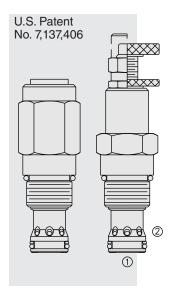
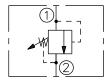
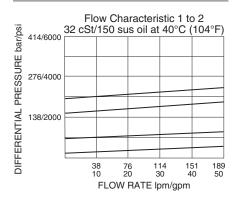
RV12-26 Relief, Pilot-Operated Spool



ISO SYMBOL



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 207 bar (3000 psi).
- Fast, smooth response to pressure surges.
- · Cost effective cavity.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Flow: See Performance Chart

Crack Pressure: Relief pressure attained at 7.6 lpm (2.0 gpm) attained

Internal Leakage: 197 ml/minute (12 cu. in/minute) max. to 85% of nominal setting

Reseat Pressure: Nominal 90% of crack pressure

Standard Spring Range: 6.9 to 206.9 bar (100 to 3000 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 rating shown. If the valve is adjusted beyond the recommended maximum pressure range for the F and H style adjuster options, the valve may not open to relieve system 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

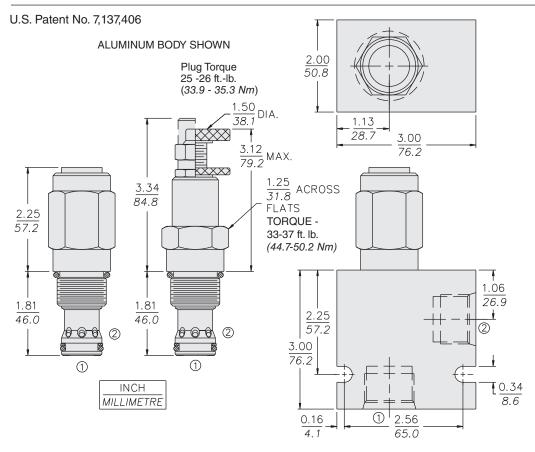
Cavity: VC12-2; See page 9.112.1

Cavity Tool: CT12-2XX; See page 8.600.1 **Seal Kit:** SK12-2X-B; See page 8.650.1



RV12-26

DIMENSIONS

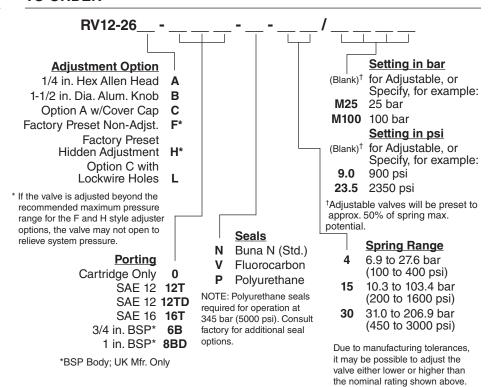


MATERIALS

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 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

TO ORDER



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