



Model CDB-7

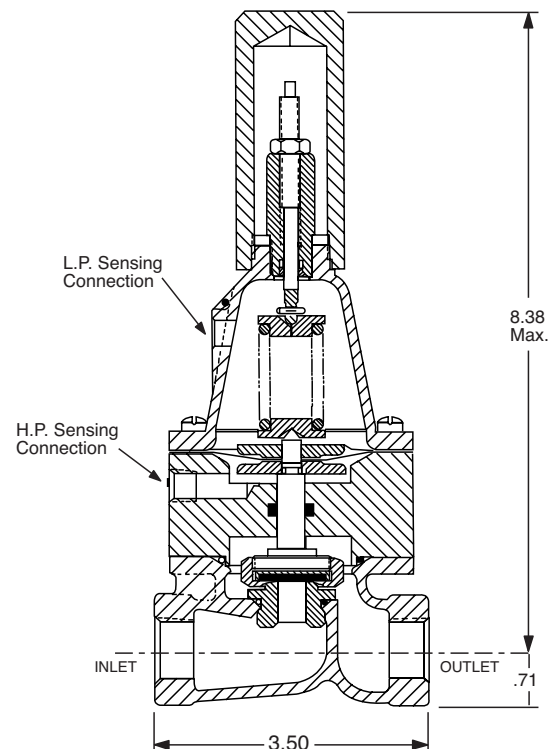
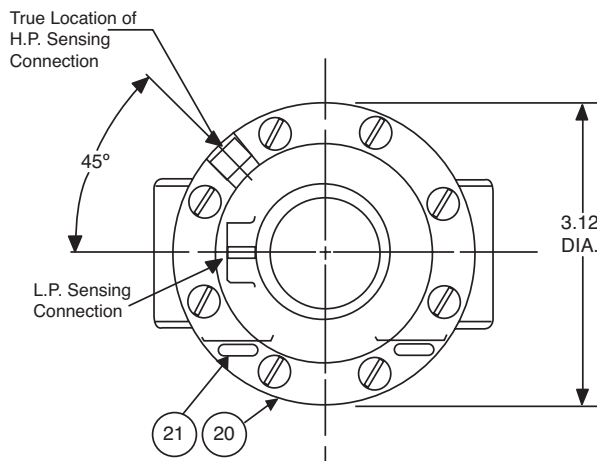
DIFFERENTIAL CONTROL



- Direct Acting
- Hydraulic or Pneumatic Operation
- Simplified Design, Easy Adjustments
- Operates in Any Position
- Gauge Connection Port

The Cla-Val Model CDB-7 Differential Relief Control is normally closed and responds to the differential pressure changes across the diaphragm of the control. An increase in the differential pressure tends to open the control and a decrease in the differential pressure tends to close the control. This causes the main valve cover pressure to vary and the main valve modulates (open and closes) maintaining a relatively constant differential pressure between the main valve inlet and outlet. When differential pressure is lower than the set point of control, the control closes. This pressurizes the cover of the main valve and the main valve closes. The CDB-7 Differential Control is adjusted by turning the adjusting screw clockwise to increase the setting.

Dimensions (In Inches)



Specifications

Size

1/2" & 3/4" NPT Threaded

Temperature Range

Water: to 180 ° F Max

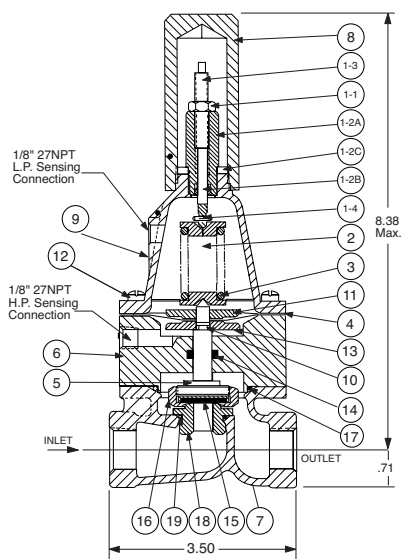
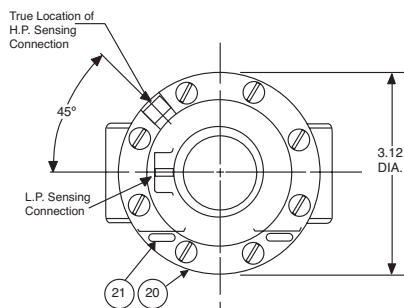
Materials

Body & Cover: Stainless Steel

Trim: Stainless Steel 303

Rubber: Buna-N® Rubber

Note: Other material available, consult factory



Item No.	Description	QTY
1*	X102A Adjusting Assembly	1
1-1*	Nut, Hex	1
1-2*	Box Assembly, Stuffing	1
1-2A*	Housing, Stuffing Box	1
1-2B*	Insert, Stuffing Box	1
1-2C*	O-Ring	1
1-3*	Stem, Adjusting	1
1-4*	Pin, Groove	1
2	Guide, Spring	2
3	Spring	1
4	Diaphragm	1
5	Stem	1
6	Body, Power Unit	1
7	Body	1
8	Cap	1
9	Cover	1
10	O-Ring	1
11	Washer, Diaphragm (Upper)	1
12	Screw, Fil HD	8
13	Washer, Diaphragm (Lower)	1
14	O-Ring	1
15	Disc Assembly	1
16	Retainer, Disc	1
17	O-Ring	1
18	Seat	1
19	O-Ring	1
20	Nameplate	1
21	Plug, Pipe Sq. HD	2

* X102A Available only as assembly

CDB-7 Range PSI	Approximate increase for each clockwise turn of adjusting screw, Item No. 1
0-7	0.75 PSI
5-25	4.0 PSI
10-60	12.0 PSI
20-80	14.5 PSI
50-150	29.5 PSI
65-180	44.0 PSI

Optional X140 Security Cap



- Controlled Security for Pilot Control Adjustment
- Long Life Stainless Steel Construction
- Tamper-Resistant Design
- Model X140-1 Key and Six Pin Cylinder Lock Supplied

When Ordering, Please Specify

1. Catalog No. CDB-7

2. Adjustment Range Desired

3. Materials Desired