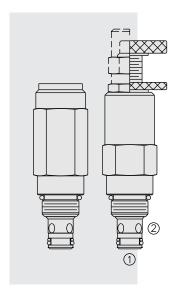
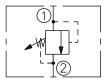
# RV58-20 Relief, Direct-Acting Poppet, High Pressure

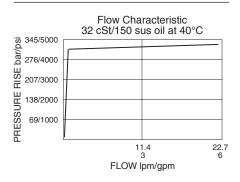


# **SYMBOLS**

#### **USASI/ISO:**



# PERFORMANCE (Cartridge Only)



## **DESCRIPTION**

A screw-in, cartridge-style, direct-acting, poppet-type, hydraulic relief valve intended for lower flow circuits requiring low internal leakage at higher pressures.

#### **OPERATION**

The **RV58-20** blocks flow from 1 to 2 until sufficient pressure is present at 1 to force the spring-opposed poppet from its seat.

Note: The RV58-20 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.
- · Rapid response to pressure changes.
- · Compact size.

#### **RATINGS**

Operating Pressure: 345 bar (5000 psi)

Flow: See Performance Chart

Internal Leakage: 0.25 cc/minute (5 drops/minute) max. to 75% of nominal setting Crack Pressure Defined: bar (psi) evident at 0.95 lpm (0.25 gpm) attained

Reseat Pressure: Nominal 80% of crack pressure

Standard Spring Range: 55.2 to 317.2 bar (800 to 4600 psi)

Operating Temperature: -54 to 107°C with standard 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

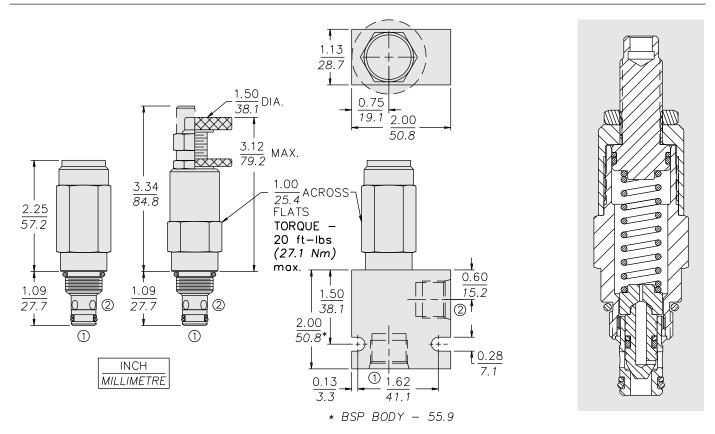
Cavity: VC08-2; See page 9.108.1

Cavity Tool: CT08-2XX; See page 8.600.1 Seal Kit: SK58-2X-B; See page 8.650.1



# RV58-20

#### **DIMENSIONS**



## **MATERIALS**

Cartridge: Weight: 0.23 kg. (0.50 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Polyurethane O-rings and back-up standard. Anodized aluminum knobs and caps.

Ported Body: Weight: 0.54 kg. (1.20 lbs.); Ductile Iron (code "D") standard, consult factory for weight, dimensions may differ. Rated to 345 bar (5000 psi). See page 8.008.1.

#### TO ORDER

