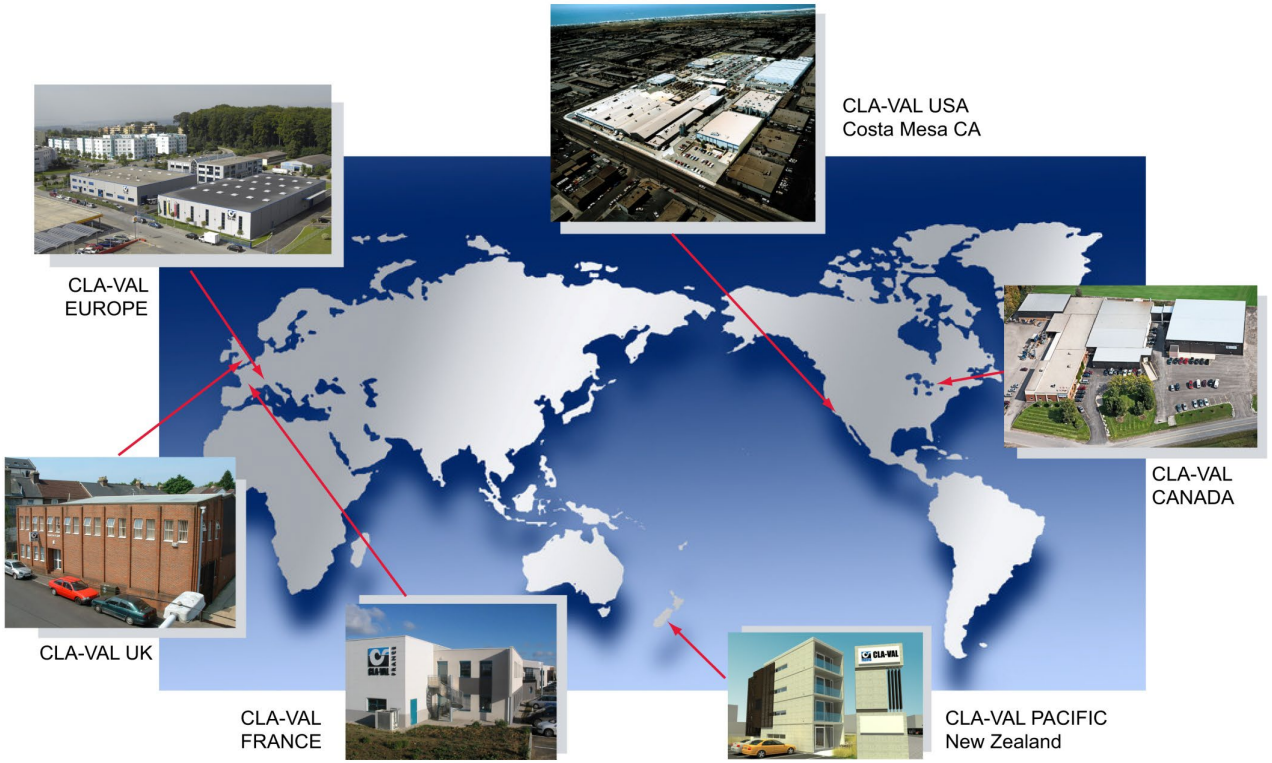
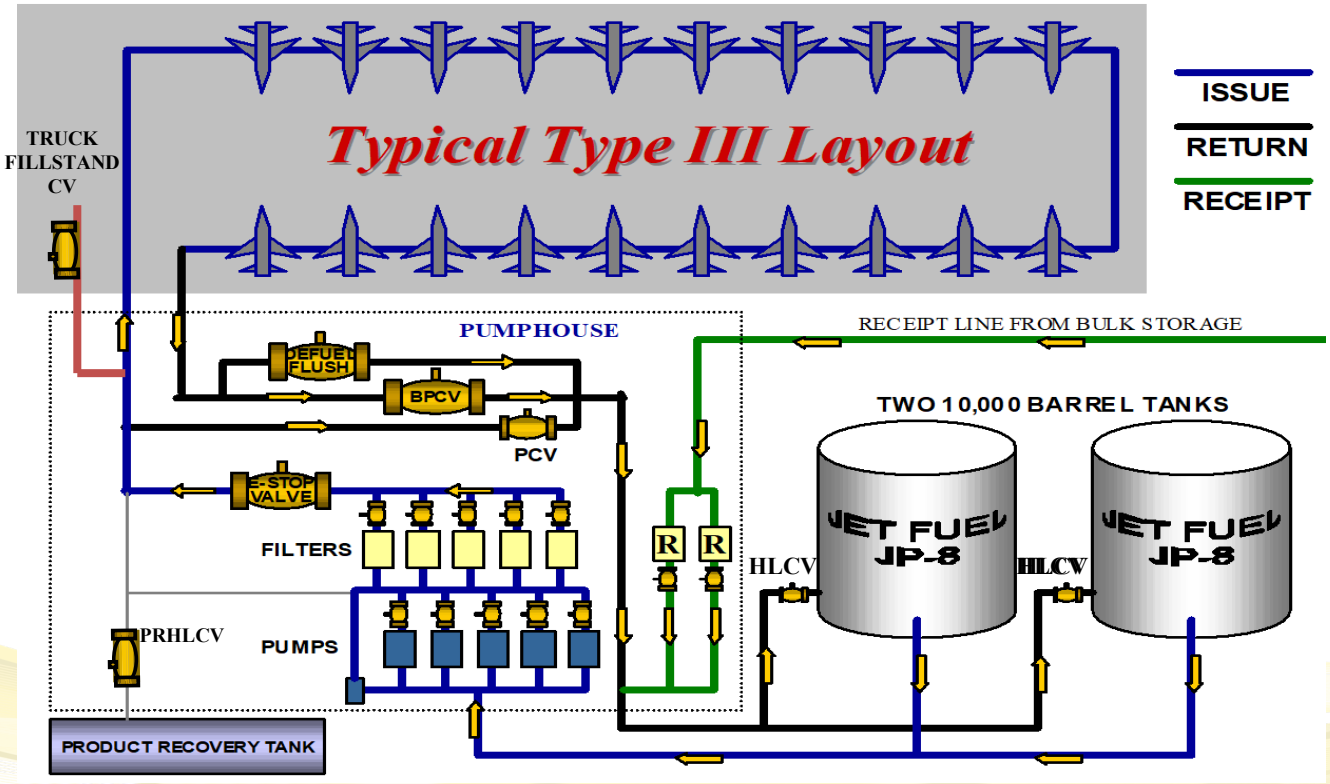

CLA-VAL
FUELING

Global Presence



Tank Farm to the Aircraft Solutions

Type III Hydrant Fueling System Control Valves



Cla-Val Hytrol Main Valve

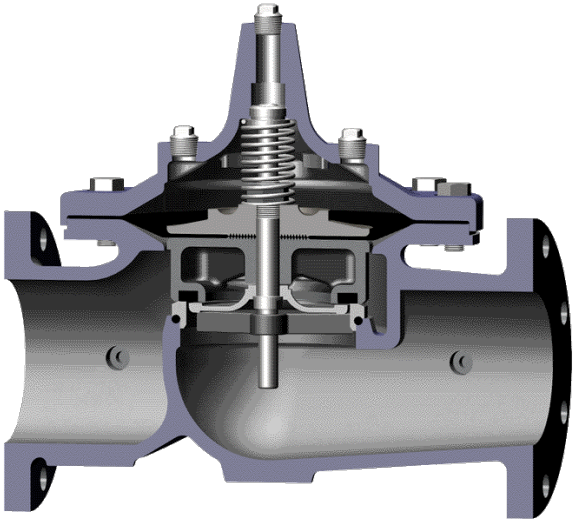
Valve Sizes from 3/8” to 56”

