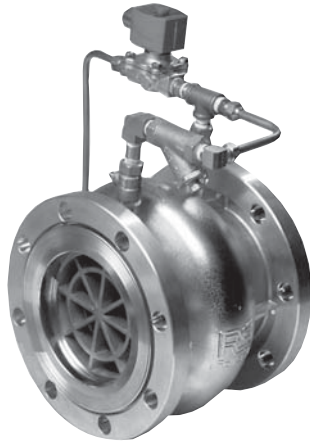




— MODEL — **736-09**

Solenoid Control Valve Equipped with 2-Way Solenoid Control



- **Fast Acting Solenoid Control**
- **Reliable Drip Tight Shut-off**
- **Simple Design, Proven Reliable**
- **Easy Installation & Maintenance**

Description

The Cla-Val Model 736-09 Solenoid Control Valve is an on-off control valve which either opens or closes upon receiving an electrical signal to the solenoid pilot control. This valve consists of a Cla-Val Model 100-42 main valve and a two-way solenoid valve which alternately applies pressure to or relieves pressure from the loading chamber of the main valve. It is furnished either normally open (de-energize solenoid to open) or normally closed (energize solenoid to open).

If the check feature option is added and a pressure reversal occurs, the downstream pressure is admitted into the main valve loading chamber and the valve closes to prevent return flow.

Performance Specification

Capacity:	See Technical Data Sheet
C _f Factor:	0.9
Cavitation:	See Technical Data Sheet
Rangeability:	500:1
Bearing Friction:	No friction from slip-type bearings

Design Specification

Sizes:	2, 3, and 6 inch wafer style 6, 8, 10, and 12 inch flanged
End Detail Wafer:	Fits ANSI B16.5 class 125, 150, 250, and 300 flanges
End Detail Flanged:	ANSI B16.5 class 150 (fits class 125) or ANSI B16.5 class 300 (fits class 250)
Operating Pressure:	720 psi maximum
Maximum Differential:	150 psid continuous, 225 psid intermittent*
Reverse Pressure:	125 psid maximum
Temperature Range:	32 to 160 degrees F*
Flange Operating Pressure:	Class 125-175 psi maximum Class 150-275 psi maximum Class 250-300 psi maximum Class 300-720 psi maximum
Solenoid Enclosure:	NEMA IV Watertight (std.) NEMA VII Explosion Proof (available)
Solenoid Voltages:	115, 230, 460 for 50, 60 HZ 6, 12, 24, 120, 240 VDC

*Standard natural rubber 65 durometer in water service. Temperature range depends on liner material. Higher differential pressure ratings available.

For other than standard ANSI flanges consult factory

Din drilling available on all sizes

Purchase Specification

The two-way solenoid pilot alternately applies pressure to or exhausts pressure from the loading chamber of the main valve which in turn causes the main valve to open or close.

The control valve shall be constructed of two parts: a 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 736-09 as manufactured by Cla-Val, Newport Beach, California.

Material Specification

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

Solenoid Pilot

Body:	Brass*
Wetted Parts:	Brass/ Stainless Steel*, Buna-N®

Accessories

Shut-off Isolation Valve:	Brass*
Speed Controls:	Brass*
"Y" Strainer:	Bronze*
Control Piping:	Copper*
Control Fittings:	Brass*

*316 stainless steel available



736-09 Basic Components

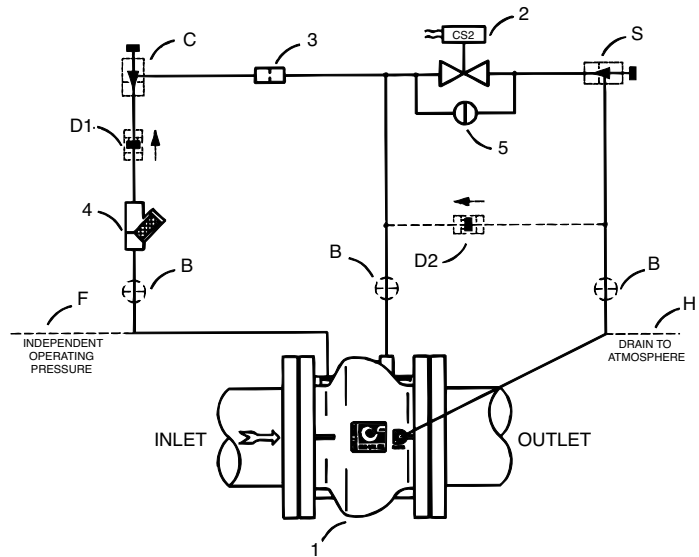
Item	Description
1	100-42 Roll Seal Main Valve
2	CS2 Solenoid Control**
3	X58C Restriction Assembly
4	X43 "Y" Strainer

