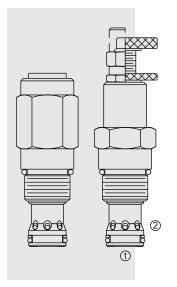
## **RV12-26** Relief, Pilot-Operated Spool

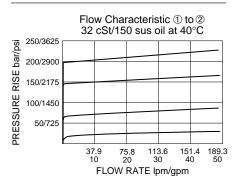


## SYMBOLS

#### **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 **RV12-26** 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 RV12-26 cannot be used in crossover relief applications.

### FEATURES

- Adjustments cannot be backed out of the valve.
- Adjustments prohibit springs from going solid.
- Hardened spool and cage for long life.
- Optional spring ranges to 241 bar (3500 psi).
- Fast, smooth response to pressure surges.
- Cost effective cavity.

### RATINGS

Operating Pressure: 241 bar (3500 psi)

Proof Pressure: 420 bar (6090 psi)

Flow: See Performance Chart

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:**

6.9 to 27.6 bar (100 to 400 psi); 13.8 to 110.3 bar (200 to 1600 psi);

31.0 to 206.9 bar (450 to 3000 psi); 34.5 to 241.4 bar (500 to 3500 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: VC12-2; See page 9.112.1

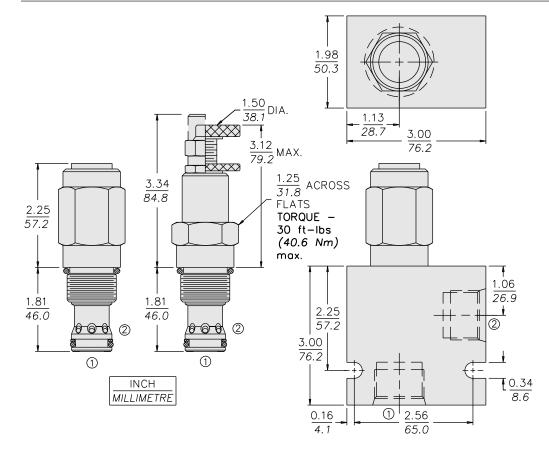
Cavity Tool: CT12-2XX; See page 8.600.1

Seal Kit: SK12-2X-B; See page 8.650.1

## 

# RV12-26

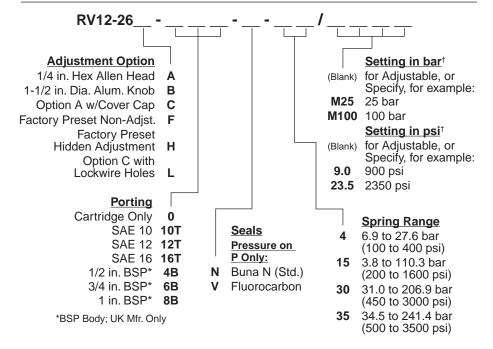
#### DIMENSIONS



### MATERIALS

- **Cartridge:** Weight: 0.34 kg. (0.75 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard. Anodized aluminum knobs.
- Standard Ported Body: Weight: 0.57 kg. (1.25 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

### TO ORDER



<sup>†</sup>Adjustable valves will be preset to approx. 50% of spring max. potential.