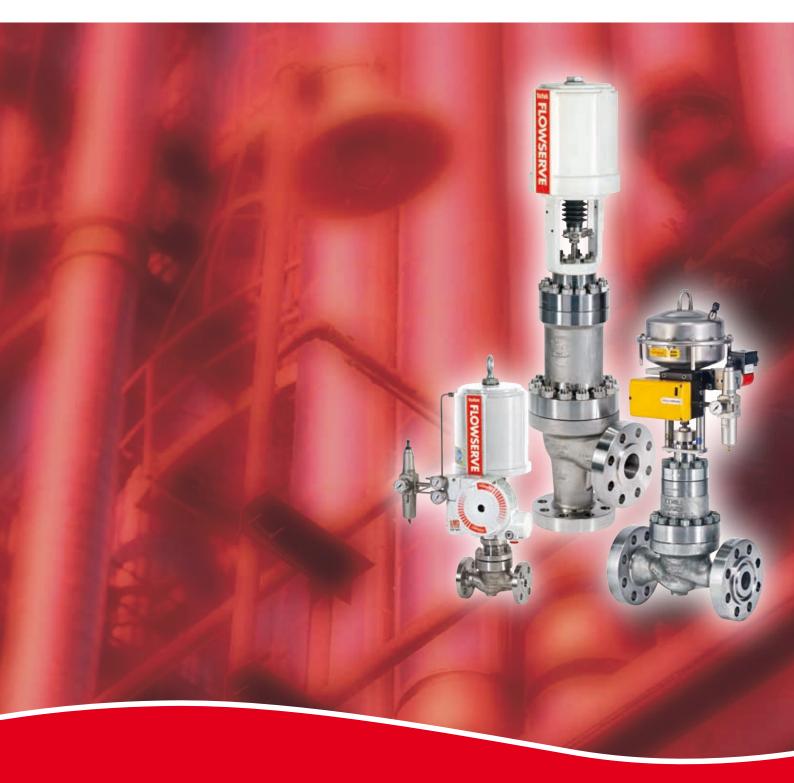


Kämmer[®] Multi-Z Severe Service Valves



Experience In Motion





Multi-Z: Good sizing makes all the difference

Multi-Z provides milestone advancement in axial flow valve sizing. With balanced sigma distribution across the stages cavitation is eliminated in the intermediate pressure drops extending the life of the trim. With the ability to pass large solids and control low Cv ranges the Multi-Z is well suited for some of the most taxing applications encountered. With a modular configuration allowing shorter deliveries and a greater number of configuration options the Multi-Z offers:

- Effective elimination of high pressure drop cavitation and noise.
- Passing of solids up to 1" (25.4 mm) without plugging.
- Long strokes for a finer resolution of control.
- Optional custom engineered configurations for your difficult applications.
- Configurations available in the most common materials.
- High nickel alloys and ceramics as engineered options.

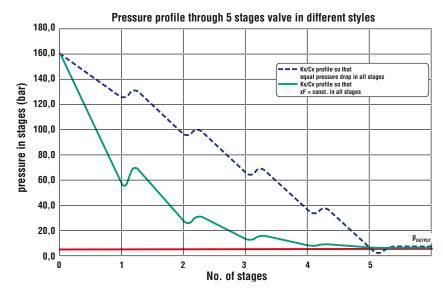
With Multi-Z you can now have an axial flow dirty severe service control valve tailor made to fit your exacting process requirements.



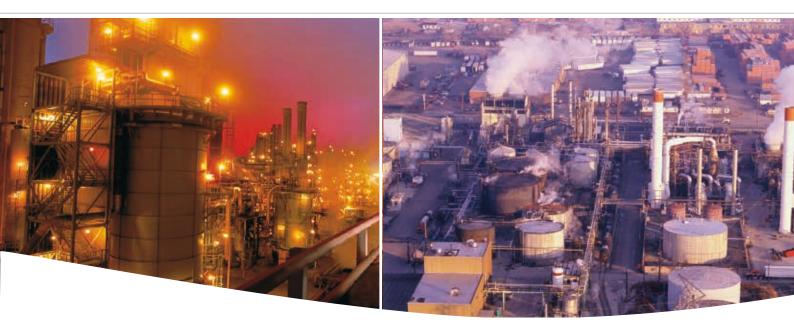
Anti Cavitation Mechanisms at Work

Performance of the trim is maximized by balancing the cavitation across the stages. Process sigma is the same for each stage which results in more effective cavitation protection.

- Mutual impingement
- Sudden contraction
- Sudden expansion
- Turbulent mixing



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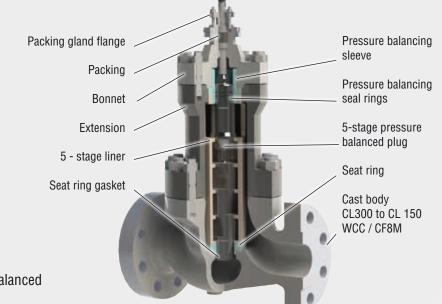


Technical Data

| Size | 1 - 8" , other sizes upon request |
|----------------|---|
| Pressure Class | Class 300 - 2500 |
| Materials | Carbon Steel, Stainless Steel, other Alloys |
| Style | Globe and Angle |
| Trim | Axial Multi-Stage trim 3 to 6 stages |

Features and Benefits

- Eliminates cavitation
- Reduces sound level
- Tolerates solids in the process
- High rangeability
- Custom characteristics possible
- Seat is protected from high velocity, cavitation or flashing
- Variety of actuators:
 - Pneumatic cylinder
 - Pneumatic diaphragm
 - Electric
 - Hydraulic
- Available as unbalanced or pressure balanced
- Flow under seat







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