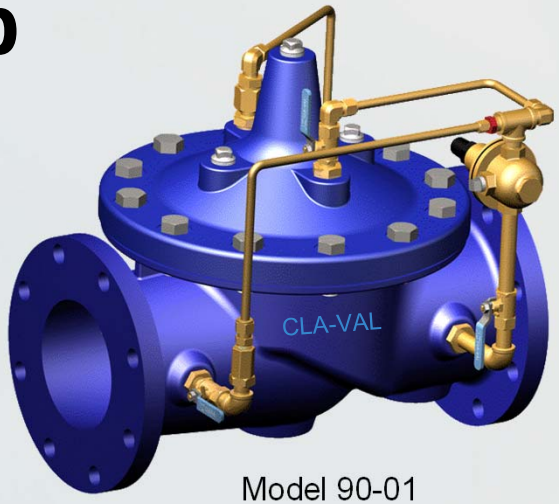
Retrofitting Pressure Reducing Valves

2016 Clean and Safe Drinking Water Workshop



Model 90-01

Automatic Control Valves

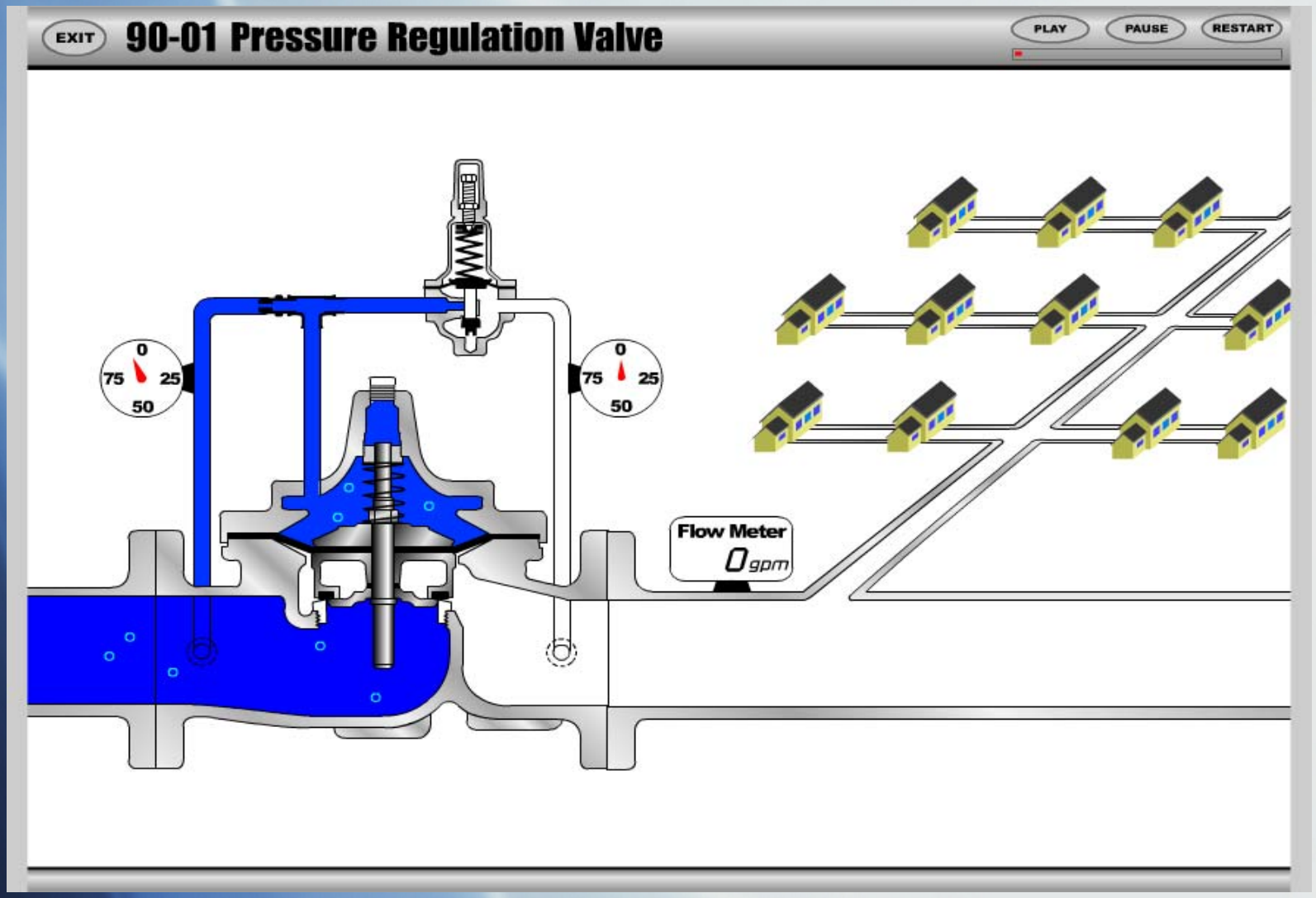
CLA-VAL

K-E Kemtag Enterprises

Retrofitting Pressure Reducing Valves

<u>Goal</u>:

To understand how Pressure Reducing Valves function and to provide valve options to make operating and servicing them easier.



