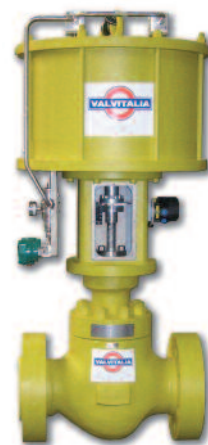


LTG4 Series Control Valves

Globe straight-way **LTG4 Series Control Valves** have the same body, bonnet and seat ring of LTG3 series. The main difference is the design of the plug which is **balanced type and contoured shaped** for the throttling function. The cage, provided with large windows, clamps the seat ring against the body and acts also as the integral guide of the plug. The trim is of quick change type for an easy maintenance. These valves combine the benefits of plug balancing and **quick-change feature** of LTG3 series with the simple and versatile construction of contoured plug which allows a wide selection of materials, coatings and flow characteristics. Also **dirty, abrasive and very corrosive fluids** can be successfully handled without the inconvenient sometime occurring in conventional throttling cage valves. The limitations about low-noise and anticavitation characteristics are compensated by the free-passage shape of the plug with **reduced risk of local erosion and clogging**.



LTG4 10" ANSI 2500

Technical characteristics:

Body:

- Flanged, butt-welded
- Cast std construction; also wrought or bar construction for 2" and 3" sizes
- Face-to-face dimensions as per IEC 60534-3-1 long series
- Sizes: 2", 3", 4", 6", 8", 10", 12", ratings up to ANSI 150, 300, 600, 900, 1500, 2500
- Materials: Carbon, Cr-Mo and Stainless Steels
- materials: carbon, Cr-Mo and AISI 316 stainless steel
- Flow direction: to open

Bonnet:

- Bolted joint to body
- Extended type either for high and low temperature applications as a standard feature
- Same materials as body

Trim:

- **Balanced** and fully guided plug
- Seal rings for **leakage classes IV and better**: metal, teflon, metal and graphite
- **Linear** and **equi%** up to 2" port included - **modified linear** for higher sizes
- Plug types:
 - contoured
 - flat disc for quick opening operation
 - soft seat
 - soft seat
 - cascade trim

Seat Ring:

- **Quick-change** and **free-expanding** type, precisely coupled with the cage to ensure a perfect plug alignment

Leakage Class:

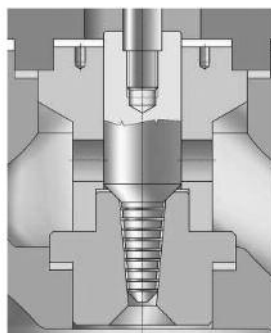
- Classes III, IV, IV S1 and V according to IEC 60534-4
- Class VI is also available with **soft-seat plug**

Actuators:

- **Piston** or **pneumatic diaphragm** spring return
- **Electric** actuators on request

Cascade trim

Represents one of the most valid systems to reduce erosion and cavitation and it finds wide applications in small size valves, whether other "multistep" solutions can not be used. The pressure drop is equally splitted through a lot of labyrinth paths specially machined inside the trim itself. Control valves equipped with "cascade trim" can operate under very high pressure drops with a longer working life compared to standard single stage trims. Two separate sealing surfaces can be provided: by this way the first seal, between seat and cage, acts as a sacrifice element.



LTG4 - cascade trim

Item	Part name
1	BODY
2	BONNET
3	STEM
4	STUD
5	NUT
6	BODY GASKET
7	PIN
8	CAGE
9	PLUG
10	SEAT RING
11	SEAT GASKET
13	PACKING FLANGE
14	PACKING STUD
15	PACKING NUT
16	PACKING FOLLOWER
25	PACKING BOX
30	SEAL RING