Optional Features

Item	Description
B	CK2 (Isolation Valve)
C	CNA Needle Valve (Closing)*
D	Check Valves (125 psid max. reverse pressure)
F	Independent Operating Pressure
H	Atmospheric Drain
S	CNA Needle Valve (Opening)*

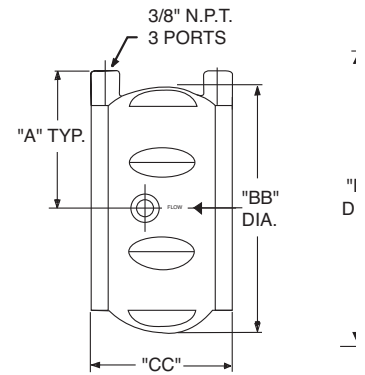
* The opening & closing speed controls (optional) on this valve should always be open at least 1/4 turn off their seats.

** Solenoid operating voltage, enclosure type, and normally open or normally closed main valve.



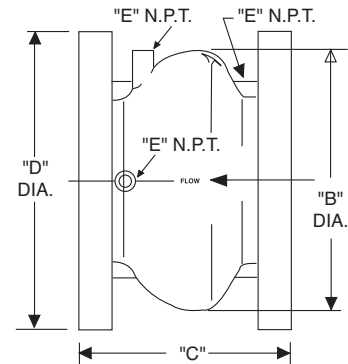
Dimensions (100-42 Main Valve)

Valve Size (Inches)	2	3	4	6	8	10	12
A	2 7/8	3 9/16	4 1/8	5 1/4	—	—	—
B	—	—	—	10 7/8	14 3/8	18	21 5/8
BB	4 3/8	5 7/8	7 3/8	9 13/16	—	—	—
C	—	—	—	9	11	13	15 1/4
CC	2 1/2	3 1/4	4	5 1/2	—	—	—
D (ANSI 150)	—	—	—	11	13 1/2	16	19
D (ANSI 300)	—	—	—	12 1/2	15	17 1/2	20 1/2
E (Ports)	—	—	—	3/8	3/8	1/2	1/2
Approx. Wt. (150 lbs.)	4	7 1/2	14	58	115	190	290
Approx. Wt. (300 lbs.)	4	7 1/2	14	87	155	250	375



2", 3", 4" and 6" Wafer Style

VALVE SIZE (mm)	50	80	100	150	200	250	300
A	73	90	105	133	-	-	-
B	-	-	-	276	365	457	549
BB	111	149	187	249	-	-	-
C	-	-	-	229	279	330	387
CC	64	83	102	140	-	-	-
D (ANSI 150)	-	-	-	279	343	406	483
D (ANSI 300)	-	-	-	318	381	445	521
E (Ports) -	-	-	10	10	13	13	-
Approx. kg. (150lbs.)	1.81	3.63	6.35	30	54.43	89	151.50
Approx. kg. (150lbs.)with Studs & Nuts	2.72	4.54	10	-	-	-	-
Approx. kg. (300lbs.)	1.81	3.63	6.35	41.73	72.57	116.57	191
Approx. kg. (300lbs.)with Studs & Nuts	5	6.35	11.80	-	-	-	-



6", 8", 10" and 12" Flanged Style

When Ordering Please Specify:

- Catalog No. 736-09
- Valve Size
- Fluid Being Handled
- Fluid Temperature Range
- Inlet Pressure Range
- Outlet Pressure Range
- Maximum Differential Pressure
- Minimum Differential Pressure
- Maximum Flow Rate
- Voltage & NO, NC (Main Valve)



E-736-09 (R-07/2014)

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