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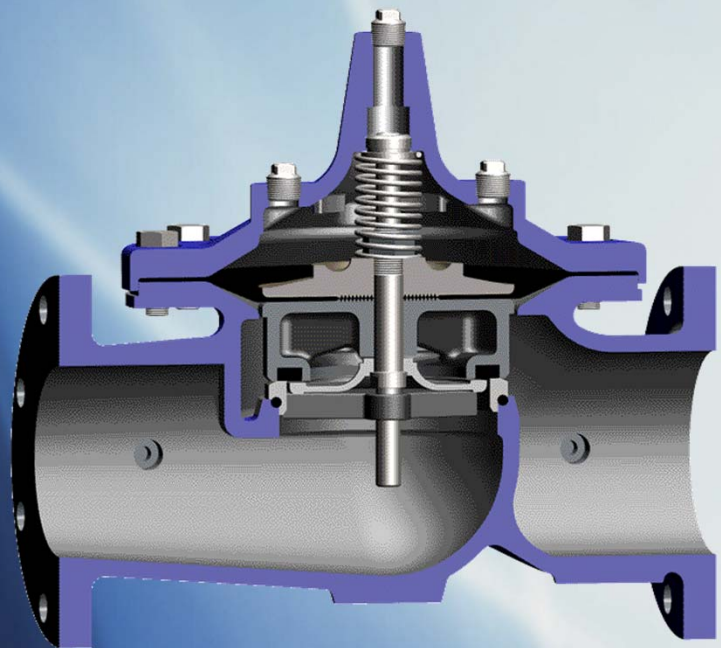
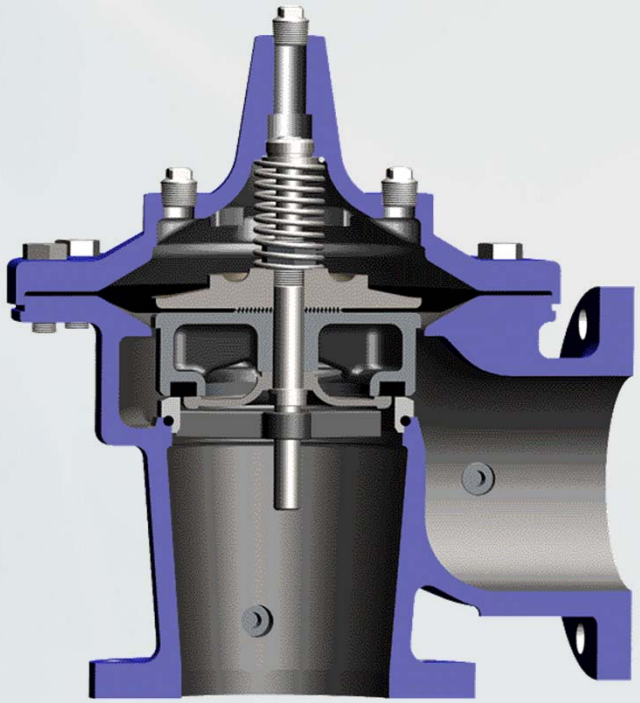
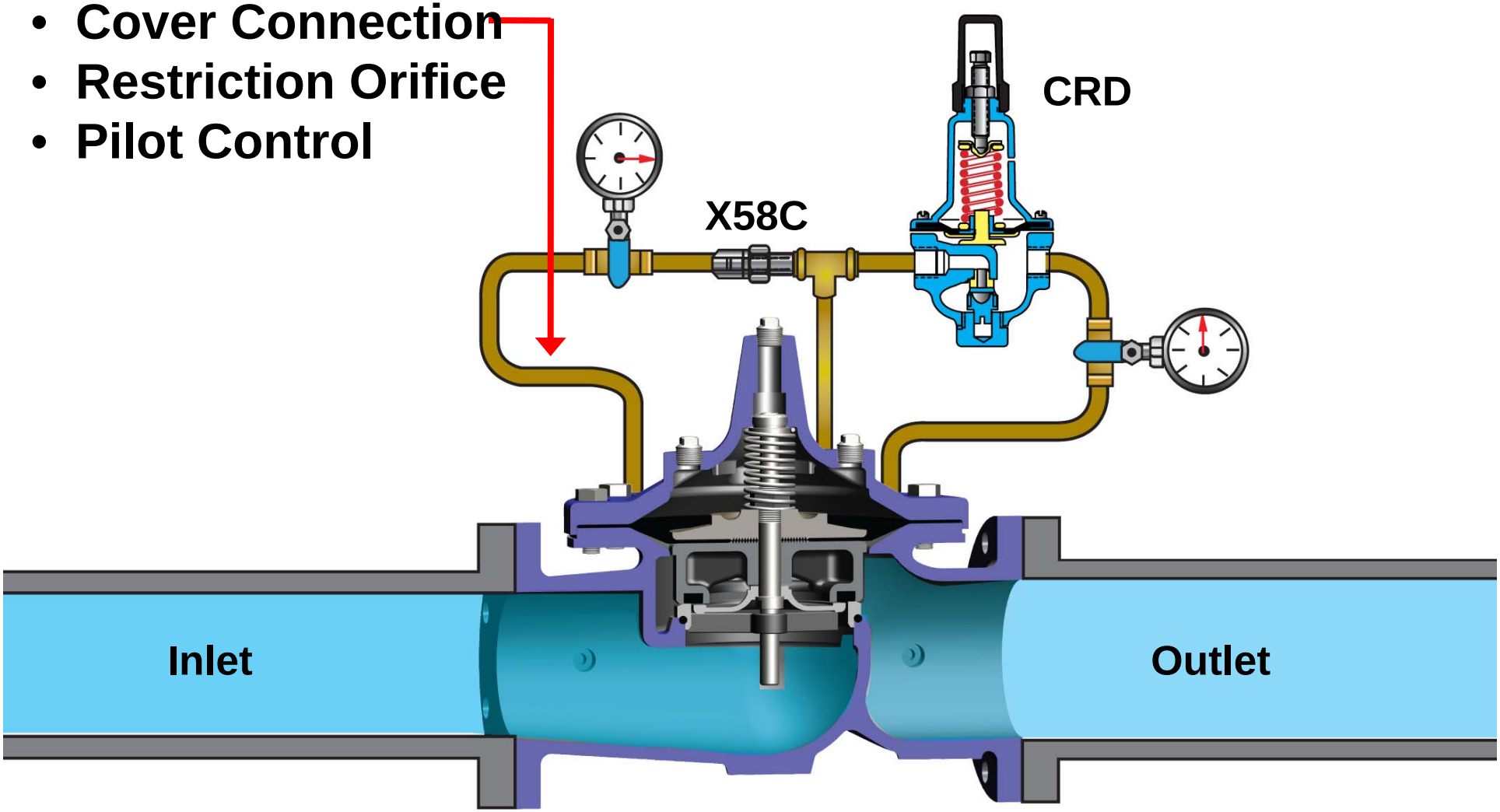
Globe and Angle Pattern



