



Purchase Specification

Model No. 100-42

700 SERIES ROLL SEAL VALVE

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

Description

The Cla-Val Model 100-42 Roll Seal valve is a hydraulically operated valve used to control liquid flow by means of a flexible control element: the liner.

The basic valve consists of only two parts: a one piece, investment cast body and an elastomeric liner. The valve body is constructed with internal ribs and slots forming a grillwork which surrounds the liner to provide support. A normally closed type valve is formed by the installed liner which covers the grillwork and seats against the raised seating surface in the valve body. Upstream pressure actuates the valve to produce valve opening by rolling the liner off the seating surface and the slotted grillwork.

The valve is actuated by upstream pressure as the loading pressure (pressure supplied to the control chamber) is varied by an external pilot control system.

A typical pilot control system used to operate the Model 100-42 valve consists of a restriction and a suitable pilot connected to the valve.

Description

Control valve shall be constructed of two parts: a body and an elastomeric liner or control element. Minimum rangeability shall be 500:1 based on capacity at flowing pressure conditions. Cf shall be greater than or equal to 0.9. There shall no bearings in the valve. Valve & control system shall be similar in all respects to the Cla-Val Co. 100-42 as manufactured by Cla-Val Co., Newport Beach, California or approved equal.

Material Specification

Body: 18-8 (304L) stainless steel*
Liner: Natural Rubber, 65 duromel (standard)
Viton, EPDM, Nitrile, Silicon (available)
Liner Retainer 18-8 (304) stainless steel*

* 316 stainless steel available

Valve and control system shall be similar in all respects to Cla-Val Model 100-42 as manufactured by Cla-Val Co., Newport Beach, California or approved equal.