

# -MODELS- CRA & CRD

# **Pressure Reducing Control Valves**



CRD with X140-1 Security Cap Option

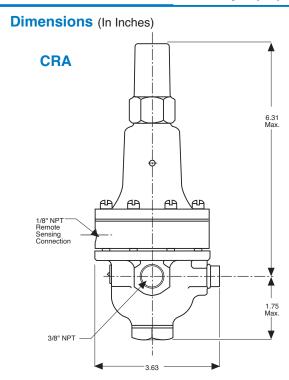
- Direct Acting
- Hydraulic or Pneumatic Operation
- · Simplified Design, Easy Adjustments
- Operates in Any Position
- Gauge Connection Port

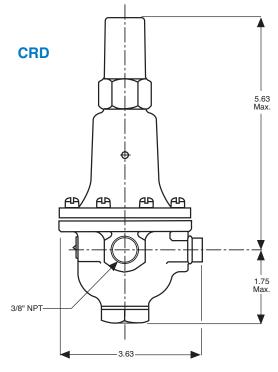
The Cla-Val Models CRA and CRD Pressure Reducing Control automatically reduce a higher inlet pressure to a lower outlet pressure. They are direct acting, spring loaded, diaphragm type control regulators that operate hydraulically or pneumatically. These valves are held open by the force of the compression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







#### **Specifications**

Size 3" NPT Threaded **Temperature Range** Water: to 180°F Max.

**Materials** 

1

2

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(5)

6

7

8

9

(15)

(22)

(14)

Body & Cover: Cast Bronze ASTM B-62

> Brass & Stainless Steel 303 Trim:

Buna-N® Rubber Rubber:

**Optional Materials** Cast Aluminum 356-T6

Stainless Steel 303

**Pressure Ratings** Cast Bronze 400 psi Max.

> Cast Aluminum 275 psi Max. Stainless Steel 400 psi Max.

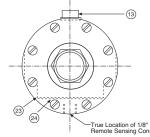
#### **Adjustment Ranges**

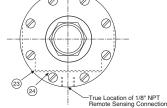
psi:

2 feet of water: 4.5 -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



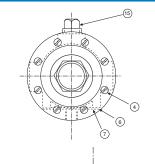


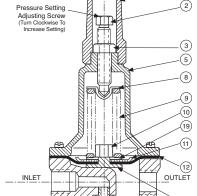
# **CRA**

- 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

**4** 

- 16. Body & Seat Assembly
- 17. Belleville Washer
- 18. Powertrol Body
- 19. O-Ring
- 20. O-Ring
- 21. Diaphragm Washer (Lower)
- Gasket
- 23. Nameplate Screw
- 24. Nameplate





# **CRD**

- 1. Cap
- 2. Screw, Adjusting
- 3. Jam Nut
- 4. Machine Screw-Fil. HD.
- 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**

12 11)



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



### **CLA-VAL**

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#### **CLA-VAL CANADA**

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Represented By:

(16)

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