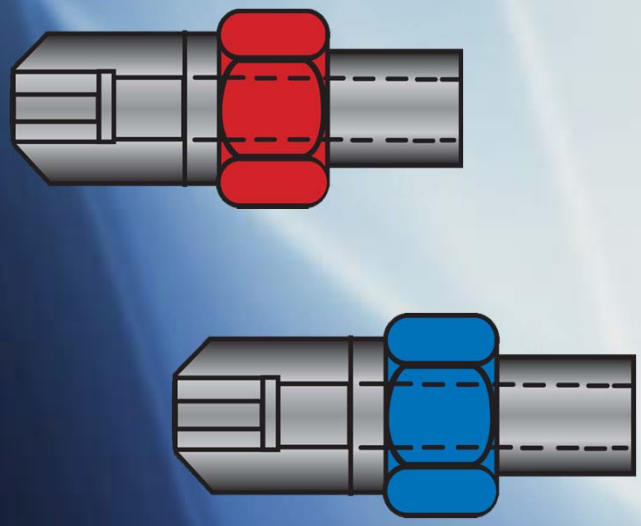


90 Series Pressure Reducing Valve

- **Cover Connection**
- **Restriction Orifice**
- **Pilot Control**



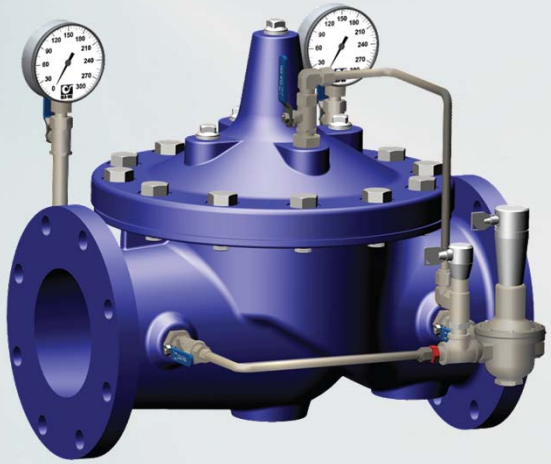
X58C Restrictors

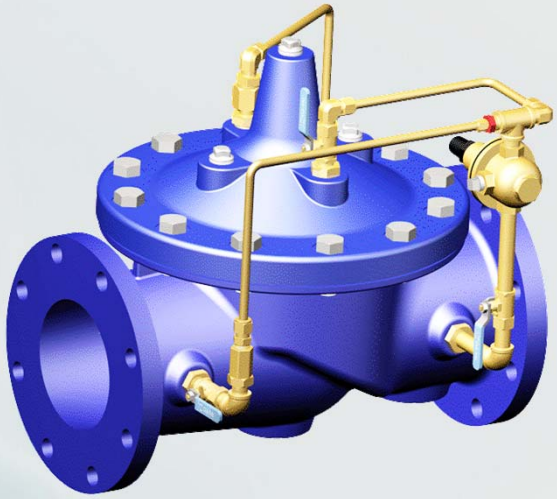


- **Large orifice stained *RED* – 1/8” Valves 4” and larger**
- **Small orifice stained *BLUE* – 3/32” Valves 3” and smaller.**

