

# **RV SERIES**

High Pressure Anti-Cavitation Relief Valves

#### **DESCRIPTION**

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

#### **OPERATION**

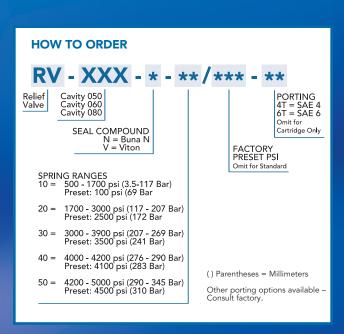
The RV Series prevents flow from 2 to 1 until the set crack pressure at 2 is achieved.

The valve unseats from the cavity allowing flow from 2 to 1, protecting the circuit from over pressurization.

The RV Series 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.

#### **FEATURES AND BENEFITS**

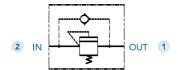
- · Rapid response to pressure surges.
- Anti-cavitation function through the check valve.
- Hardened precision poppet and seat for long life.
- Fast opening and closing.
- Low hysteresis.
- Compact size.

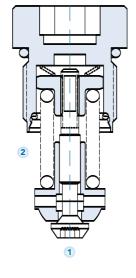


# **RV-050**Relief Valve Cartridge

# **RV SERIES**

#### **USASI/ISO**





#### **SPECIFICATIONS**

Operating Pressure: 5500 psi (380 Bar)

Max. Flow: 16 gpm (60 L/min)

Internal Leakage: 1.0 cc/min at 80% set

Crack Pressure

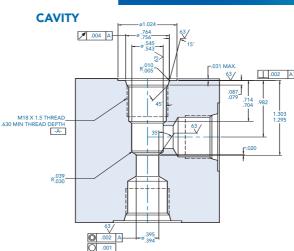
Defined: Determined at .25 gpm (0.9 L/min)
Reseat Pressure: Nominal 80% of crack pressure
Temperature: -30°F to +220°F (-35°C to +104°C)

Recommended

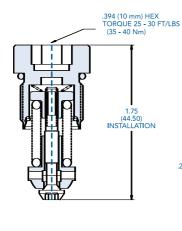
Filtration: ISO 20/18/14

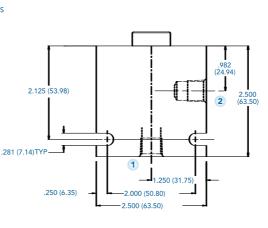
Fluids: Mineral-based fluids

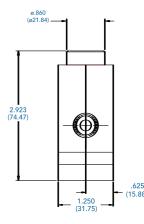
Cavity/Cavity Tool: R05-2



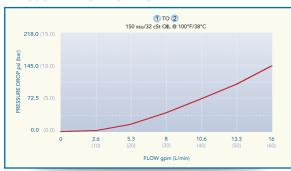
#### **INSTALLATION DIMENSIONS**







#### PRESSURE DROP VS. FLOW

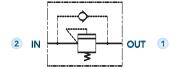


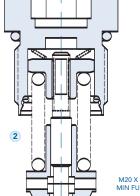
#### PRESSURE RISE VS. FLOW



# **RV-060** Relief Valve Cartridge

#### **USASI/ISO**





**SPECIFICATIONS** 

Operating Pressure: 5500 psi (380 Bar) Max. Flow: 20 gpm (77 L/min) Internal Leakage: 1.0 cc/min at 80% set

Crack Pressure

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

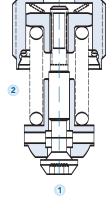
Reseat Pressure: Nominal 80% of crack pressure Temperature: -30°F to +220°F (-35°C to +104°C)

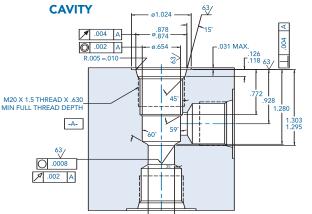
Recommended

Filtration: ISO 20/18/14

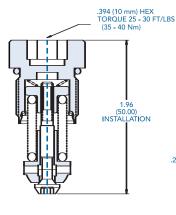
Fluids: Mineral-based fluids

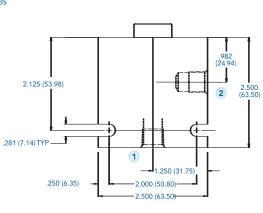
Cavity/Cavity Tool: R06-2



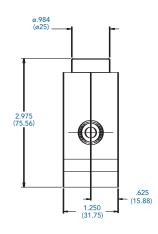


### INSTALLATION DIMENSIONS





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#### PRESSURE DROP VS. FLOW



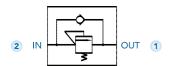
#### PRESSURE RISE VS. FLOW

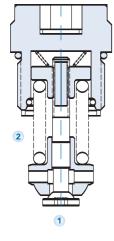


# **RV-080**

## Relief Valve Cartridge

#### **USASI/ISO**





## SPECIFICATIONS

Operating Pressure: 5500 psi (380 Bar)

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

Internal Leakage: 1.0 cc/min at 80% set

Crack Pressure

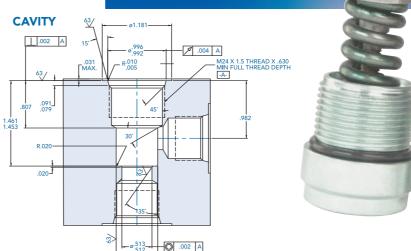
Defined: Determined at .25 gpm (0.9 L/min)
Reseat Pressure: Nominal 80% of crack pressure
Temperature: -30°F to +220°F (-35°C to +104°C)

Recommended

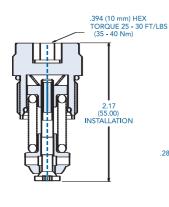
Filtration: ISO 20/18/14

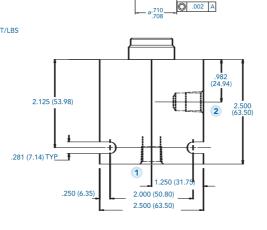
Fluids: Mineral-based fluids

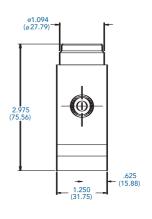
Cavity/Cavity Tool: R08-2



#### **INSTALLATION DIMENSIONS**







### PRESSURE DROP VS. FLOW



#### PRESSURE RISE VS. FLOW



