



# Purchase Specification

**Model No. 750-01**

## **Pressure Relief, Sustaining & Back Pressure Valve**

Sizes: 2, 3, and 4 inch wafer style  
6, 8, 10, and 12 inch flanged  
6, 8, 10, 12 inch Victaulic® Ends

### **Installation**

The Cla-Val Model 750-01 is a hydraulically operated pilot actuated automatic control valve for pressure sustaining, relief and/or back pressure service. The main valve consists of only two parts, a stainless steel body and an elastomeric liner or control element.

The Cla-Val Model 750-01 will open when inlet pressure begins to exceed a preset pressure and will allow enough flow to maintain that inlet pressure. In pressure sustaining service, Cla-Val Model 750-01 will conserve pressure in an upper system during periods of high demand in a system below. In pressure relief service, the Cla-Val Model 750-01 will modulate to exhaust line pressure to keep it below a set point maximum. On a pump bypass system, the valve will allow flow back to the pump suction when pump discharge pressure exceeds the set point.

Cla-Val Model 750-01 will control from no flow to full open flow without any chattering or slamming under low flow conditions. For this reason, on by-pass, relief, and pressure sustaining service, there is never a region of control instability. There is no slip-type friction in Cla-Val Model 750-01 because the valve has no bearings. Cla-Val Model 750-01 valves have excellent resistance to cavitation with a  $C_f$  factor of 0.9.

Cla-Val Model 750-01 valves can be supplied as combination control valve with check. Pilot controls, options, and accessories are fully piped at the factory and the Cla-Val Model 750-01 is shipped ready for installation.

### **Description**

Valve and control system shall maintain inlet pressure at a predetermined set point; shall open as pressure starts to increase above the set point, and close as pressure falls below the set point. Control valve shall be constructed of two parts: an 18-8 (304) stainless steel body and an elastomeric liner or control element. Minimum rangeability shall be 500:1 based on capacity at flowing pressure conditions.  $C_f$  shall be greater than or equal to 0.9. Valve and control system shall be similar in all respects to Cla-Val Model 750-01 as manufactured by Cla-Val Co., Newport Beach, California or approved equal.

### **Material Specification**

Body: 18-8 (304L) stainless steel\*  
Liner: Natural Rubber, 65 durometer (std) Viton, EPDM, Nitrile, Silicone (available)

Liner Retainer 18-8 (304) stainless steel\*

### **Pilot**

Body: ASTM B62 Bronze\*  
Spring Cover: ASTM B62 Bronze\*  
Wetted Parts: Bronze/Stainless steel  
Buna® N\*

### **Accessories**

Shut-off Cock: Brass\*  
Speed Controls: Brass\*  
Check Controls: Brass\*  
Control Piping: Copper\*  
Control Fittings: Brass\*

\*316 stainless steel available

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