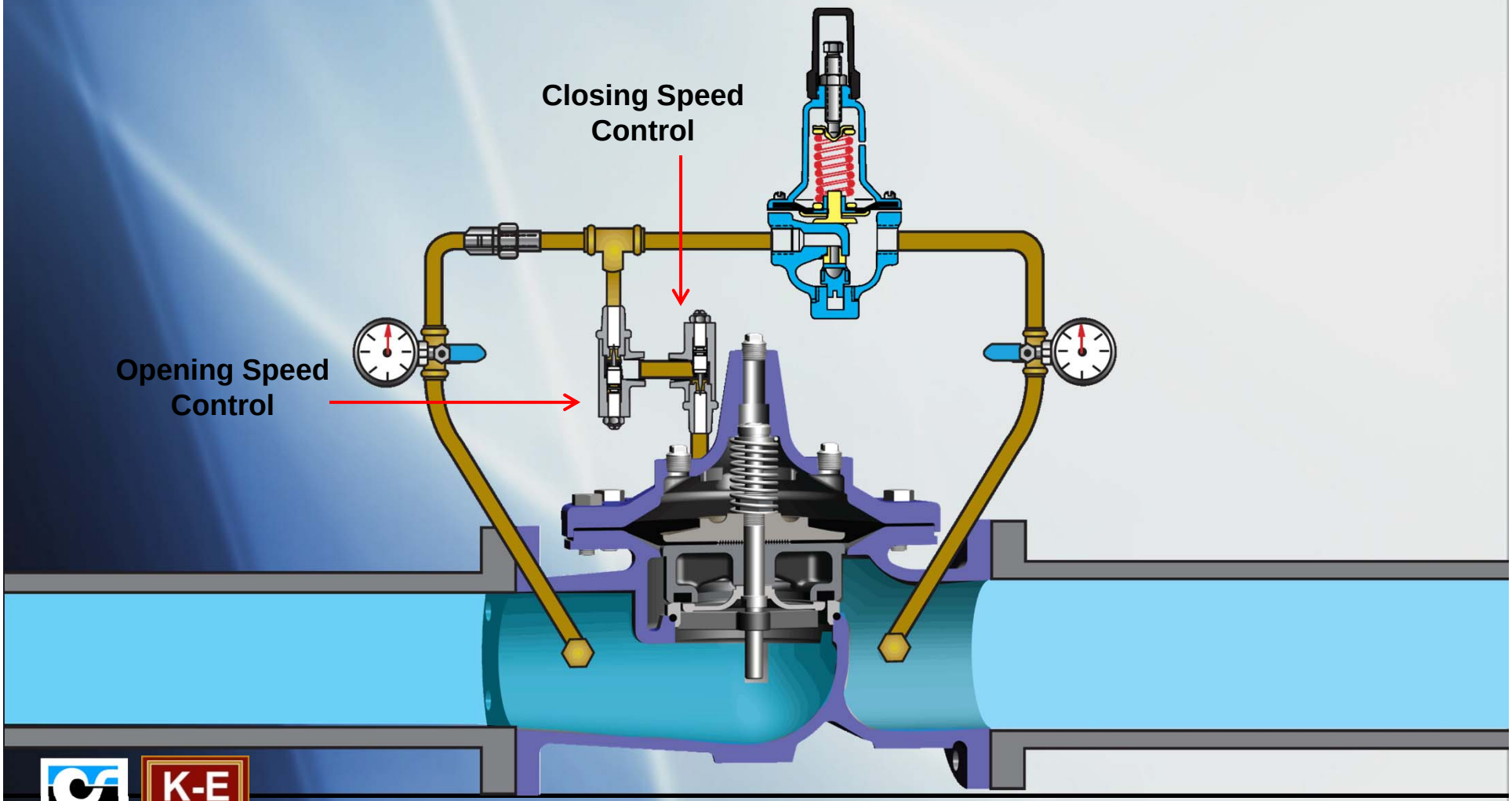
Available Pilot & Tubing Materials

- Low Lead Brass
- 316 Stainless Steel
- Braided Stainless Steel
- Monel





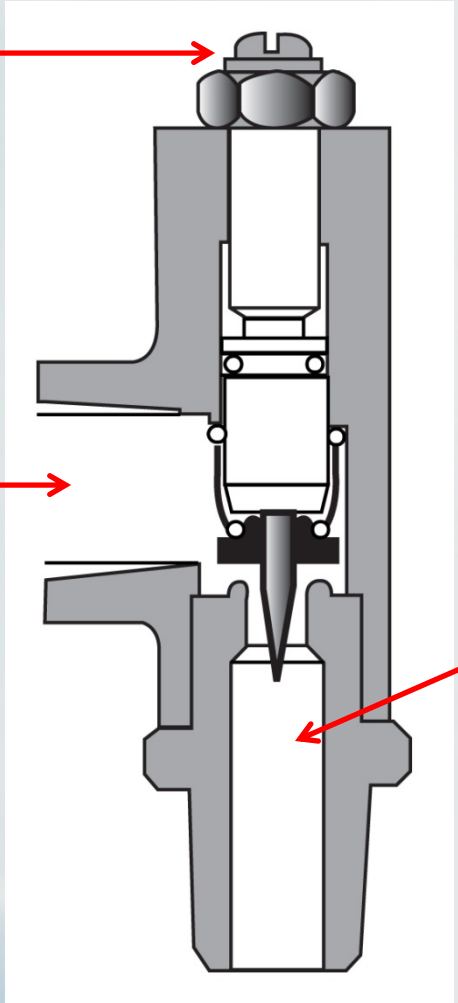