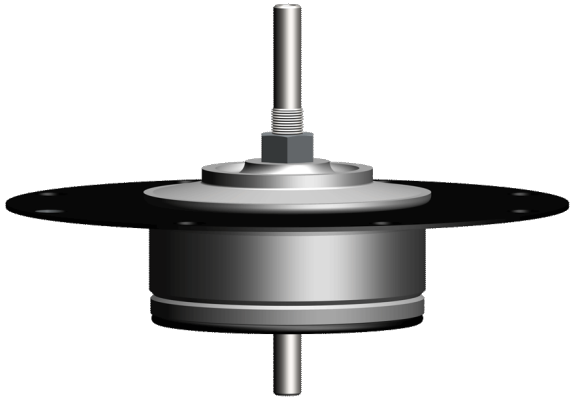
3/8” Hytrol

Cla-Val Hytrol Main Valve

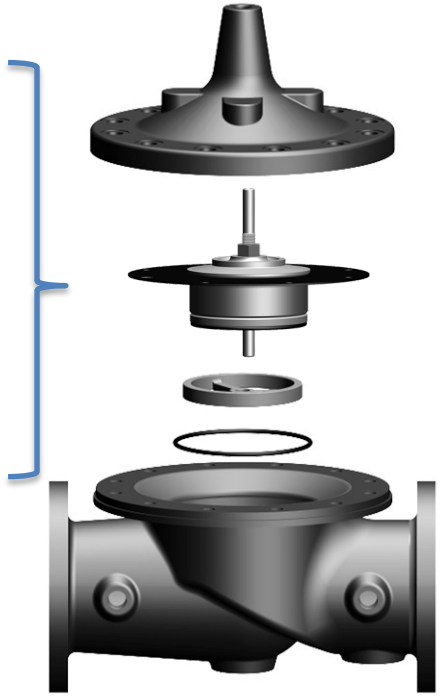
- Modified Globe Design
- Diaphragm Actuated
- Hydraulically Operated
- Pilot Controlled
- “Fail Safe”

Cla-Val Hytrol Main Valve

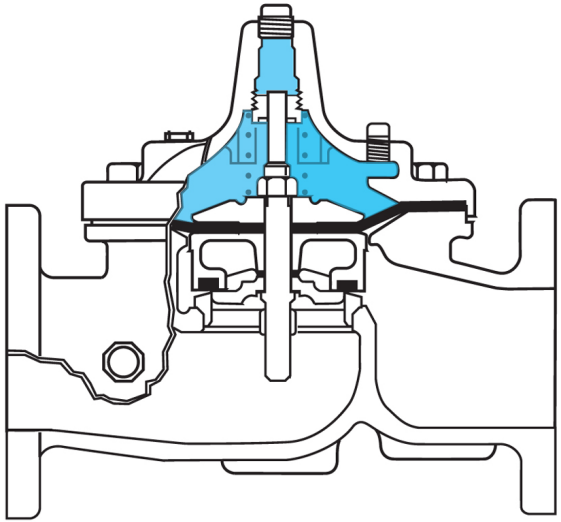




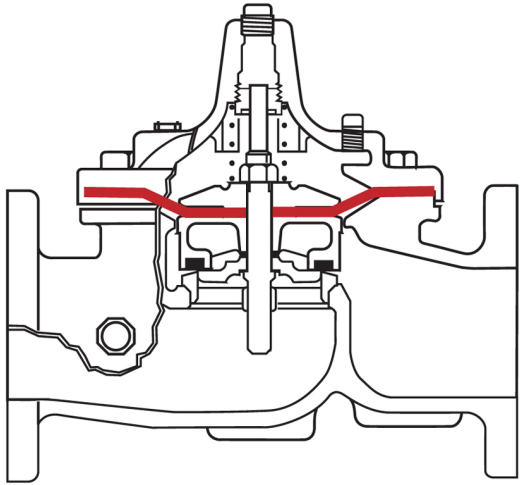
Diaphragm Assembly



Cla-Val Hytrol Main Valve



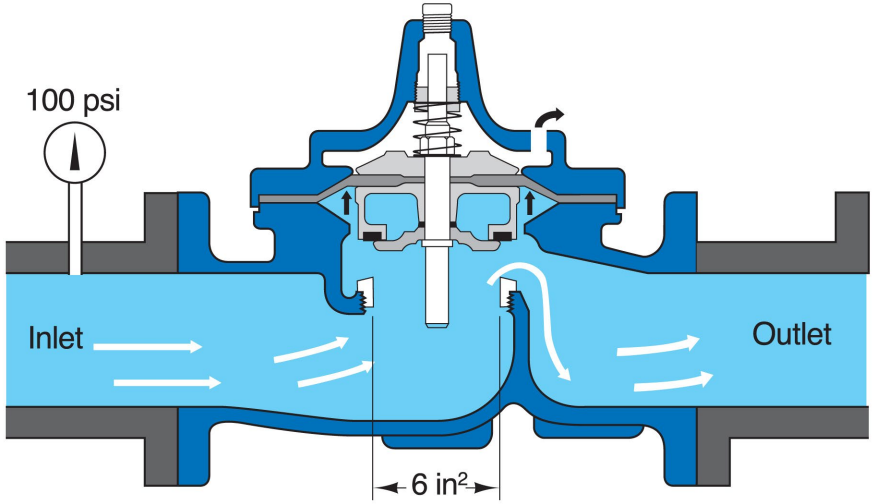
Hydraulically Operated



Diaphragm Actuated

Cla-Val Hytrol Main Valve

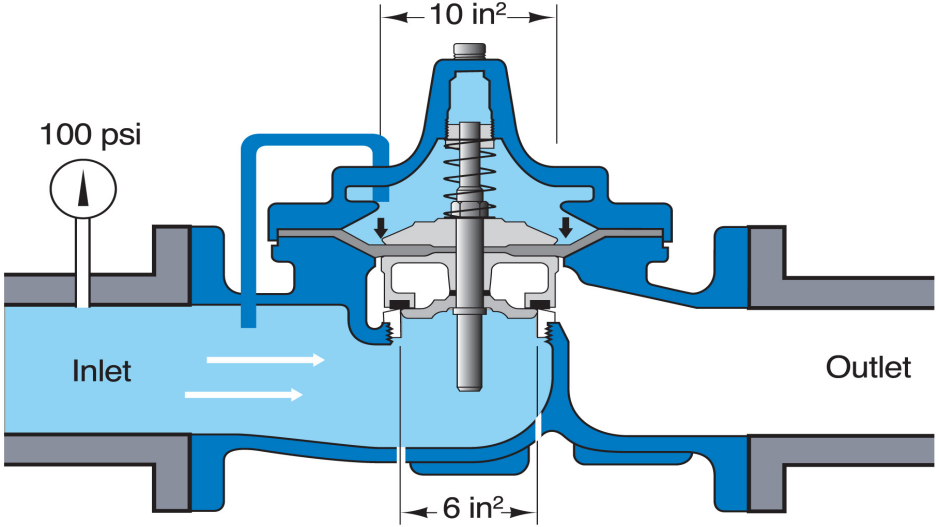
Line Pressure to Open



100psi.x 6 = 600lbs.

