## ENERGYNEE

### LTG1 and LTG2 Control Valves

Globe straight-way, single seat LTG1 and LTG2 series are very versatile control valves of general use for any applications under moderate p/T service conditions. LTG1 is the standard design with screwed seat ring while LTG2 is the corresponding quick-change version with the same flow coefficients and pressure differentials capability.

Due to their simple construction and to their large range of available materials these valves are suitable for a wide range of applications, such asr corrosive, dirty, sticking and slightly abrasive fluids. Angle-body LTA special design is also available with the same trims of LTG series.

### Main advantages:

- Excellent plug stability provided by heavy top guiding design
- Interchangeable low noise and anticavitation trim either for std or quick-change design
- Tight shut-off class V and VI also available
- Wide flow range capability is allowed by a great number of reduced capacity trims



LTG2 ANSI 300 Diaphgram Actuator

#### **Technical characteristics:**

**Body:** 

- Sizes: 3/4", 1", 1"1/2, 2", 3", 4", 6"
- Ratings: up to ANSI 600 /PN100
- Flanged, butt-welded, SW, and threaded
- Cast construction, also wrought or by bar for smaller dimensions
- Face-to-face dimensions as per IEC 60534 –3-1
- materials: carbon, Cr-Mo and AISI 316 stainless steel
- Flow direction: to open.
  - to close for some flashing applications
- Materials: Carbon, Cr-Mo and Stainless Steels

**Bonnet:** 

- Bolted to body
- Extended for high and low temperatures
- Bellows seal
- Special design for cryogenic applications
- Same materials as body

Trim:

- Top guided plug both in LTG1 and LTG2 constructions
- Linear, modified linear and Eq% flow characteristics
- Plug types: contoured
  - flat disc for quick opening operation
  - skirted and drilled BRD design (linear characteristic) for special services
  - soft seat only for contoured and flat disc

**Packing:** 

- Adjustable by nuts and follower
- Seal rings: reinforced braided teflon or pure graphite split-rings
- Bellows seal

Rangeability:

Cv<sub>max</sub>/Cv<sub>min</sub> better than 50:1 for 1" port and over

Cage (LTG2 only):

- Seat ring clamped into the body by the cage for quick-change feature
- Large windows of cage do not affect the inherent flow characteristic (including max Cv) of LTG1 corresponding trims

# DS CONTROL



### **Seat Ring:**

• Threaded in LTG1 model and clamped-in in LTG2 model

### Leakage Class (IEC 60534-4):

Standard: class IVOptional: class V and VI

#### **Actuators:**

- Pneumatic diaphragm or Piston type
- Electric and Electro-Hydraulic actuators

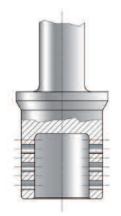
### LTA design

Globe types LTG1 and LTG2 are also available with **angle body**. In this case they are designated as **LTA1** and **LTA2 Control Valves**. LTA series are special engineered designs. The advantages provided by LTA series are the following:

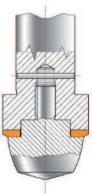
- 1 Different dimensions for valve inlet and outlet are available
- 2 Inlet and outlet ratings can also be different
- 3 Centre-to-face dimensions consistent with IEC standard when the connections have the same dimensions
- 4 Increased Cv values in comparison with LTG1 and LTG2 standard body style due to less pressure drop of angle path
- 5 Trims, characteristics, material and actuators are the same of standard LTG series



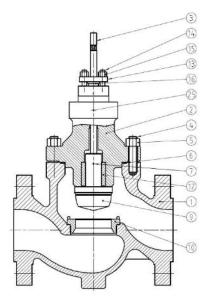
Standard contoured plug



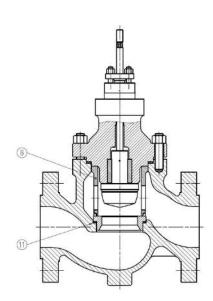
BRD trim



Soft seated plug



LTG1 Std contoured plug



LTG2 Std contoured plug



LTG1 ANSI 600 Electric Actuator



LTA Control Valve

Pos.	Part Name
1	BODY
2	BONNET
3	STEM
4	STUD
5	NUT
6	BODY GASKET
7	PIN
8	CAGE (LTG2 only)
9	PLUG
10	SEAT
11	GASKET (LTG2 only)
12	GUIDE BUSHING
13	PACKING FLANGE
14	PACKING STUD
15	PACKING NUT
16	PACKING FOLLOWER
25	PACKING BOX