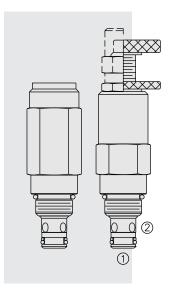
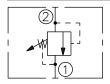
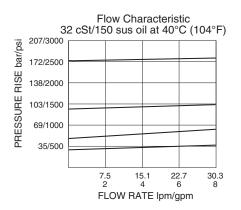
RV08-22 Relief, Direct-Acting, Differential Area



ISO SYMBOL



PERFORMANCE (Cartridge Only)



DESCRIPTION

A screw-in, cartridge-style, direct-acting, differential area, poppet-type hydraulic relief valve for use as a pressure limiting device in more demanding hydraulic circuits, requiring low hysteresis and low internal leakage.

OPERATION

The **RV08-22** blocks flow from 2 to 1 until sufficient pressure is present at 2 to force the poppet from its seat.

The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

NOTE: The RV08-22 may be used in cross-over relief applications (back pressure on 1) with the use of the "C" double back-up ring seal option. See Ordering Table.

FEATURES

- Adjustments cannot be backed out of the valve.
- Variety of pressure adjustment options including non-adjustable factory pre-set.
- Adjustment options A, B, and C: positive stops prevent springs from going solid.
- Optional bi-directional pressure (requires bi-directional pressure seal option).
- Hardened poppet and cage for long life.
- Optional spring ranges to 248 bar (3600 psi).
- Smooth response to pressure surges.
- Industry common cavity.
- Compact size.

RATINGS

Pressure Rating: 248 bar (3600 psi)

Proof Pressure: 496 bar (7200 psi)

Burst Pressure: 1038 bar (16168 psi)

Flow Rating: 30.3 lpm (8 gpm) at maximum pressure.

Internal Leakage: 0.25 ml/minute (5 drops/minute) max. to 85% of nominal setting

Relief Pressure Setting Defined: bar (psi) evident at 0.95 lpm (0.25 gpm)

Reseat Pressure: Nominal 90% of crack pressure

Standard Spring Ranges: 3.4 to 248.2 bar (50 to 3600 psi)

Shown in To Order section. Due to manufacturing tolerances, it may be possible to adjust the valve either lower or higher than the nominal ratings shown. If the valve is adjusted beyond the recommended maximum pressure range for F and H style adjuster options, the valve may not open to relieve pressure.

Temperature: -40 to 100°C (-40 to 212°F) with Buna N seals;

-26 to 204°C (-15 to 400°F) with fluorocarbon seals;

-54 to 107°C (-65 to 225°F) with polyurethane seals.

Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

Cavity: VC08-2; See page 9.108.1

Cavity Tool: CT08-2XX; See page 8.600.1

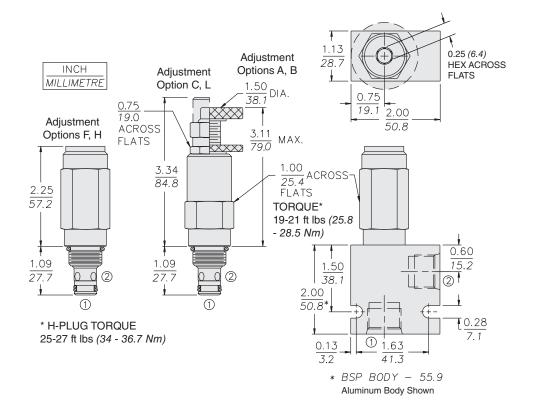
Seal Kit: SK08-2X-T; or SK08-2X-M (for cross-over relief application); See page 8.650.1

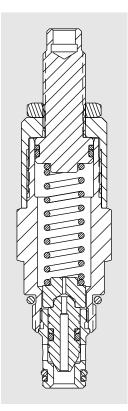
Poppet

RV08-22

HYDRAFORCE

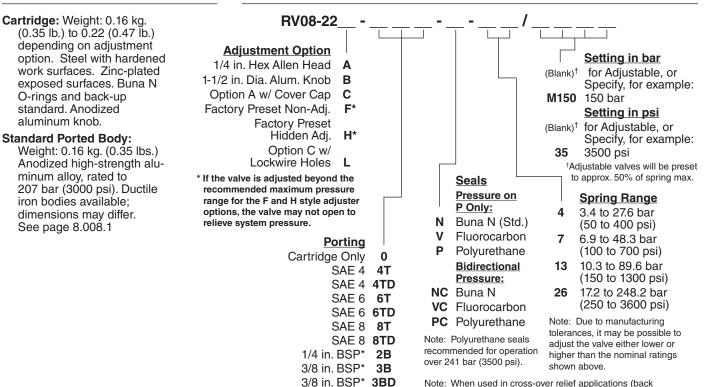
DIMENSIONS





MATERIALS

TO ORDER



*BSP Body; U.K. Mfr. Only

Note: When used in cross-over relief applications (back pressure on 1) be sure to specify the Bidirectional Pressure Seal Option and SK-08-2X-M Double-Back-Up Ring Seal Kit.