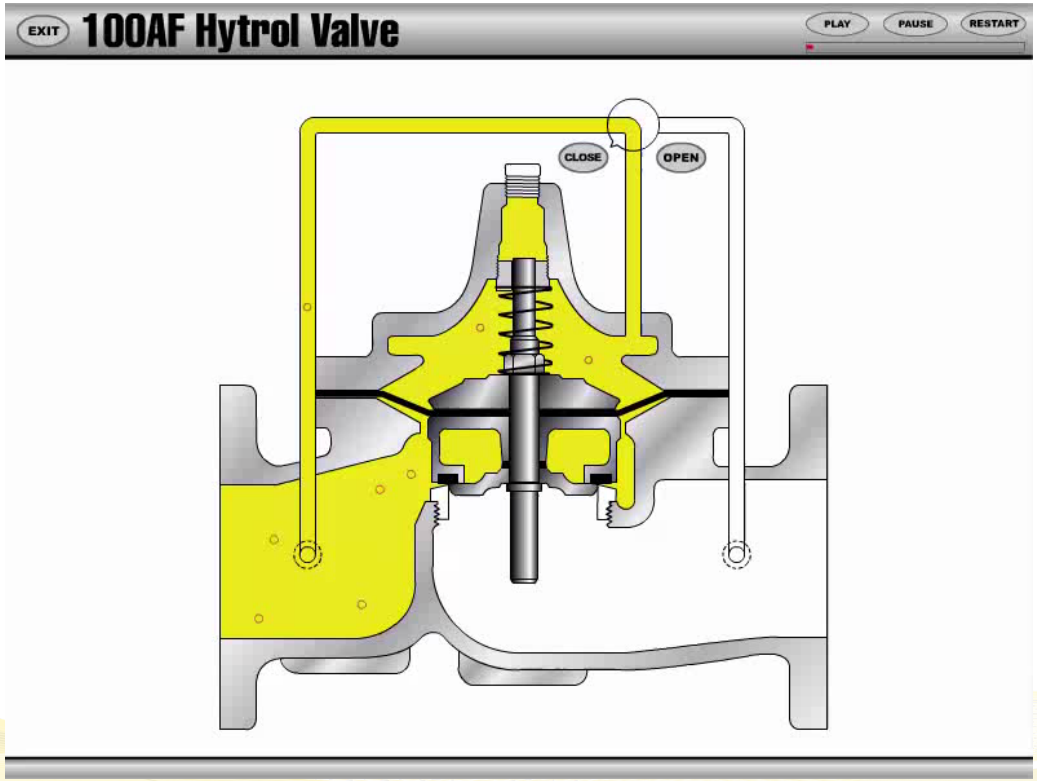
Cla-Val Hytrol Main Valve

Line Pressure to Close



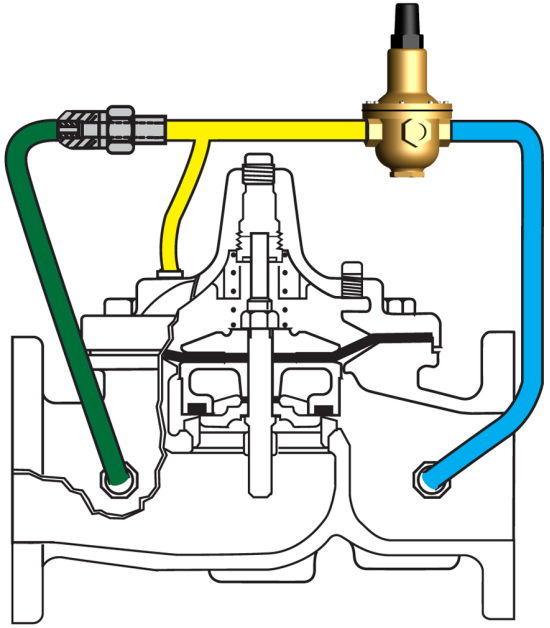
Closing Force 100 x 10 = 1000 lbs.
Opening Force 100 x 6 = 600 lbs.
Difference = 400 lbs.

Cla-Val Hytrol Main Valve



Cla-Val Hytrol Main Valve

Controlling Pressure in Main Valve Cover



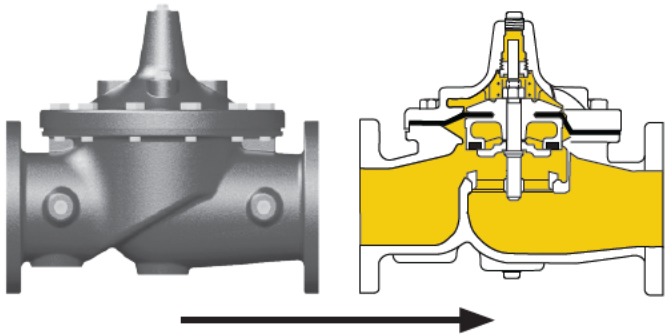
Pilot Controlled

Cla-Val Hytrol Main Valve

FLOW ORIENTATION

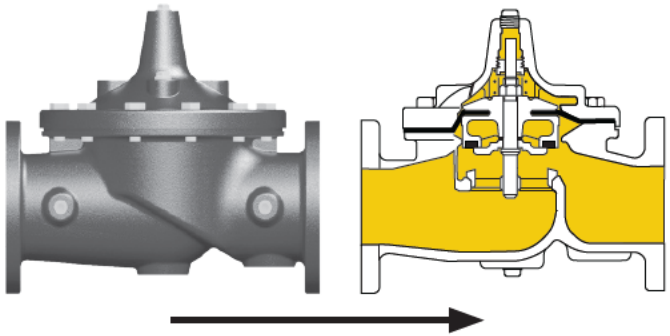
REVERSE FLOW

Flow Over Seat, Fail Close - *Typical For Most Fuel Valves*



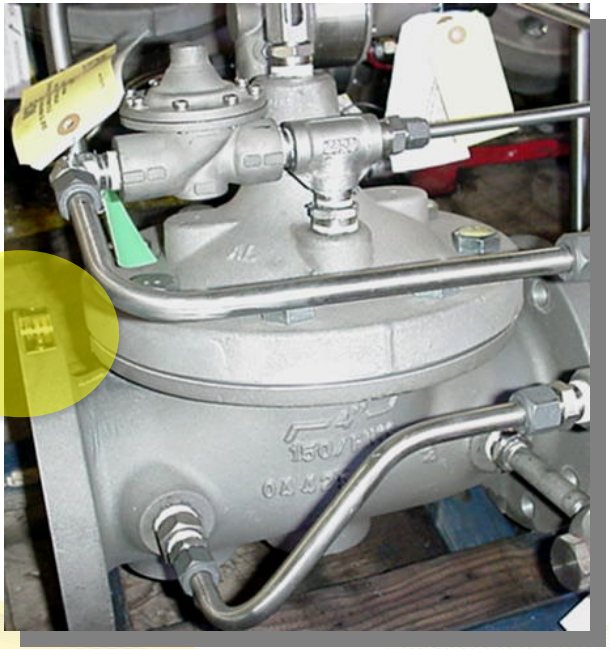
NORMAL FLOW

Flow Under Seat, Fail Open - *Typical For Relief Valves*



Name Plate Locations

2.5” & Larger
On inlet Flange



2.0” & Smaller
On side of Valve Body

Name Plate


INLET
EINTRITT
ENTR'EE
ENTRADA
SIZE & CAT NO.
4-129AF-3H-2KX
STOCK NO.
20236401B
CODE
MFD. BY CLA-VAL CO.
NEWPORT BEACH, CALIF., U.S.A.

