



## Pressure Reducing Control Valves



**CRA**

**CRD**  
with X140-1  
Security Cap Option

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

The Cla-Val Models CRA and CRD Pressure Reducing Control automatically reduce a higher inlet pressure to a lower outlet pressure. They are direct acting, spring loaded, diaphragm type control regulators that operate hydraulically or pneumatically. These valves are held open by the force of the compression spring above the diaphragm, and close when the downstream pressure acting on the underside of the diaphragm exceeds the spring setting. The CRD senses downstream pressure directly and the CRA senses downstream pressure remotely.

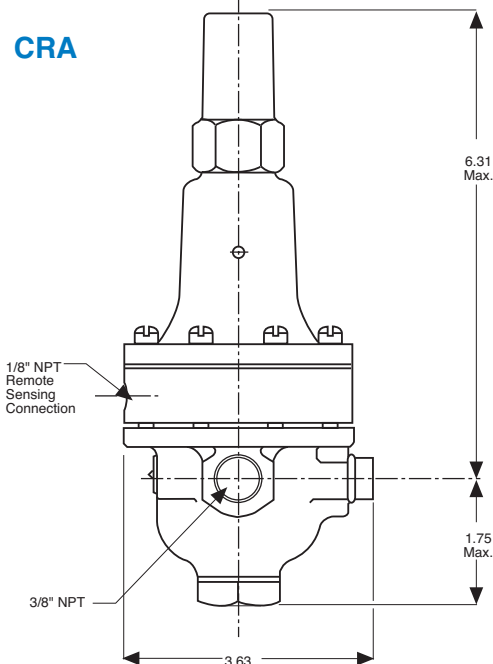
Flow through the control responds to changes in downstream pressure. Turning the adjusting screw clockwise increases the delivery pressure. Turning it counterclockwise decreases the pressure. A resilient disc assures tight shut-off on dead-end service.

Models CRA and CRD may be installed in any position. There is one inlet port and two outlets for either straight or angle installation. The second outlet port can be used for a gauge connection.

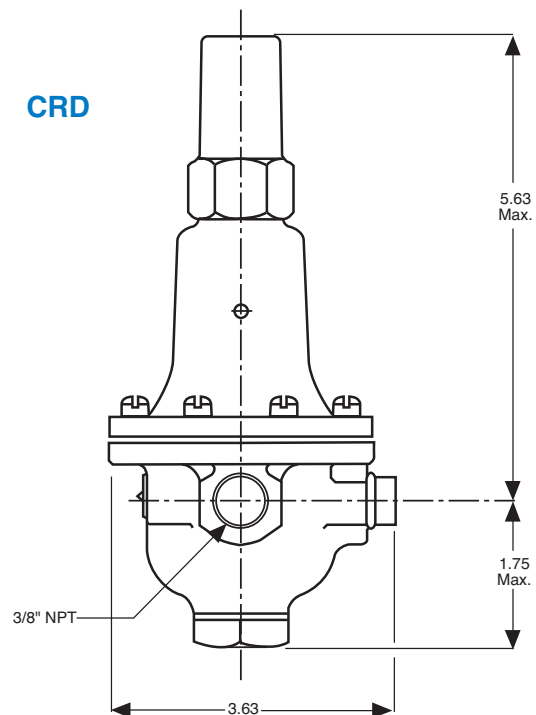
These valves are ideal small capacity regulators for applications such as water coolers, fountains, humidifiers, gas refrigerators, and air supply to tools and instruments. Remote pressure sensing is available with the CRA. They also have numerous applications as pilot controls on many Cla-Val Automatic Control Valves.

### Dimensions (In Inches)

**CRA**



**CRD**



## Specifications

<b>Size</b>	3/8" NPT Threaded
<b>Temperature Range</b>	Water: to 180°F Max.
<b>Materials</b>	
Body & Cover:	Cast Bronze ASTM B-62
Trim:	Brass & Stainless Steel 303
Rubber:	Buna-N® Rubber
<b>Optional Materials</b>	Cast Aluminum 356-T6 Stainless Steel 303
<b>Pressure Ratings</b>	Cast Bronze 400 psi Max. Cast Aluminum 275 psi Max. Stainless Steel 400 psi Max.

