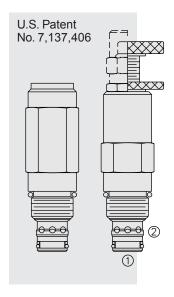
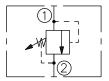
RV50-26 Relief, Pilot-Operated Spool

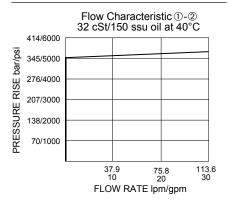


SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A screw-in, cartridge-style, pilot-operated (two-stage), spool-type hydraulic relief valve, intended for use as a pressure limiting device in demanding hydraulic circuits which require fast response and low hysteresis.

OPERATION

The RV50-26 blocks flow from 1 to 2 until sufficient pressure is present at 1 to force the piloting relief off its seat, allowing the main (second stage) spool to shift, opening 1 to 2.

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

NOTE: The RV50-26 may not be used in cross-over relief applications (back pressure on ②).

FEATURES

- · Adjustments cannot be backed out of the valve.
- · Adjustments prohibit springs from going solid.
- · Hardened spool and cage for long life.
- · Fast, smooth response to pressure surges.
- · Industry common cavity.

RATINGS

Operating Pressure: 345 bar (5000 psi)

Flow: The Performance Chart illustrates flow handling capacity at maximum setting. Pressure rise will vary with setting due to flow forces. Consult factory for specific flow characteristic values.

Internal Leakage: 115 cc/minute (7 cu. in./minute) max. to 85% of nominal setting

Crack Pressure Defined: bar (psi) evident at 7.6 lpm (2.0 gpm) attained

Reseat Pressure: Nominal 90% of crack pressure

Standard Spring Ranges: 27.6 to 345 bar (400 to 5000 psi)

Temperature: -40 to 120°C **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

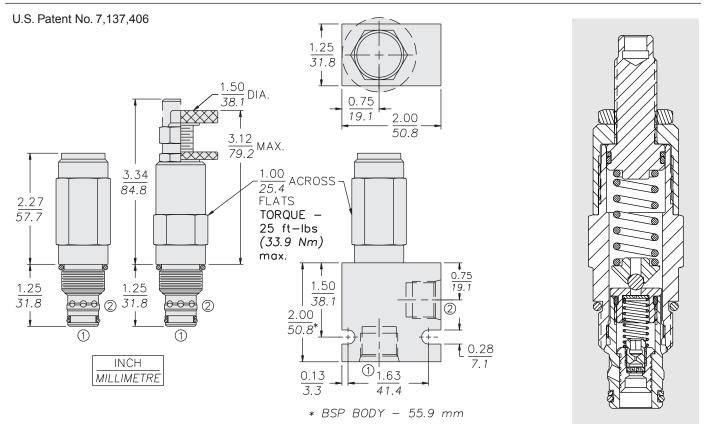
Installation: No restrictions; See page 9.020.1

Cavity: VC10-2; See page 9.110.1 Cavity Tool: CT10-2XX; See page 8.600.1 Seal Kit: SK50-2X-B; See page 8.650.1



RV50-26

DIMENSIONS

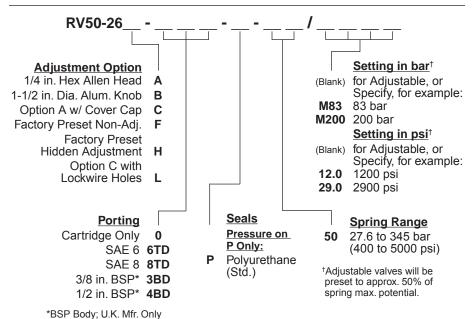


MATERIALS

Cartridge: Weight: 0.25 kg. (0.55 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Poly-urethane seals with
Fluorocarbon back-ups for
pressures over 240 bar (3500 psi).
Anodized aluminum knobs.

Ported Body: Weight: 0.54 kg. (1.2 lbs.) Ductile Iron (code "D") standard, consult factory for weight, dimensions may differ. Rated to 345 bar (5000 psi). See page 8.010.1

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