Applications and Functions

TANK HIGH LEVEL SHUTOFF

PUMP FLOW CONTROL

FILTER SLUG VALVES

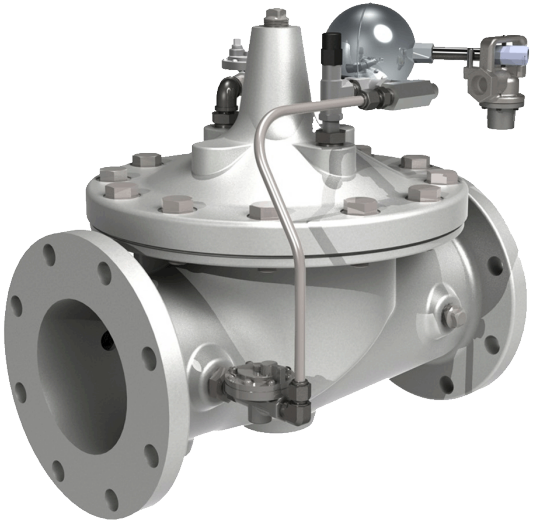
TRUCK FILL STAND & AIRCRAFT FUELING

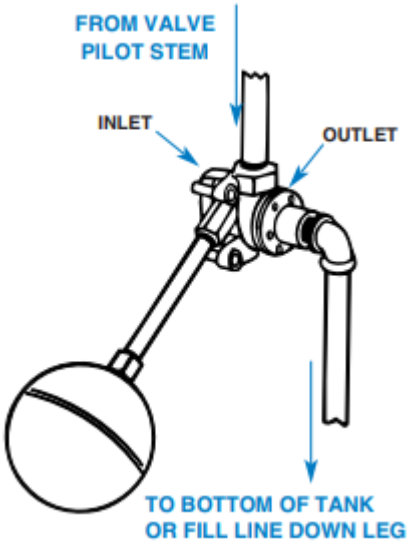
BACKPRESSURE CONTROL VALVES

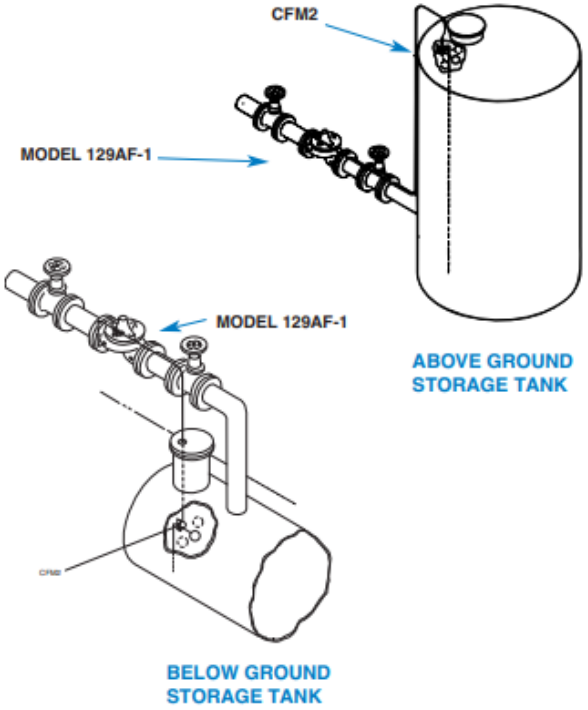
High Level Shutoff Valves

High Level Shutoff
(Externally Mounted Float)

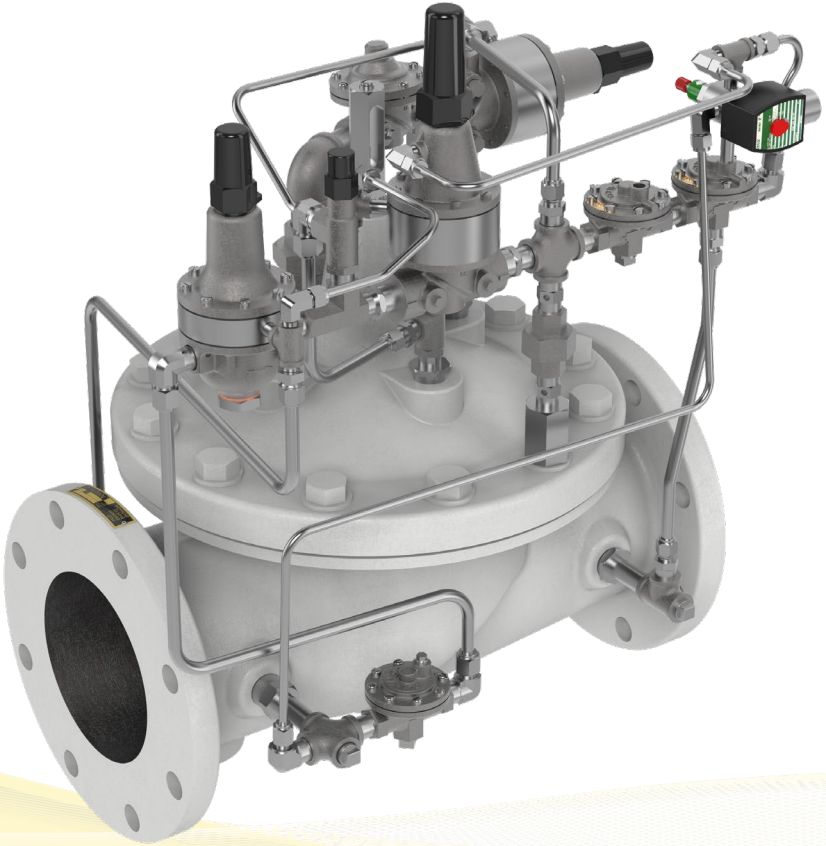
High Level Shutoff
(Internally Mounted Float)







High Level Shutoff



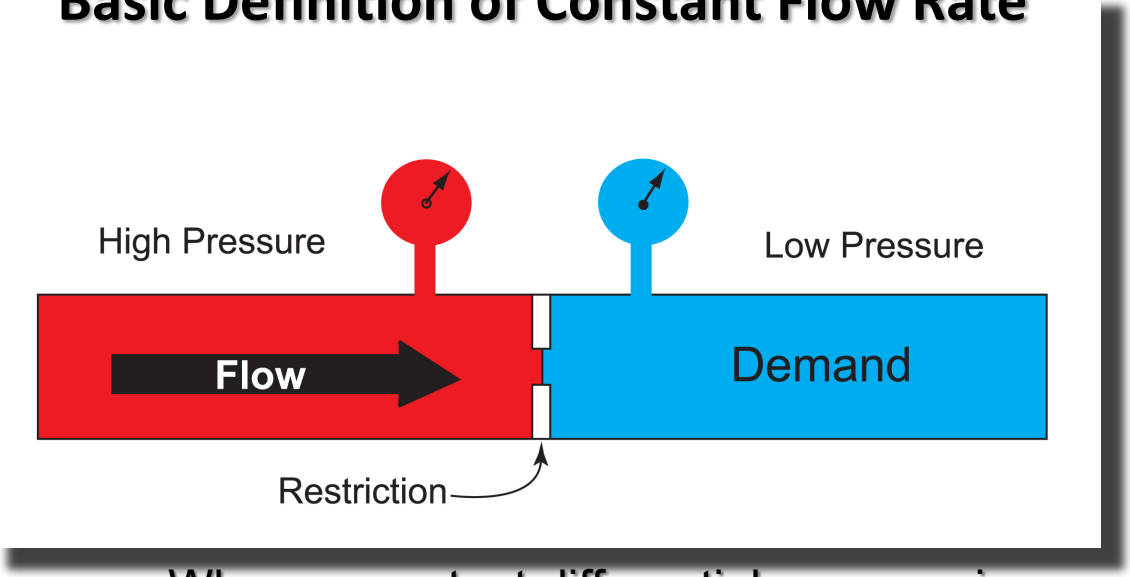
Common Features

- **Solenoid Shutoff Valve**
- **Differential Control**
- **Pressure Sensitive Closing**
- **Rapid Opening Feature**
- **Check Features**