PRV with Speed Controls and Gauges



CV Speed Controls – Opening and Closing

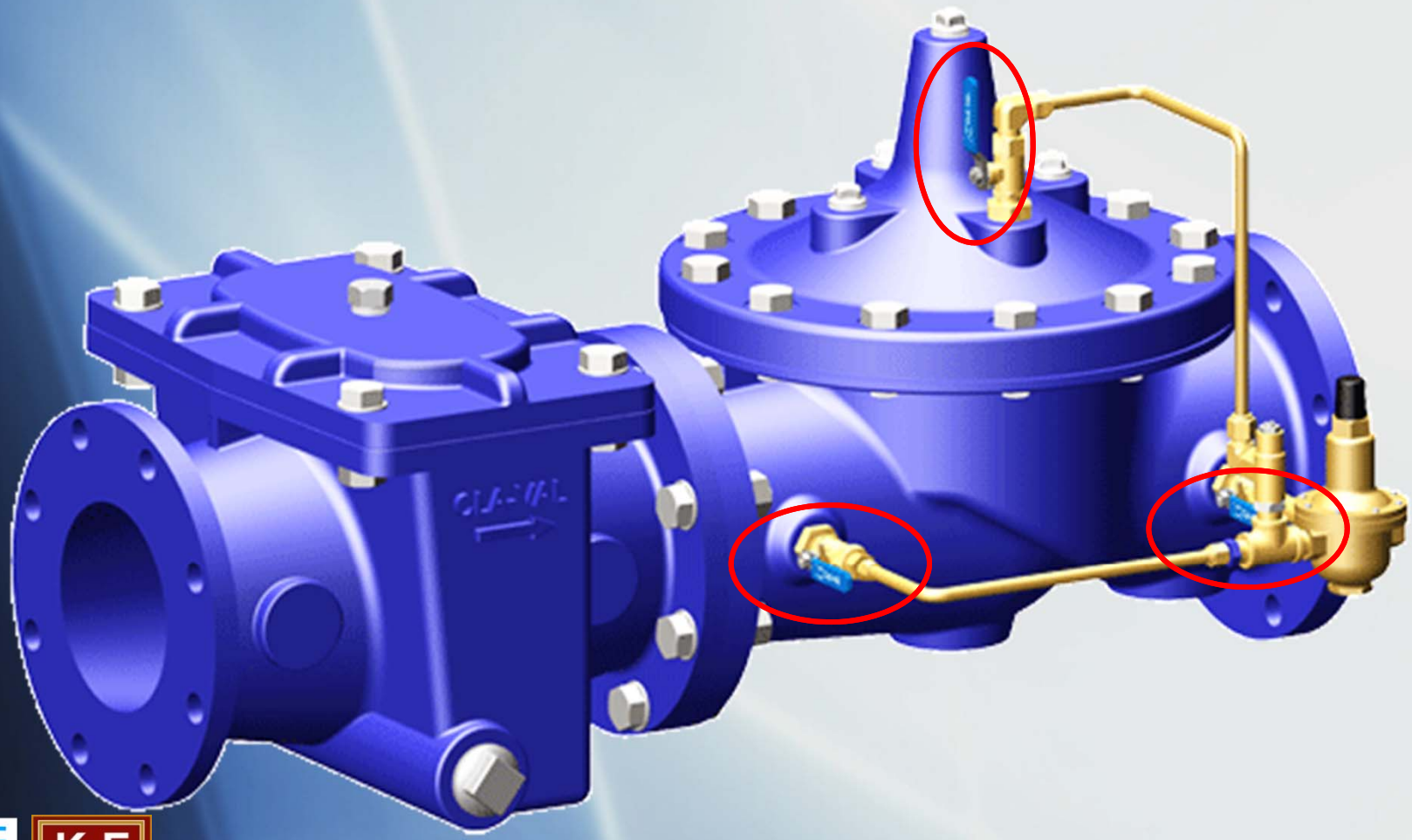
Adjust Clockwise to Decrease valve speed.

