

Fire Hydrant Pressure Reducing Valve



Performance Specification

Capacity: C _f Factor:	See Technical Data Sheet 0.9
Cavitation: Rangeability: Bearing Friction:	See Technical Data Sheet 500:1 No friction from slip-type bearings
Design Specification Sizes:	2 1/2" and 4"
End Detail Inlet:	Female American National Fire

Hose Connection (Section Thread NFPA -194-1974) End Detail Outlet: Male American National Fire Hose Connection (Section Thread NFPA -194-1974) Determined by components as **Operating Pressure:** high as 720 psi maximum

Maximum Differential: 225 psid For higher differential consult factory Reverse Pressure: 125 psid maximum Temperature Range: 32 to 160 degrees F*

Description

The Cla-Val Model 790-63/790-67 Fire Hydrant Pressure Reducing Valve is a hydraulically operated, pilot actuated automatic control valve for pressure reducing service. The main valve is made of 316L stainless steel with only one moving part, an elastomeric liner. The valve has a female fire hose connection on the inlet side of the valve and male hose on the outlet side. The valve is available for 2 1/2" or 4" threaded end connections. In either size, the Cla-Val Fire Hydrant Pressure Reducing Valve will control pressure right down to shutoff.

790-63

790-67

High Pressure

MODEL

Pressure reducing valves are used to lower pipeline pressure to a predetermined set point. The Cla-Val Fire Hydrant Pressure Reducing Valve automatically controls downstream pressure, from no flow to full open flow, without regard to changes in inlet pressure. Outlet pressure control is smooth and precise since the friction and hysteresis of the valve and pilot is negligible.

Control systems are fully piped at the factory and the Cla-Val Fire Hydrant Pressure Reducing Valve is shipped complete, ready for installation.

Material Specification

Body: Liner:	316L Stainless Steel Natural Rubber, 65 durometer (standard)
Liner Retainer:	Viton, EPDM, Nitrile, Silicone (available) 316 Stainless Steel
Pilot	
Body:	ASTM B62 Bronze*

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Body:	ASTM B62 Bronze*
Spring Cover:	ASTM B62 Bronze*
Wetted Parts:	Bronze/Stainless Steel*, Buna-N®

Accessories

Shut-off Isolation Valve: Brass* "Y" Strainer: Bronze* Control Fittings: Brass*

* 316 Stainless Steel

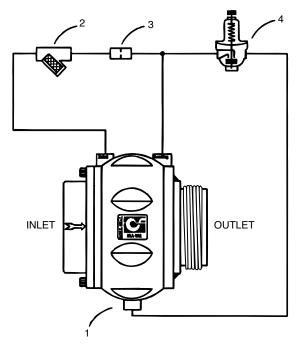


*Standard natural rubber 65 durometer in water service.

Temperature range depends on liner material. Higher differential pressure ratings available.

790-63 Pressure Reducing Valve for Fire Hydrant Service

Maximum inlet pressure 400 psi



Basic Components

- 1 100-42FH Roll Seal (Main Valve)
- 2 X43 "Y" Strainer
- 3 X58C Restriction Fitting
- 4 CRD Pressure Reducing Control

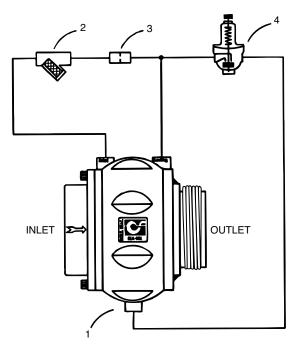
Adjustment Spring Range:

2-30, 15-75, 30-300 (30-300 standard)

Purchase Specification

Valve and control system shall lower line pressure to a predetermined set point and shall maintain that set point regardless of variations in flow or inlet pressure. Control valve shall be constructed of a stainless steel body and only one moving part, 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 the Cla-Val 790-63/790-67 Fire Hydrant Pressure Reducing Valve as manufactured by Cla-Val, Newport Beach, California. 790-67 Pressure Reducing Valve for High Pressure Fire Hydrant Service

Maximum inlet pressure 720 psi



Basic Components

- 1 100-42FH Roll Seal (Main Valve)
- 2 RX43HP "Y" Strainer
- 3 X58C Restriction Fitting
- 4 RCRDHP Pressure Reducing Control

Adjustment Spring Range:

0-50, 25-150, 100-250, 200-400 (for higher pressure ranges, please consult factory) (25-150 standard)

When Ordering, Please Specify

- 1. Catalog No. 790-63 or 790-67
- 2. Valve Size, 2 1/2" or 4"
- 3. Inlet Pressure Range
- 4. Outlet Pressure Range
- 5. Maximum Differential Pressure
- 6. Minimum Differential Pressure
- 7. Maximum Flow Rate
- 8. Pilot Set Point

Represented By:



CLA-VAL

CLA-VAL CANADA

Phone: 905-563-4963

905-563-4040

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4687 Christie Drive

Beamsville, Ontario

Canada L0R 1B4

Fax:

PO Box 1325 Newport Beach CA 92659-0325 Phone: 949-722-4800 • Fax: 949-548-5441

CLA-VAL EUROPE

Chemin dés Mesanges 1 CH-1032 Romanel/ Lausanne, Switzerland Phone: 41-21-643-15-55 Fax: 41-21-643-15-50

www.cla-val.com