Pump Flow Control Valves

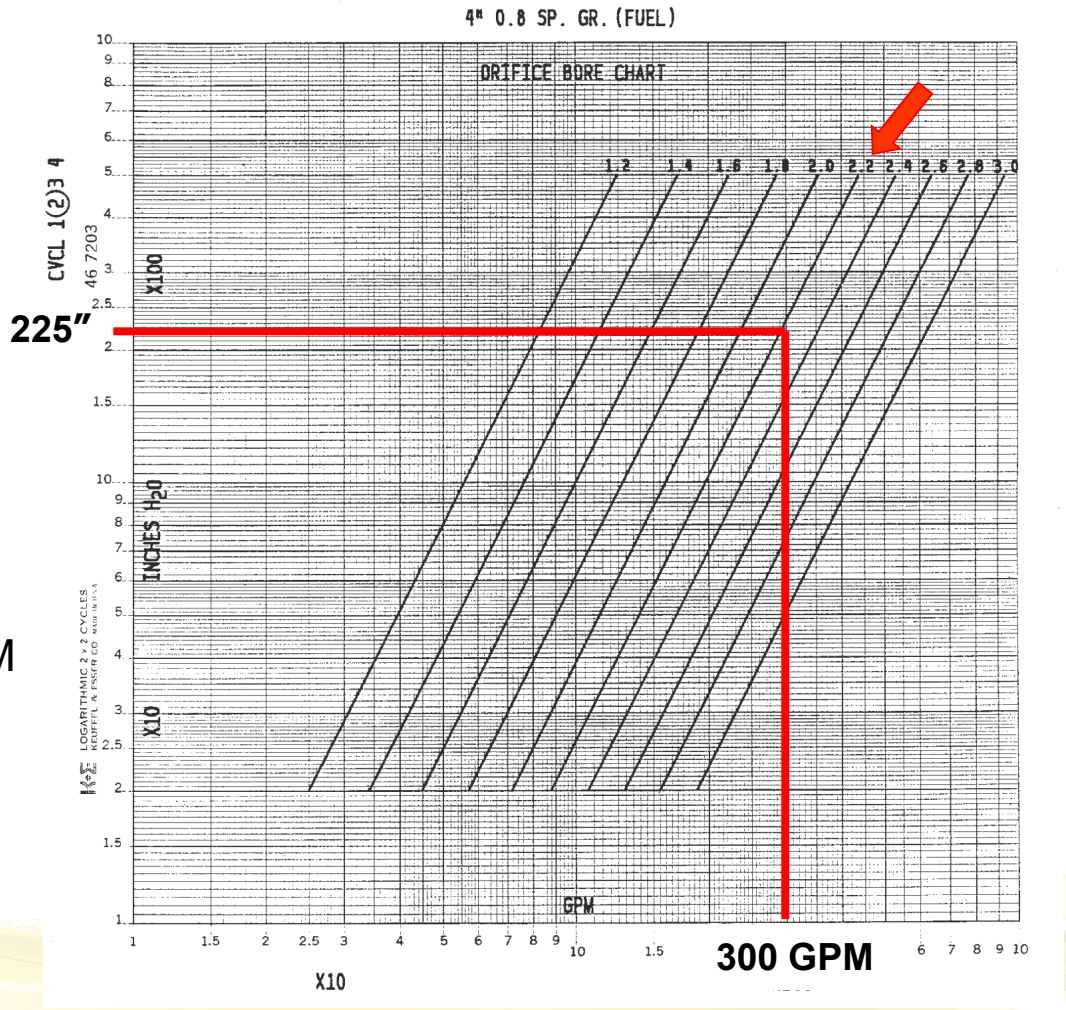
Pump Flow Control Valves

Basic Definition of Constant Flow Rate



When a constant differential pressure is across a fixed restriction

CLA-VAL FUELING

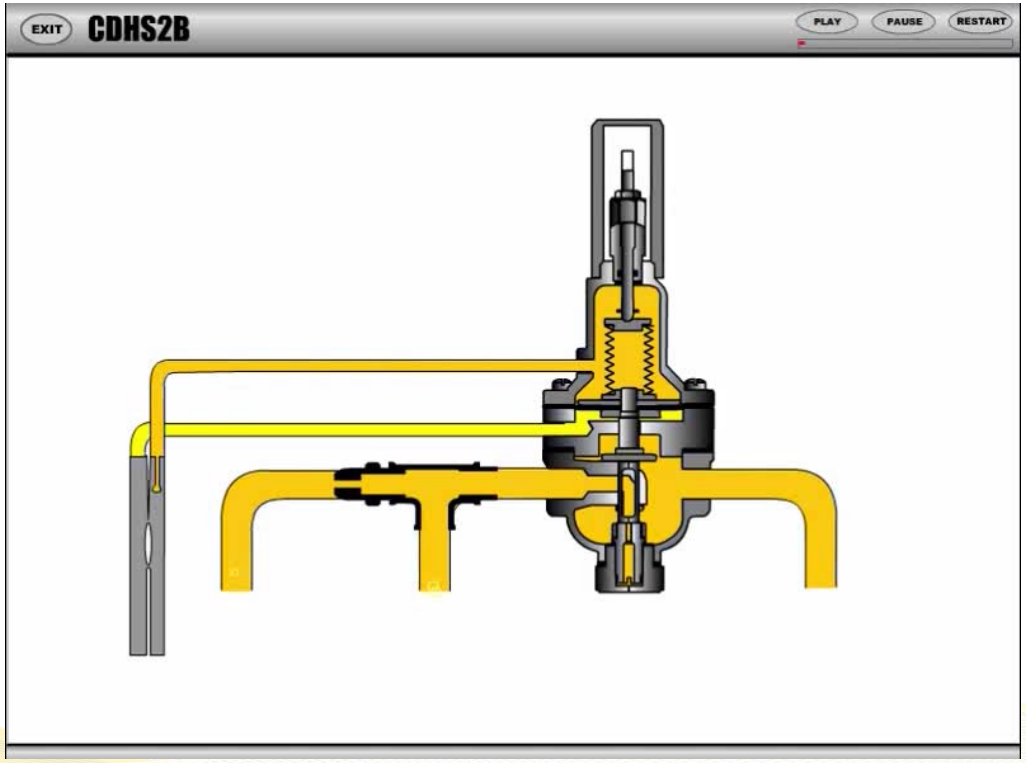


4-inch Orifice Bore Chart

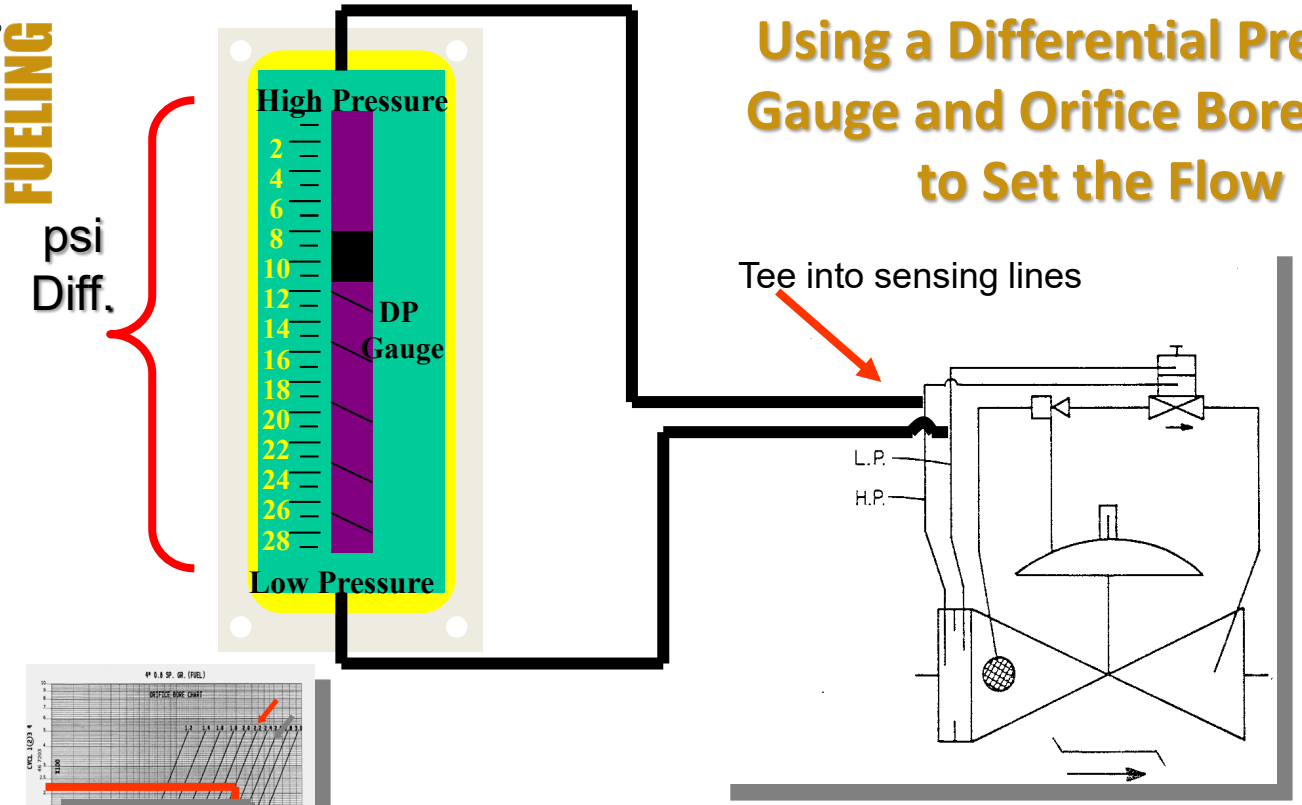
FLUID: 0.8 SG
PIPE SIZE: 4in
ORIFICE ID: 2.2"

