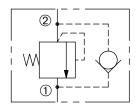
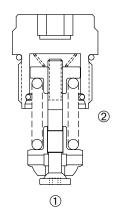
# **RV-080**

Relief Valve, Anti-Cavitation Check



#### **SERIES 080**





## **DESCRIPTION**

A cartridge valve designed to combine a shock relief valve, (direct acting) and anti-cavitation function through the check valve.

#### **OPERATION**

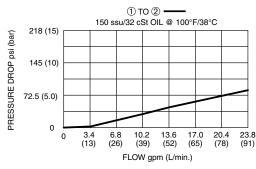
The RV-080 prevents flow from ② to ① until the set crack pressure at ② is achieved. The poppet then unseats allowing flow from ② to ①, protecting the circuit from over pressurization.

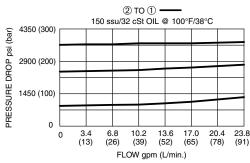
The RV-080 allows free flow from 1 to 2. As pressure at 1 exceeds pressure at 2, the valve unseats from the cavity allowing flow from 1 to 2. This provides anti-cavitation function through the check valve.

#### FEATURES and BENEFITS

- Rapid response to pressure surges.
- Anticavitation function through the check valve.
- Hardened precision poppet and seat for long life.
- Fast opening and closing.
- · Low hysteresis.
- Compact size.

#### PRESSURE DROP VS. FLOW





#### **SPECIFICATIONS**

**Operating Pressure:** 5000 PSI (345 Bar)

Max. Flow: 24 gpm (91 l/min)

Internal Leakage: 2.0 cc/min at 80% set

**Crack Pressure Defined:** Determined at .25 gpm (0.9 L/min)

**Reseat Pressure:** Nominal 80% of crack pressure **Temperature:** -30°F to +220°F (-35°C to +104°C)

Recommended Filtration: ISO 20/18/14

Fluids: Mineral-based fluids.

Cavity/Cavity Tool: R08-2, see page 11.28.2

In-Line Body Material: Anodized 6061T6 aluminum alloy rated at

3000 PSI (207 Bar).

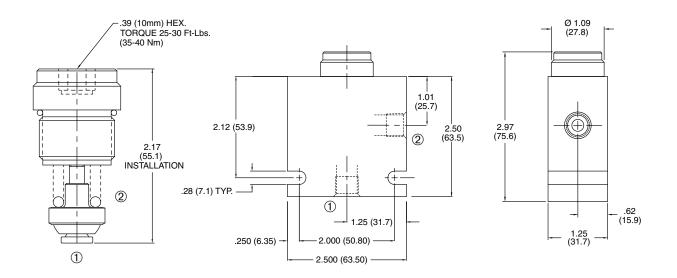


Relief Valve, Anti-Cavitation Check

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# **INSTALLATION DIMENSIONS**



( ) Parentheses = Millimeters

### **HOW TO ORDER**

