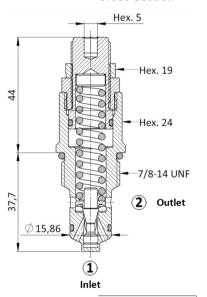
Technical Features

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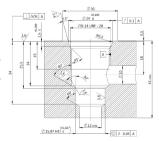
All external surfaces are zinc plated and corrosion-proof. All valve parts are made of high strength steel. Poppet is hardened and ground to guarantee minimal wear and to extend service life. Adjustment screw cannot be backed out of the valve. Positive stop prevents springs from going solid. Optional spring ranges to 350 bar (5000 psi). Industry common cavity.



Cross Section •

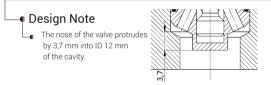


Cavity Details



◆ Technical Data

Maximum operating pressure	350 bar	
Maximum flow	50 l/min	
Setting Pressure	See table below	
Maximum internal leakage	0,25 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 I/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) 🖏	
Tightening torque nut	25-30 Nm (Hex. 19) 🖏	
Technical specifications for characterization	See page 480	
Oil testing condition	ISO VG 46 cSt	
Seal kit code	SK.001	
Plastic tamper proof cap	CTP.001 (for more details see page 428-429)	
Weight	0,170 kg	







Marking 0 = standard factory

0 = standard factory marking. Customized marking can be done upon request

 Pressure setting in [bar]
000 = No specific setting
required

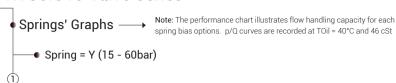
Spring range

Spring model code	Pressure setting range (bar)	Pressure Increment per turn (bar)
Υ	15-60	8
N	25-135	20
В	50-220	33
G	120-350	58

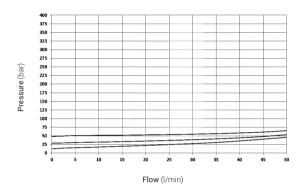
Specifications may change without notice

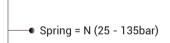
Relief Valves

RVC0.S10 Valve Series



p/Q performance

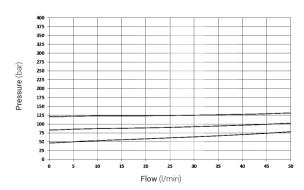




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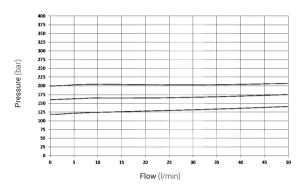
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p/Q performance





p/Q performance





p/Q performance

