

# PRESSURE RELIEF, SUSTAINING, BACK PRESSURE CONTROL VALVE

MODEL NO. FH47-03-CV

# ■ DESIGN DESCRIPTION & APPLICATION.....

FH47-03-CV Pressure Relief, Sustaining or Back Pressure Control Valve is designed to allow flow when upstream line pressure is above the adjustable setpoint of the control pilot, and throttle toward closed when upstream line pressure falls below the adjustable setpoint.

During the installation, when the valve is installed "off the main line" on the branch of a tee, it serves as a Pressure Relief Control Valve. It is normally closed, and quickly opens when upstream line pressure exceeds the pilot setting, relieving excess line pressure.

However, when valve installed "in line" connecting with two distribution areas, the valve then acts as a Pressure Sustaining Control Valve. When line pressure in the upstream area falls below the pilot setpoint, the valve modulates toward a closed position, sustaining pressure in the upstream area.

If the valve is installed "in line" on the discharge of a pump system, the valve will act as Back Pressure Control Valve. When pump system discharge pressure falls below the pilot setpoint, the valve modulates toward a closed position, increasing backpressure against the pump system.

# **■ SPECIFICATION**

Size: DN50 ~ DN300 to flange Flange: 10K, 16K, PN16, 150LB

Working Temperature: 0°C ~ 100°C, Water

Any size over DN350 can be made to order.

#### **■ PILOT SPECIFICATION**

Pressure Adjustment Range:  $0.1 \sim 4 \text{ kgf/cm}^2$ ,  $3 \sim 9 \text{ kgf/cm}^2$ ,  $7 \sim 16 \text{ kgf/cm}^2$ 

Working Temperature: 0°C ~ 100°C, Water

Material: Brass / Stainless Steel



- Responsive, accurate pressure control
- Reliable and excellent sealing
- Slow shut off design and surge prevention
- Completely automatic operation

### **■ PARTS & MATERIALS**

No	Parts	Materials	
1	Strainer	Body	
2	Ball Valve	Iron Casting / Stainless Steel	
3	Needle Valve / Ball Valve	Accessory	
4	Ball Valve	Brass / Stainless Steel	
5	Ball Valve	Fastener & Spring	
6	Pilot of Pressure Relief, Sustaining, Back	Carbon Steel / Stainless Steel	
7	Ball Valve	Diaphragm	
8	Basic Valve Body	NBR / EPDM	

# ■ DIMENSION

Valve Size	L (mm)	H (mm)	Weight (kg)
50	200	87	7
65	220	109	9
80	285	115	16
100	307	137	18
125	370	142	37
150	390	164	48
200	500	183	83
250	605	244	120
300	650	258	140