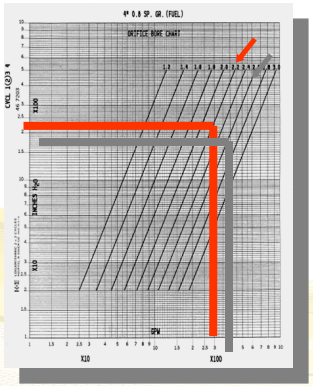
8.1 psid (225" H20) = 300 GPM

CDHS2B Differential Control Pilot

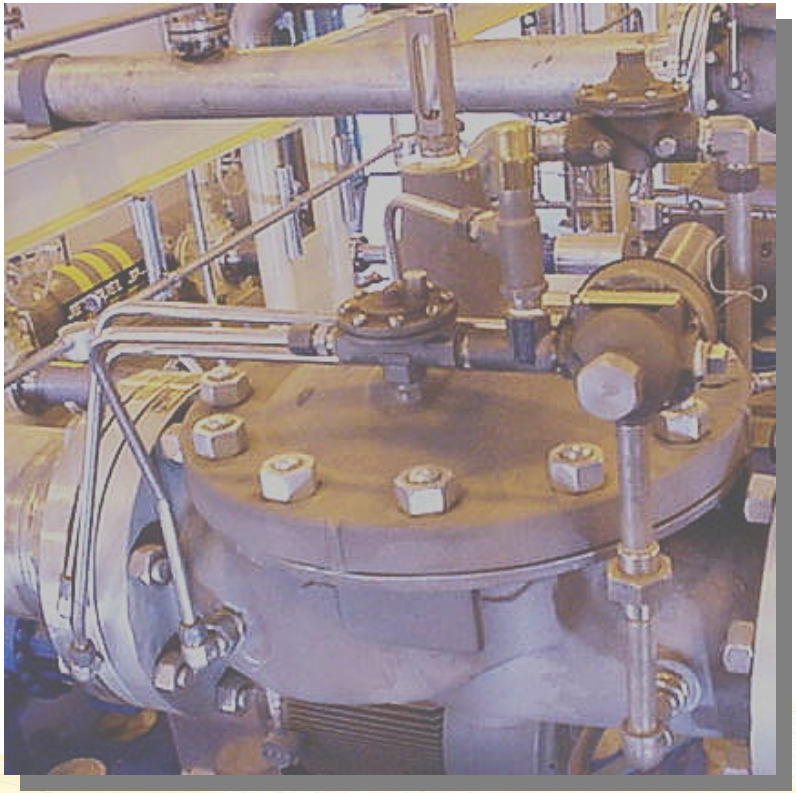


Using a Differential Pressure Gauge and Orifice Bore Chart to Set the Flow





Pump Flow Control Valves

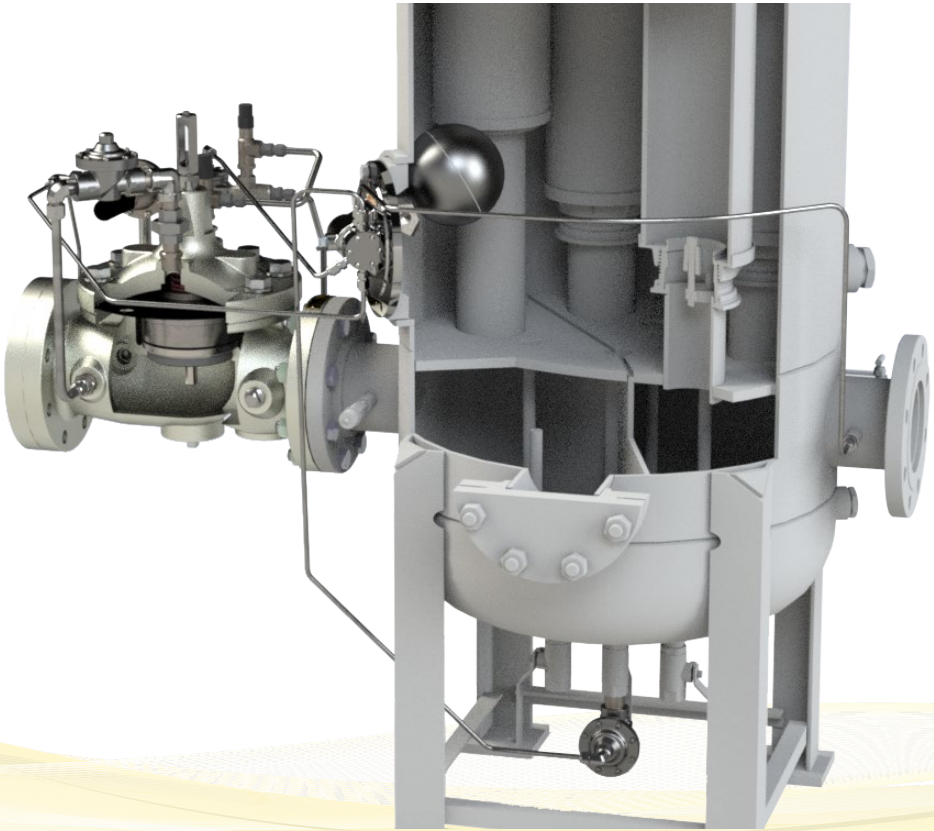


Common Features:

