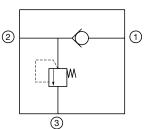
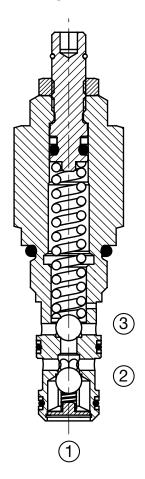
# **RV06B-01**

# Check Valve, Integral Relief, Ball Type

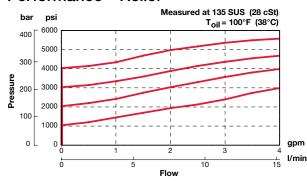
Up to 4 gpm (15 l/min) • 5000 psi (350 bar)

# **Hydraulic Symbol**





#### Performance - Relief



### Description

A screw-in cartridge, ball type check valve and direct acting, ball type relief valve combined in a single cartridge intended for use as load holding and pressure limiting device in hydraulic circuits to reduce manifold size.

### Operation

The RV06B allows flow from port 2 to port 1 once the sufficient pressure is applied at port 2 to overcome the bias spring pressure of 5 psi (0.34 bar). It normally blocks flow in the opposite direction.

The relief portion of the valve would remain closed until the predetermined pressure setting is reached at port 2 to lift the spring opposed ball from its seat, allowing flow from port 2 to port 3. Pressure at port 3 is directly additive to relief pressure setting.

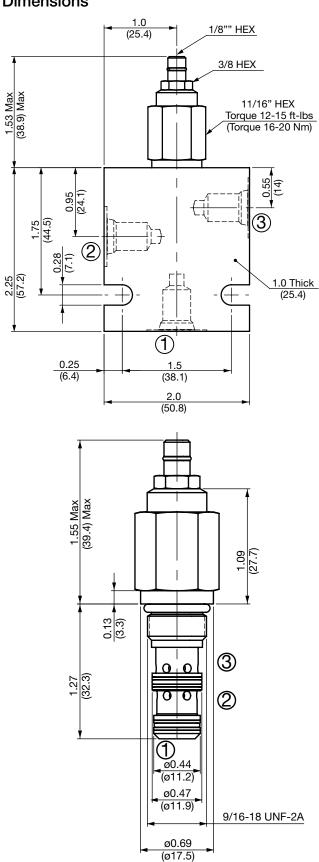
#### **Features**

- Combination of two functions n one cartridge
- Relief setting up to 5000 psi (350 bar)
- Relief setting adjustment screw cannot be backed out of the valve
- · Adjustable under full pressure
- Fast closing and seating
- Hardened closing elements to ensure minimal wear and extend service life
- All external surfaces zinc-plated

# **Specifications**

Operating Pressure	5000 psi (350 bar)		
Maximum Flow Rate	4 gpm (15 l/min)		
Internal Leakage	5 drops/min maximum to 75% of nominal setting.		
Relief Pressure Ranges	0 to 3000 psi (0 to 207 bar) 0 to 5000 psi (0 to 350 bar)		
Reseat Pressure	80% of crack pressure		
Check Valve Bias Spring Cracking Pressure	5 psi (0.34 bar)		
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C)		
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner per (ISO 4406)		
Installation	No Orientation Restrictions		
Cavity	FC06-3 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02582050 Finisher: 02582051		
Cartridge Weight	0.06 lb (27 g)		
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton® o-rings. Solid Thermoplastic Polyester back-up rings.		
Seal Kits Buna-N Viton®	FS063-N P/N: 02610186 FS063-V P/N: 02610187		

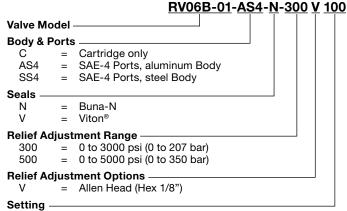
#### **Dimensions**



All measurements in inches (mm). Subject to technical modifications

# CHECK & LOAD CONTROL VALVES

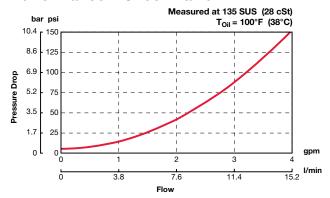
#### **Model Code**



blank = Set at 50% maximum pressure for the range XXX = Desired psi ÷ 10

Example: 100 = 1000 psi

#### Performance - Check Valve



## Standard Line Bodies\*

Code	Part No	Material	Pressure Rating	Weight
FH063-AS4	02600492	Aluminum, anodized	3500 psi (245 bar)	0.36 lbs (0.16 kg)
FH063-SS4	02600493	Steel, Zinc plated	6000 psi (420 bar)	1.1 lbs (0.50 kg)

<sup>\*</sup>Please refer to Line Bodies & Cavities section for details