

# 24" (600 mm) - 700 Series Hydraulic Control Valve



Based on BERMAD's worldwide and long-term experience with the latest mechanical and hydraulic design technology.

### Description

BERMAD's 24", 700 Series Control Valve is a hydraulically operated, diaphragm actuated globe pattern valve. The valve is comprised of two major components: The body/seal assembly and the actuator assembly.

The actuator assembly is unitized and removable from the body as a single unit. It contains both a lower and upper control-chamber and can be converted to either a single chamber or double-chambered actuator to optimized the required control function.

The diaphragm sub-assembly in both single and double chamber versions is top and center guided providing a seat area with no obstructions.

### Features and Benefits

- Globe pattern wide body with semi-straight flow
  - Higher flow (Kv; Cv) than standard globe pattern
  - Higher resistance to cavitation damage
- Double-chambered actuator as standard
  - Fast opening and non-slam closing characteristic
  - Reliable drip-tight seal
  - Wide range of control function
  - Accurate control
  - Application flexibility even after installation
  - Independent cushioned action check-valve
- Easy access design
  - In-line serviceable
  - Quick-remove actuator (minimal down-time)
  - On-site & in-line replaceable seat
- Wide range of options and accessories
  - One-way or two-way flow configuration
  - Wide variety of control accessories easily added on-site



## 24" Control Valve

By combining the basic valve, as a platform, with appropriate self-contained control loops added, a wide range of valve categories can be obtained:

- Electric and hydraulic remote-control valve
- Pressure-reducing valve
- Pressure-sustaining relief valve
- Pump control valve
- Tank level control valve
- Check valve
- Flow-rate valve
- Combination models

### Technical Data:

#### Pressure Rating and Flanges:

ISO PN 16, PN 25  
ANSI #150, #300

#### Materials:

Valve Body and Actuator: Ductile iron  
Inner Trim: Stainless Steel  
Diaphragm: Buna N, Nylon fabric reinforced  
Seals: Buna N

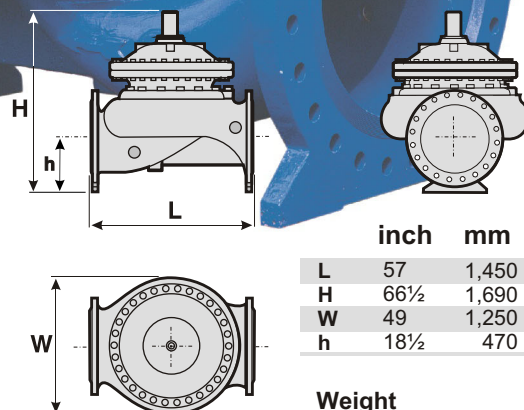
#### Temperature Rating:

Water, up to 180°F (80°C)

#### Control Chamber Displacement:

26 Gallons (98 Liters)

### Dimensions:



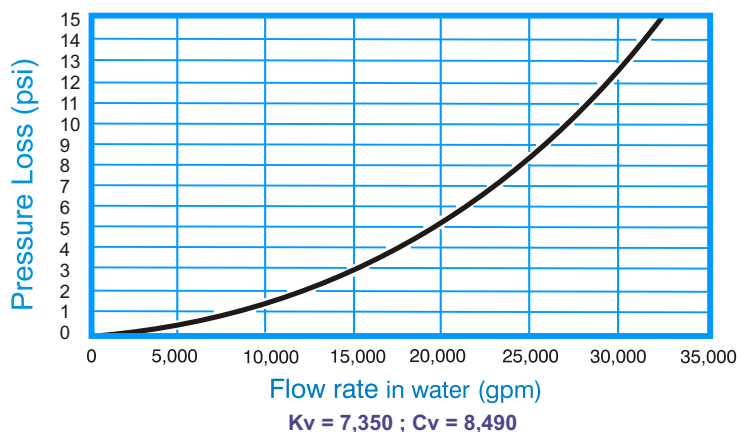
inch mm

L	57	1,450
H	66½	1,690
W	49	1,250
h	18½	470

#### Weight

7,150 lb  
3,250 kg

### Flow Chart



### Kv ; Cv to Valve Opening Chart

