3.1

HRV0-S08 TYPE

Relief, Direct-Acting Poppet

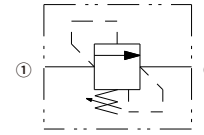
Maximum pressure (bar / psi)	350 / 5000
Peak flow (L/min / gpm)	30 / 8

Features

- All external surfaces are zinc plated and corrosion-proof
- Adjustments cannot be backed out of the valve
- Industry common cavity
- Hardened parts for long life

Contents

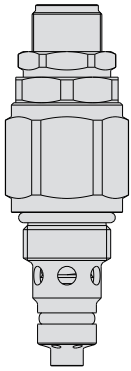
Symbol



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.

Operation



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 HRV0-S08 in the standard configuration can be used in crossover relief applications (back pressure on port 2).

Ordering Code

HRV0-S08 - □ □ - □ □ □

Cavity:
3/4-16 UNF with Ø12.7 nose size — S08

Marking:
Standard factory marking — 0
Customized markings can be done upon request

Spring range:

15-60 bar	Y
25-135 bar	N
50-220 bar	B
120-350 bar	G

Pressure setting in (bar) :
None required — 000

Materials

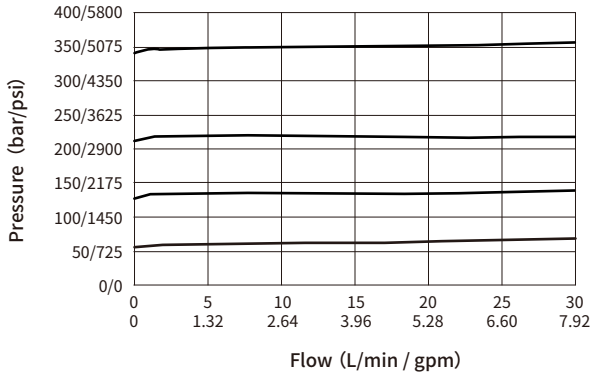
Cartridge:
Weight: 0.15 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces.

Standard Ported Body:
Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

Technical Data

Maximum pressure	350 bar (5000 psi)
Peak flow	30 L/min (8 gpm)
Internal leakage	0.25 mL/min @ 80% of pressure setting
Reseat pressure	nominal 90% of crack pressure
Installation torque	40-45 Nm
Cavity	VC08-2
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm^2/s
Temperature range	-40 to 100 °C
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)