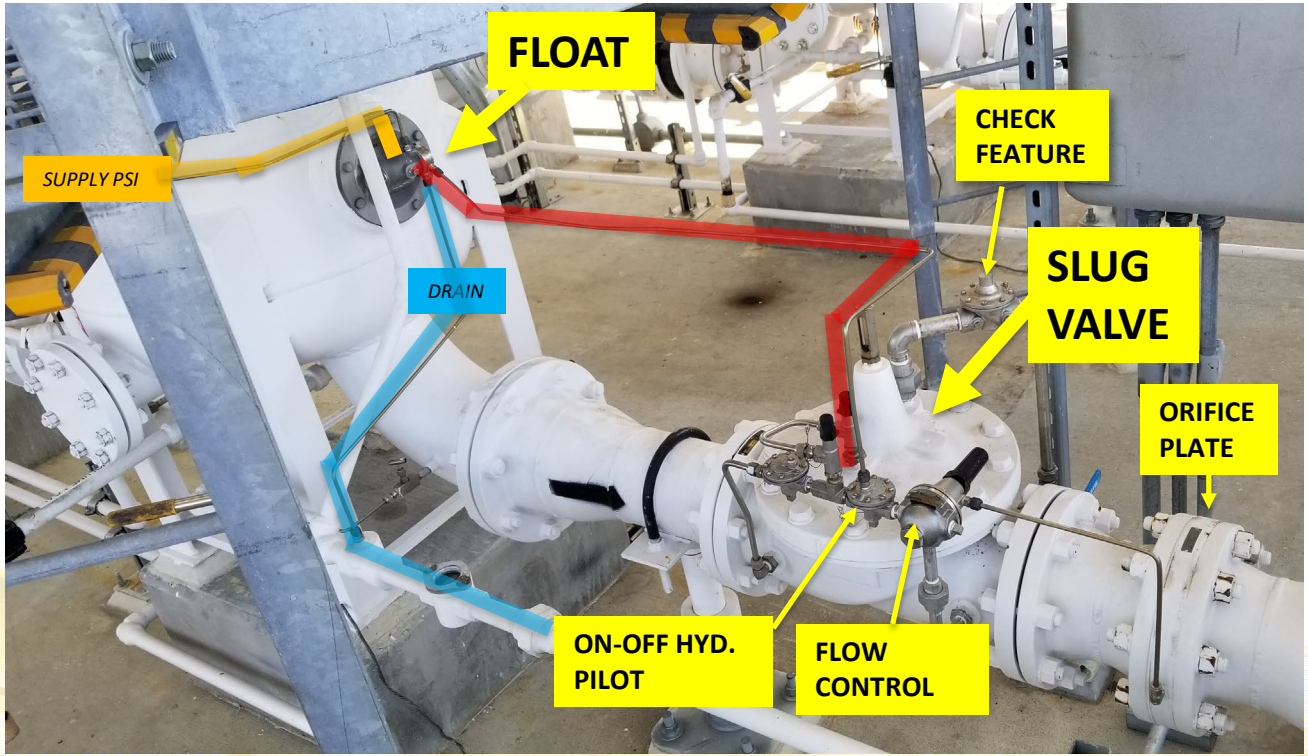
- **Flow Limiting**
- **Check Feature**

Filter Separator Control Valves

Filter Water Separator Slug Valve and Automatic Water Drain Installation



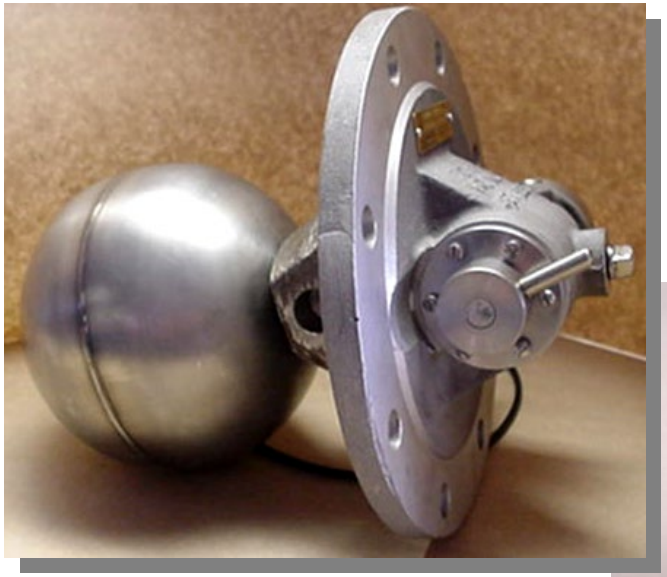
Filter Water Separator Slug and Float



Common Features:

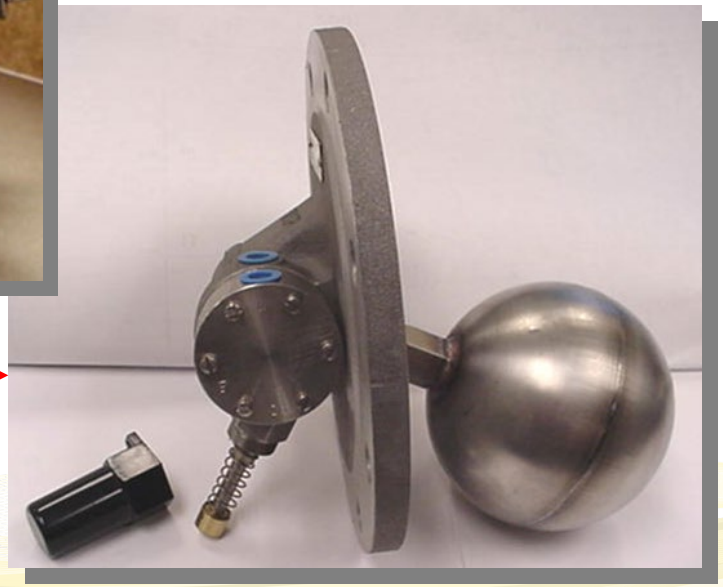
- Flow limiting
- Float On-Off
- Check Feature
- Valve Min. DP
- Filter Max DP Shut
- Solenoid On/Off

