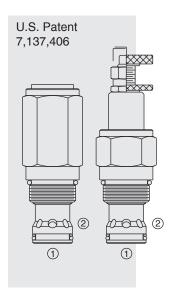
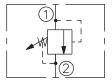
RV16-26 Relief, Pilot-Operated Spool

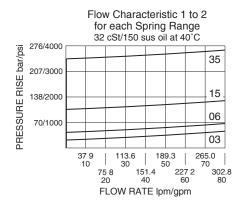


SYMBOLS

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 **RV16-26** 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 RV16-26 cannot be used in cross-over 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 275.8 bar (4000 psi).
- Fast, smooth response to pressure surges.

RATINGS

Operating Pressure: 275.8 bar (4000 psi)

Flow: See Performance Chart

Internal Leakage: 115 cc/minute (7 cu. in./minute) max. for pressure settings below 138 bar (2000 psi); 197 cc/minute (30 cu. in./minute) for pressure settings of 138 bar (2000 psi) or higher. Leakage measured at 85% of nominal setting.

Crack Pressure Defined: bar (psi) evident at 7.61 lpm (2 gpm) attained

Reseat Pressure: Nominal 90% of crack pressure

Standard Spring Ranges:

03: 9.66–20.70 bar (140–300 psi); **06**: 15.87–41.41 bar (230–600 psi);

15: 36.63–103.52 bar (530–1500 psi);

35: 82.82–241.55 bar (1200– 3500 psi)

Temperature: -40 to 70°C (-40 to 160°F)

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

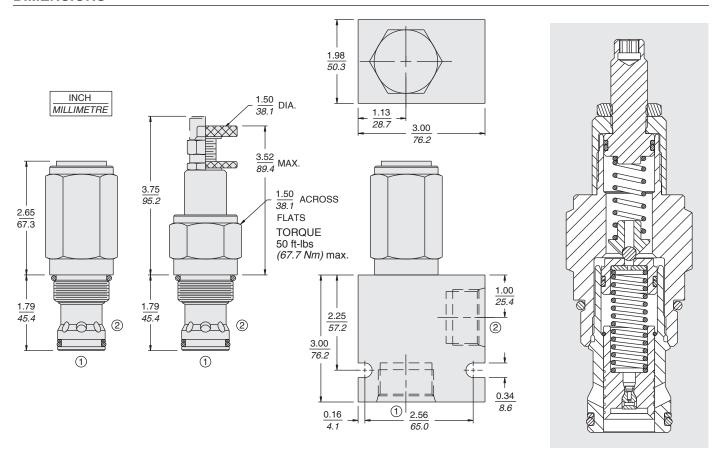
Cavity: VC16-2; See page 9.116.1

Cavity Tool: CT16-2XX; See page 8.600.1 Seal Kit: SK16-2X-B; See page 8.650.1



RV16-26

DIMENSIONS

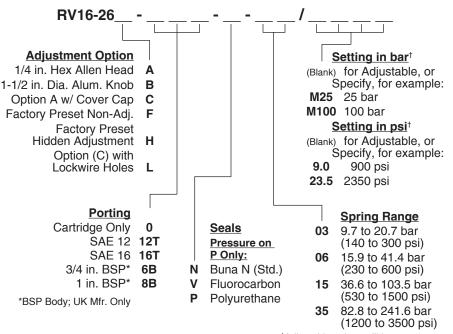


MATERIALS

Cartridge: Weight: 0.73 kg. (1.60 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 8.016.1

TO ORDER



[†]Adjustable valves will be preset to approx. 50% of spring max. potential.