Restricted Flow Port

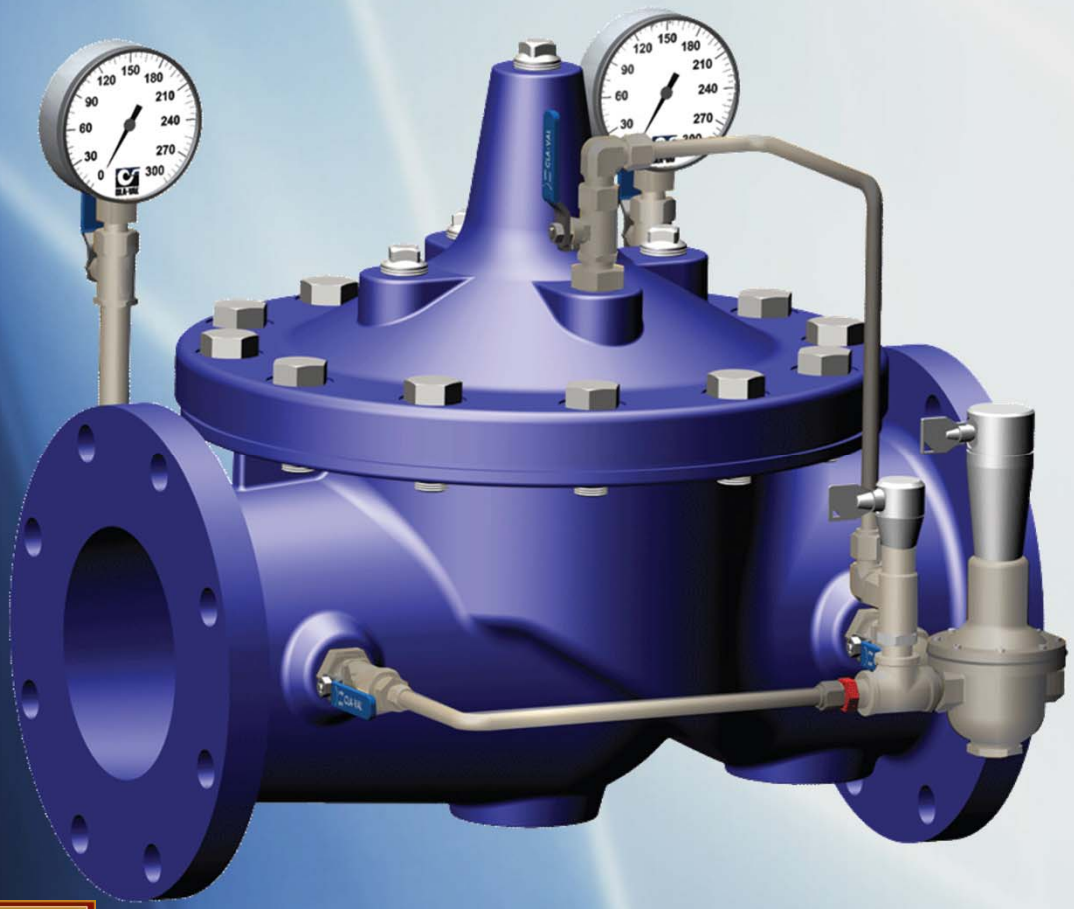


Non-Restricted Port

90-01H with CK2 Isolation Valves



90-01 PRV with Gauges



X141 Gauges

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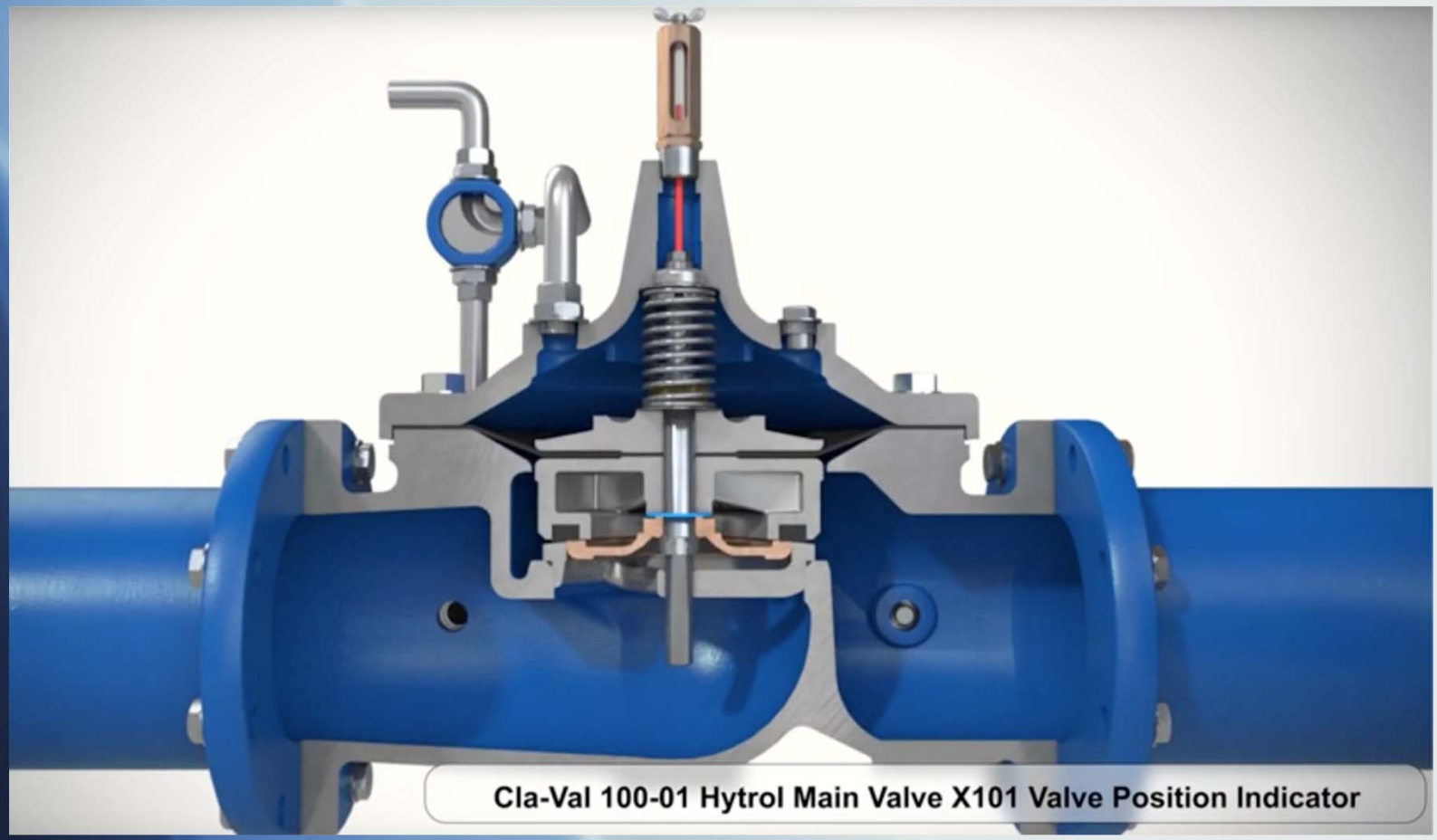
PRV Body Connection

X101 Position Indicator

Main Valve with X101 Position Indicator



X101AR Valve Position Indicator with Air Release Feature

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Automatic Control Valves

X144 e-Flow Meter and X145 E-Display

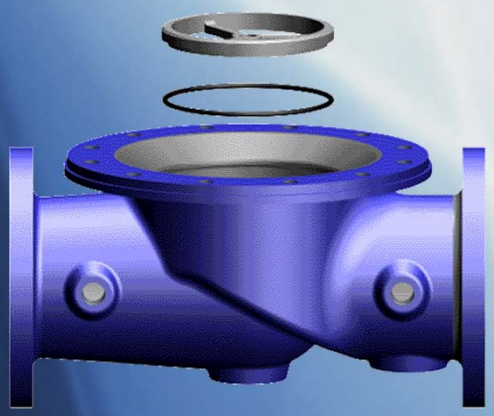
Patent Pending

The self-contained X144 e-FlowMeter can be installed in the inlet tappings on either side of a Cla-Val Automatic Control Valve.

Can be installed in any existing Cla-Val Control Valve.