Filter Water Separator - Float



CFF21-H2 Filter Float Assembly With Removable Ballast Weight

CFF18T-H2 Filter Float Assembly with Tester



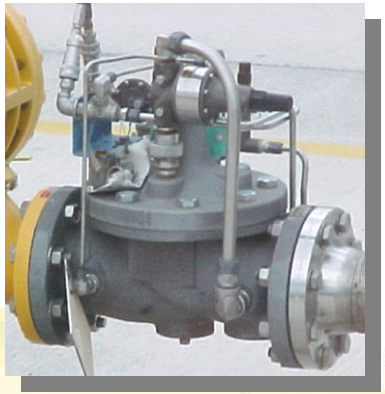
Filter Water Separator – On/Off Pilot

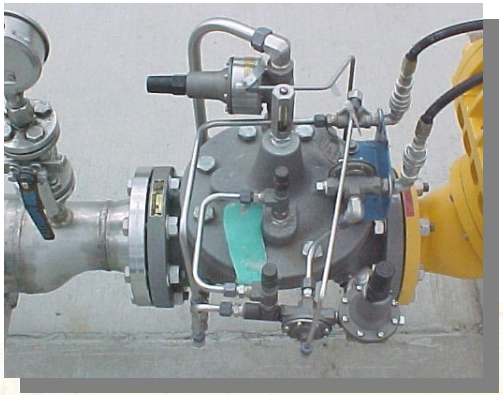
Truck Fill Stand Control Valves

Truck Fill Stand Control Valves

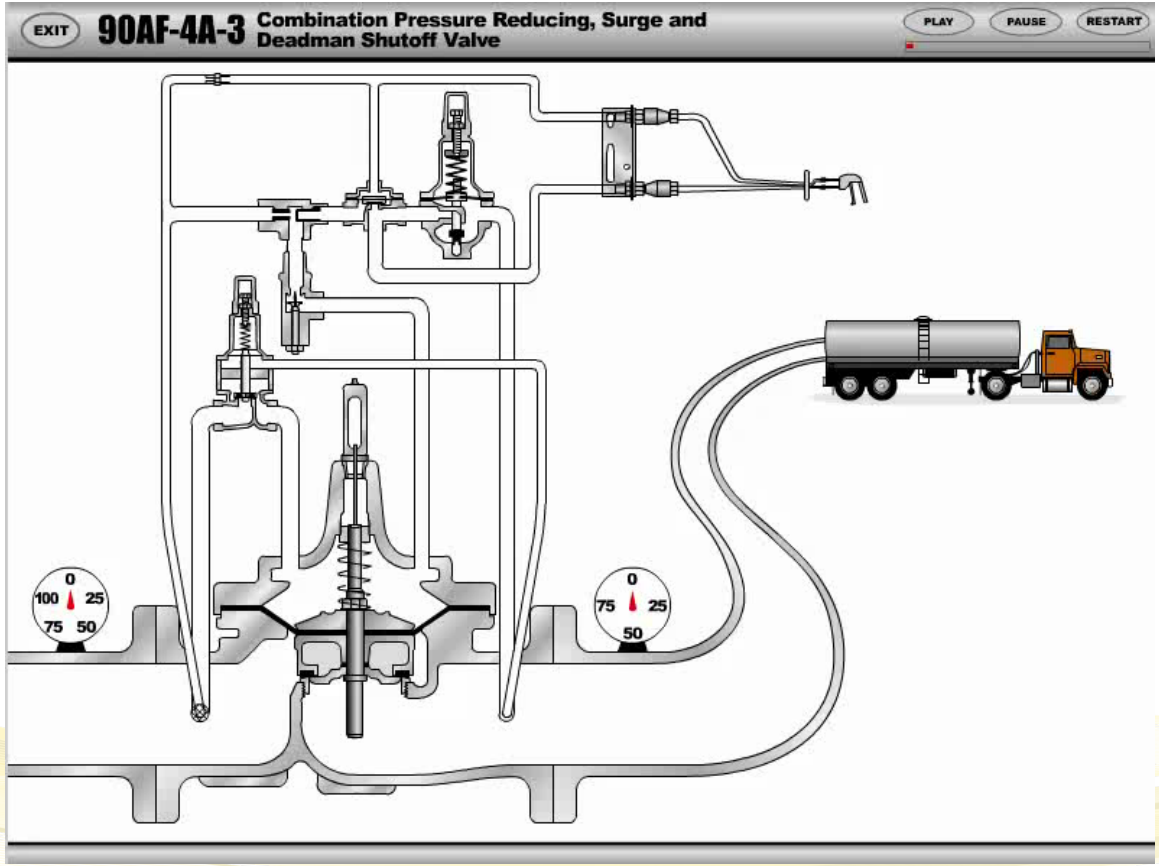
Common Features

- Manual On-Off Deadman
- Pressure Reducing
- Surge Control



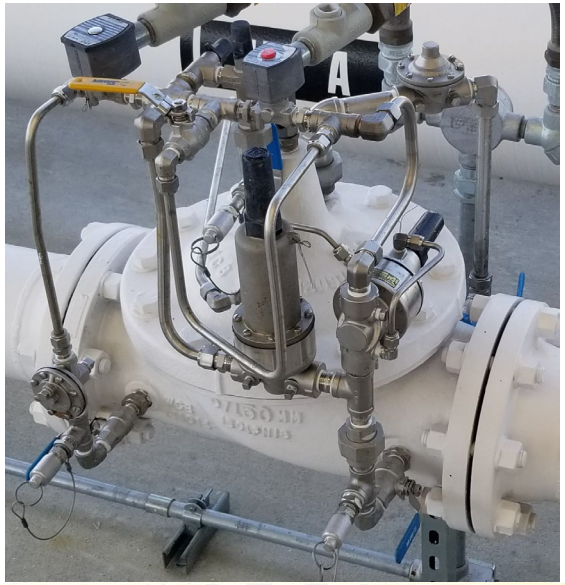


Truck Fill Stand Control Valve



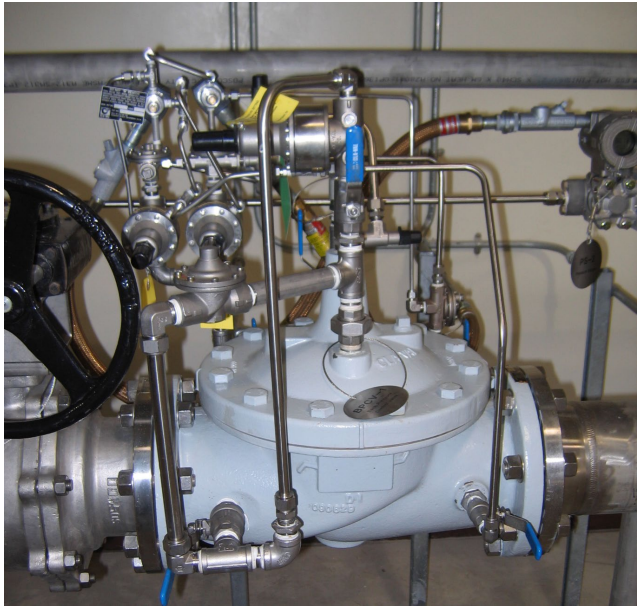
Truck Fill Stand Control Valve

Digital Control Valves



Back Pressure Control Valves

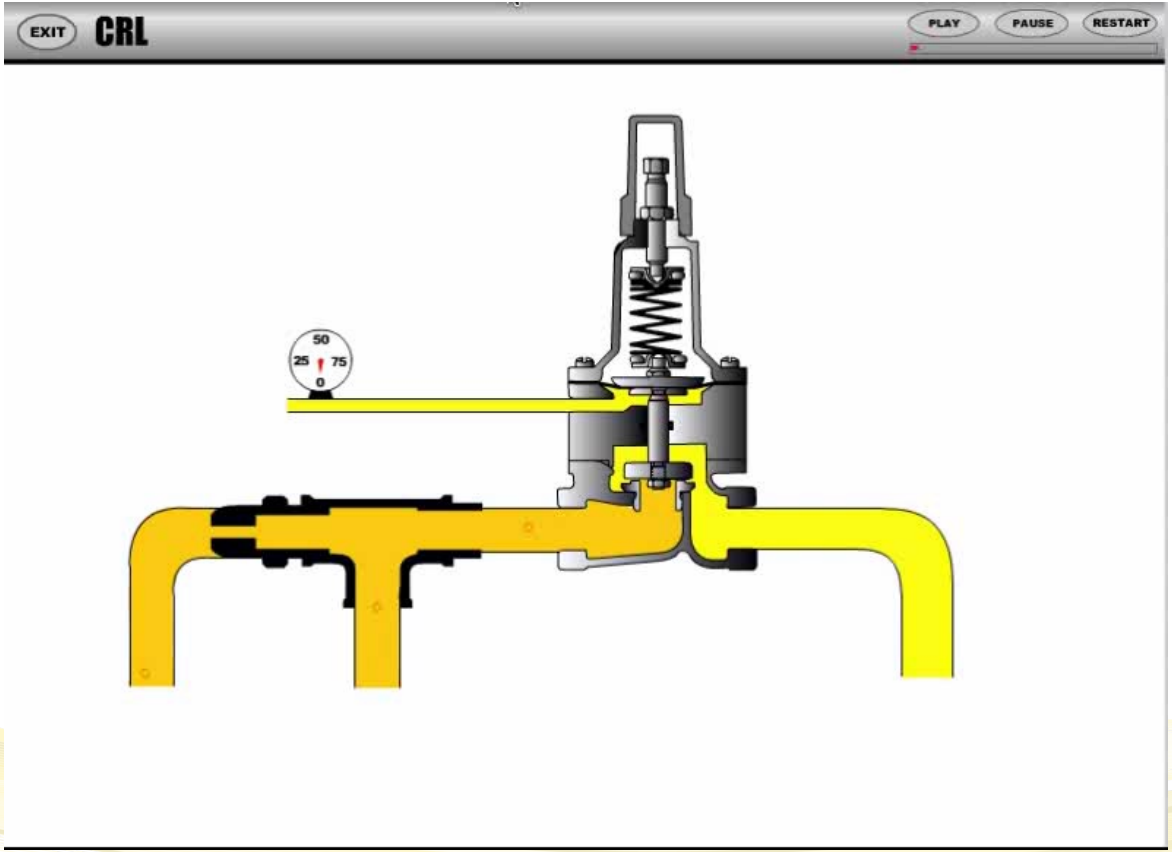
Back Pressure Control Valve



Common Features

- **Backpressure,** *(Multiple settings)*
- **Solenoid On-Off**
- **Check Feature**
- **Quick Opening**

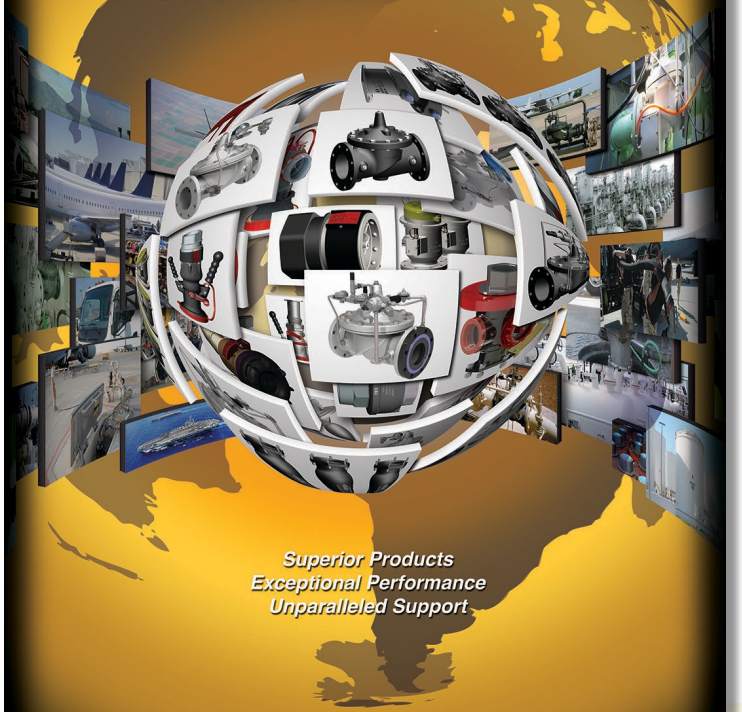
Back Pressure Control Valve



CLA-VAL FUELING

CLA-VAL

AVIATION FUELING PRODUCTS & APPLICATIONS



Superior Products
Exceptional Performance
Unparalleled Support