

CV CVS-1

MODEL-

Flow Controls



- Corrosion Resistant
- Easy Adjustments
- Automatic Operation
- No Lubrication
- Operates In Any Position
- Easy Maintenance

The CV Control is an adjustable restriction which acts as a needle valve when flow is in the direction of the stem. When flow is in the reverse direction, the port area opens fully to allow unrestricted flow. When installed in the control system of a Cla-Val automatic valve, it can be arranged to function as either an opening or closing speed control.

- No Lubrication
- Corrosion Resistant
- One Moving Part
- Replaceable Teflon Coated Seal
- Fast Acting, Non-Sticking
- Easy Maintenance



The CVS-1 Shuttle Valve is precision engineered for lasting dependable service. The CVS-1 combines instantaneous action with one moving part designed for smooth positive operation with minimum wear. The flow pattern interconnects the highest pressure from two separate pressure zones (ports "A" or "B") to a common port "C". The two pressure zones, ports A or B can never flow to one another.

The design incorporates precision sealing required for low pressure or high pressure operation. The seal is teflon coated to prevent sticking under the most adverse conditions of exposure or prolonged actuation in one position. The CVS-1 Shuttle Valve incorporates all the required features for lasting dependable service.

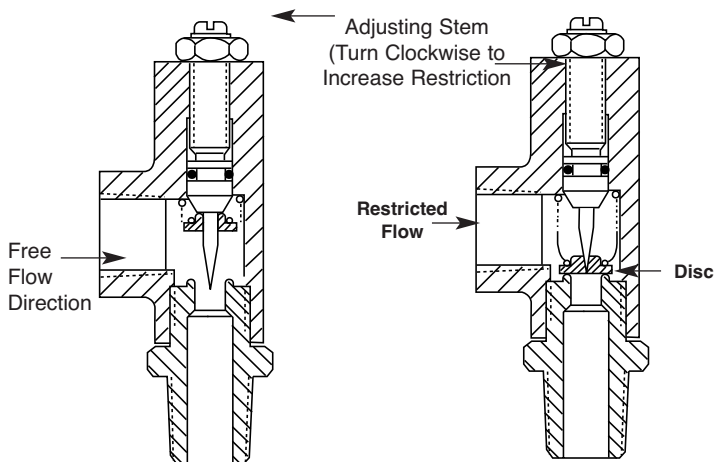
Specifications

Size	3/8"
End Detail	3/8" NPT – One connection male & one connection female
Pressure Rating	400 psi Max.
Temperature Range	250°F Max.
Materials	Housing: Bronze ASTM B61 Trim: Stainless Steel 303 Other Materials available: All Stainless Steel Bronze & Monel

Specifications

Size	3/8"
End Detail	3/8" NPT – Three Female Connections
Pressure Rating	400 psi Max.
Shifting Differential	10" Water Column Differential
CV Factor	"A" to "C" 3.5 "B" to "C" 3.1
Temperature Range	Water to 140°F
Materials	Body Cast Bronze ASTM B-62 Internal Trim Delrin Rubber Parts Static Seal Buna-N® Synthetic Rubber Shuttle Seal Buna-N® Synthetic Rubber Teflon Coated

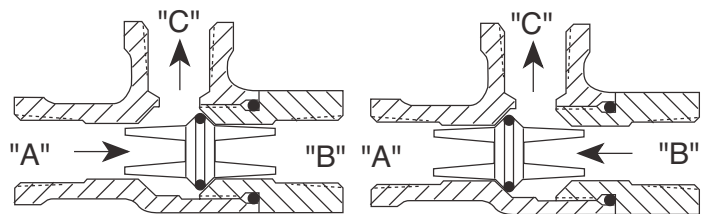
Principle of Operation



Free Flow, is against the direction of the needle. The disc is forced off its seat by line pressure allowing full capacity flow through the control

Restricted Flow, is in the direction of the needle. This disc is forced against its seat by line pressure. Flow is metered through the control by the fine taper of the needle and the small openings in the disc.

Principle of Operation



Flow Direction "A" to "C"

Flow Direction "B" to "C"

Product Dimensions Data:

For the CV Flow Control dimensions see www.cla-val.com.
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