Three Simple Assemblies

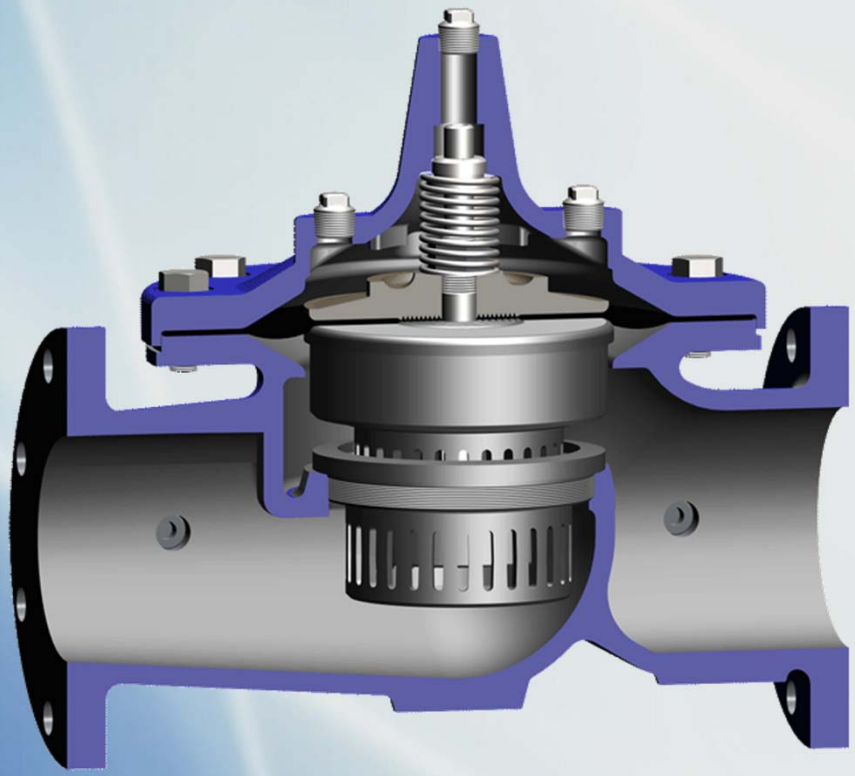
Cover & Bearing Assembly



Diaphragm & Disc Assembly

Valve Body & Seat Assembly

Cavitation Solutions for PRVs



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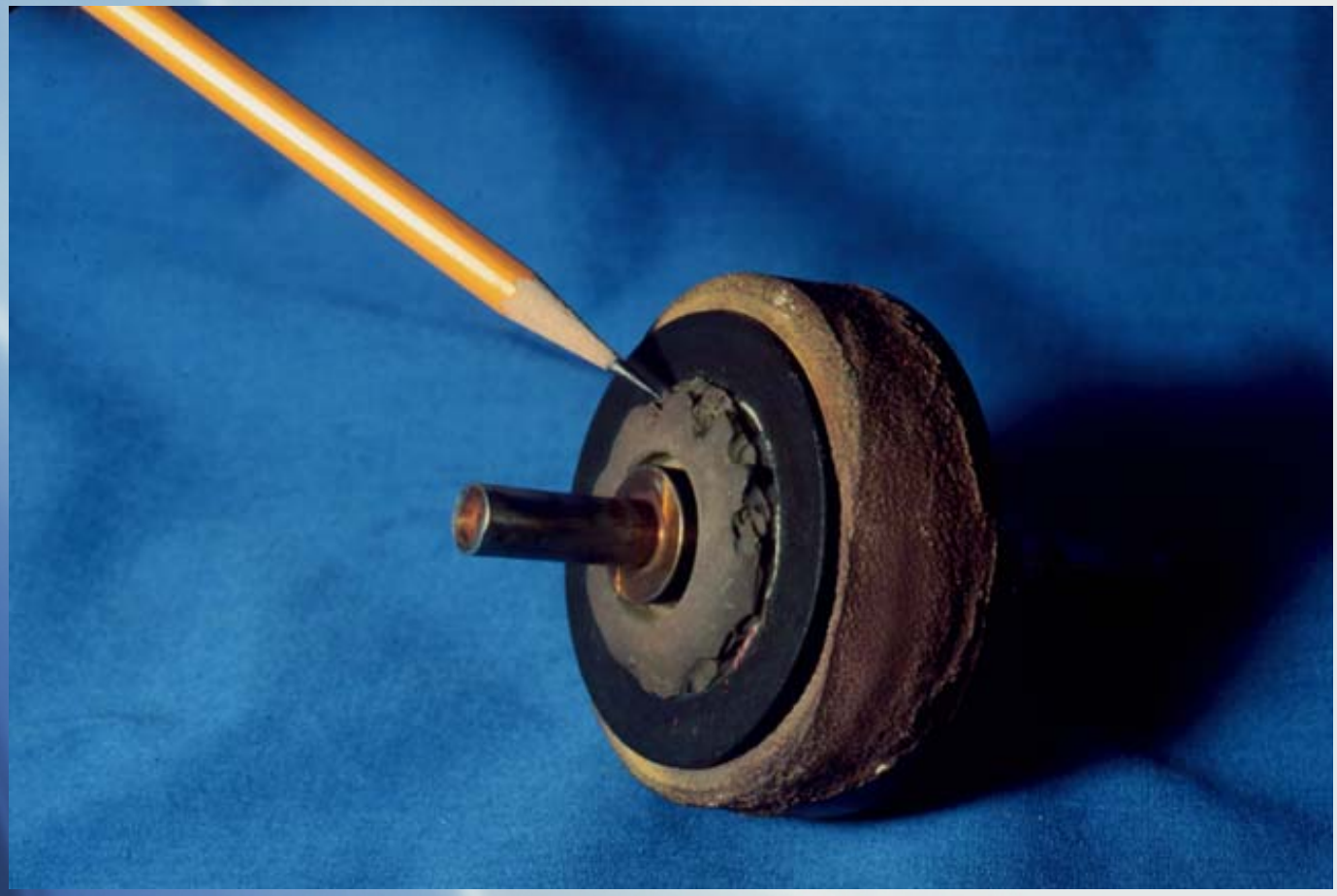
Automatic Control Valves

