CLA-VAL™

— MODELS — **CDB-7**

# Differential Control

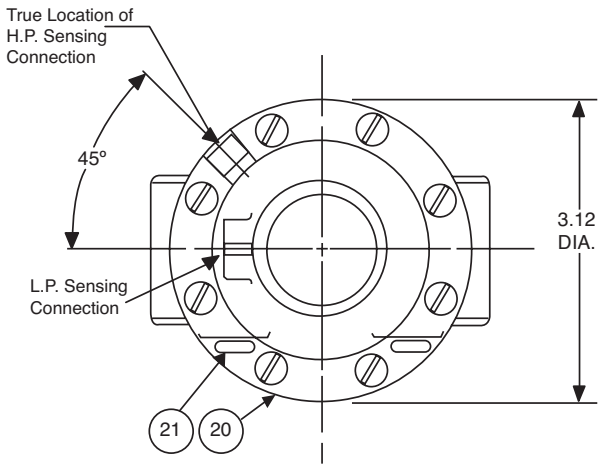


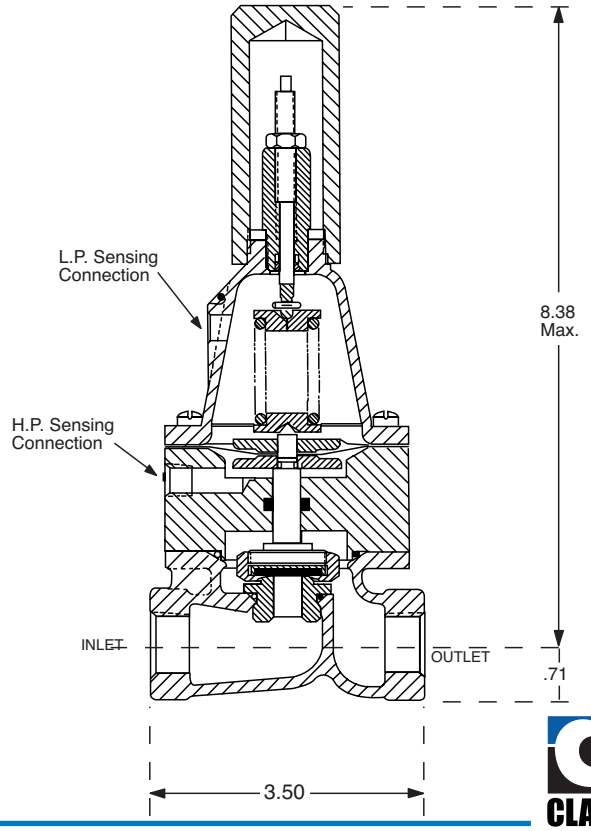
**CDB-7**

- **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 an 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 differental 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)




CLA-VAL™

## Specifications

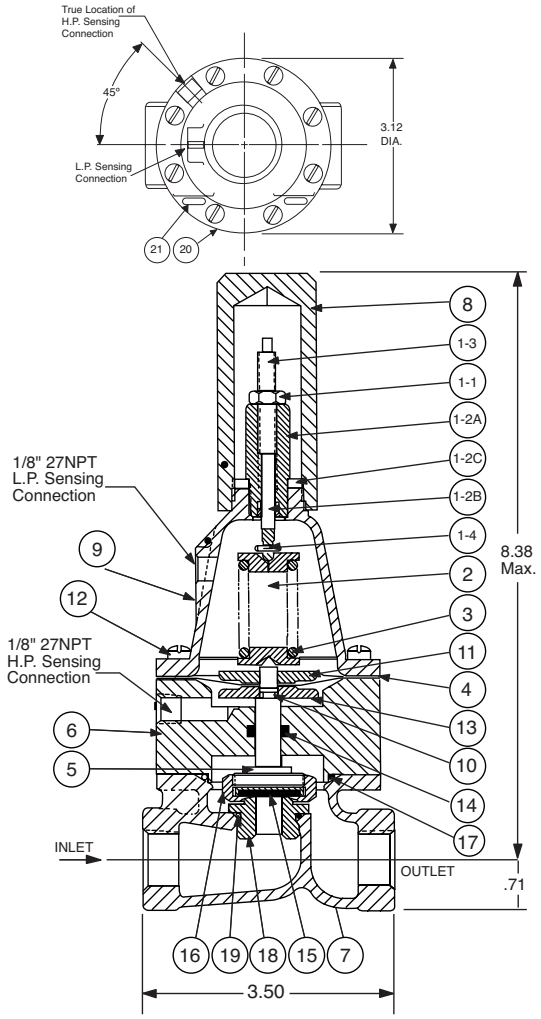
**Sizes** ½" & ¾" NPT Threaded

**Temperature Range** Water: to 180°F Max.

**Materials**

Body & Cover: Cast Bronze ASTM B-62
Trim: Brass & Stainless Steel 303
Rubber: Buna-N® Rubber

**Note**: Other material available, consult factory




| ITEM NO. | PARTS LIST 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 | Namplate | 1 |
| 21 | Plug, Pipe | 2 |

## OPTIONAL X140 SECURITY CAP



X140-1 Locking Security Cap

- **Controlled Security for Pilot Control Adjustment**
- **Long Life Stainless Steel Construction**
- **Tamper-Resistant Design**
- **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


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