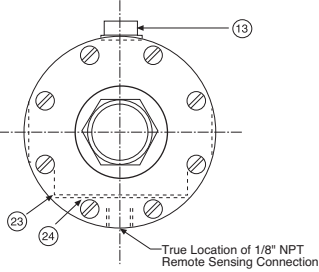
## Adjustment Ranges

psi:	2 - 7	feet of water:	4.5 - 15
	2 - 30		5 - 70
	15 - 75		35 - 170
	20 - 105		46 - 242
	30 - 300		70 - 695

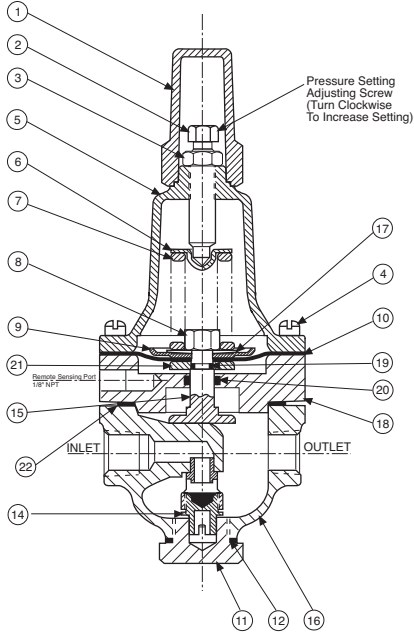
## When Ordering, Please Specify

1. Catalog No. CRA or No. CRD
2. Adjustment Range Desired
3. Materials Desired

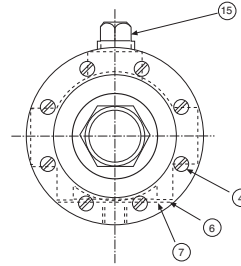
### CRA



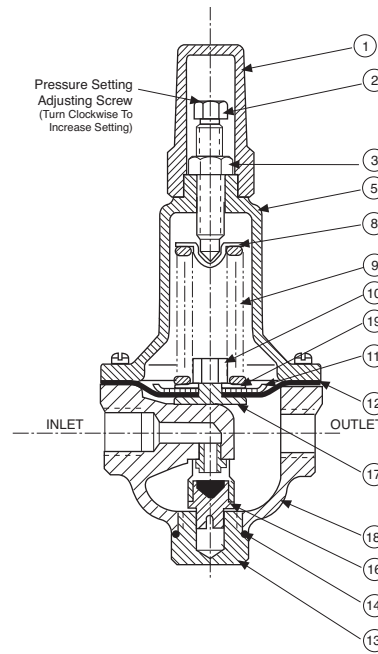
1. Cap
2. Screw, Adjusting
3. Jam Nut
4. Machine Screw-Fil H.D.
5. Cover
6. Spring Guide
7. Spring
8. Hex Nut
9. Diaphragm Washer (Upper)
10. Diaphragm
11. Plug (Body)
12. Gasket
13. Plug, 3/8 NPT
14. Disc Retainer Assembly
15. Yoke
16. Body & Seat Assembly
17. Belleville Washer
18. Powertrol Body
19. O-Ring
20. O-Ring
21. Diaphragm Washer (Lower)
22. Gasket
23. Nameplate Screw
24. Nameplate



### CRD



1. Cap
2. Screw, Adjusting
3. Jam Nut
4. Machine Screw-Fil. HD.
5. Cover
6. Nameplate Screw
7. Nameplate
8. Spring Guide
9. Spring
10. Hex Nut
11. Diaphragm Washer
12. Diaphragm
13. Plug (Body)
14. Gasket
15. Plug 3/8 NPT
16. Disc Retainer Assembly
17. Yoke
18. Body and Seat Assembly
19. Belleville Washer



## OPTIONAL X140 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



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