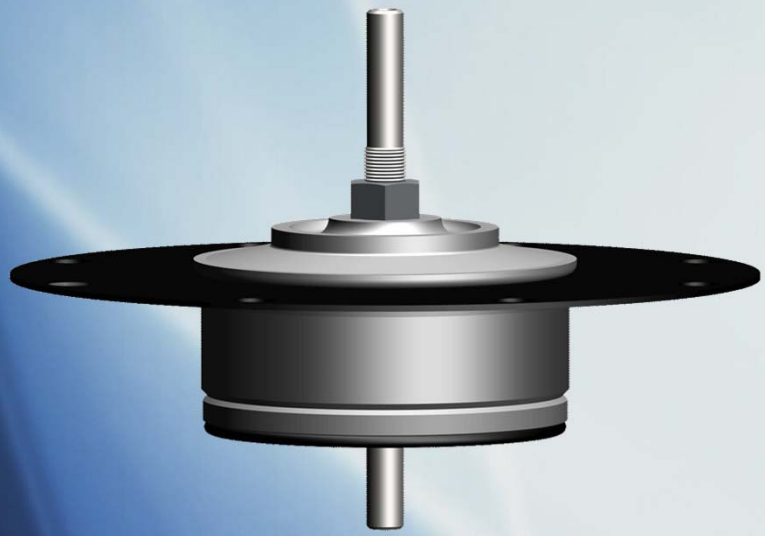
Cavitation Damage



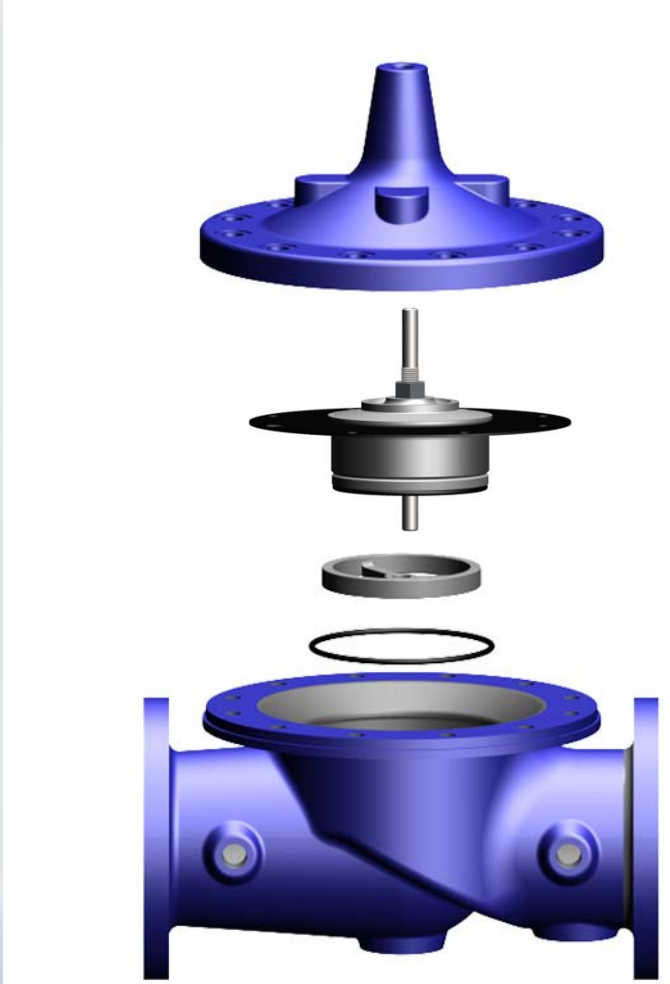
Cavitation on Main Body

Cavitation Damage on Disc Retainer

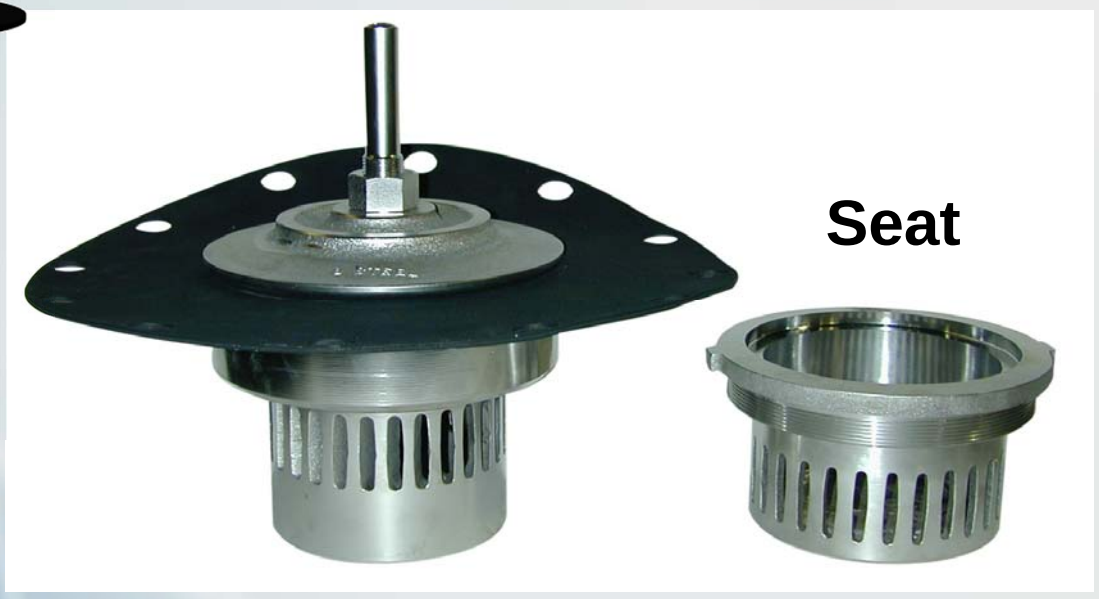
One Moving Part Inside the Valve



Disc & Diaphragm Assembly



100-01KO Anti-Cavitation Components



Seat

Disc Guide

Pressure Reducing Valve Chamber Design and Operation

Thank you!

For further information or questions please contact:

Kemtag Enterprises Ltd.
Email: Sales@Kemtag.com

Todd Elliott 506-852-4004