

# *Control Valves - Globe-type*



**L&T Valves**

Larsen & Toubro manufactures a wide range of globe-type control valves for the power and hydrocarbon industries. The range comprises valves in straight pattern, angle and three-way body configurations, in ASME classes from 150 to 2500, in sizes up to 24" (600 mm).

L&T Control Valves are offered in a variety of materials, with actuation options and accessories to suit customer requirements.

### Compliance Standards

Parameter		Standard
Design	Pressure Temperature Rating	ASME B16.34
	Leakage Class	ASME/ FCI 70-2 and IEC 60534-4
	Hydrodynamic Noise	IEC 60534-8-4
	Aerodynamic Noise	IEC 60534-8-3
Ends	Face-to-face/ End-to-end Dimensions	ASME B16.10
	End Flange Dimensions	ASME B16.5
	Butt-weld End Dimensions	ASME B16.25
Testing	Hydrotesting	ISA S75.19
	Cv Testing	ISA-75.02.01

### Materials of Construction

Body/ Bonnet	Trim
A216 Gr. WCB /WCC/ A105	SS 410/ SS 410 + HF
A352 Gr. LCB /LCC/ A350 Gr. LF2	SS 420
A217 Gr. WC6/ A182 Gr. F11 Cl. 2	SS 422
A217 Gr. WC9/ A182 Gr. F22 Cl. 3	SS 316 + HF
A217 Gr. C12A/ A182 Gr. F91	SS 316L + HF
A351 Gr. CF8/ A182 Gr. F304	17-4 PH
A351 Gr. CF8M/ A182 Gr. F316	F91 + HF
A351 Gr. CF3/ A182 Gr. F304L	
A351 Gr. CF3M/ A182 Gr. F316L	

\*HF - Hard-Faced with Stellite 6 or equivalent

### Seat & Trim Options:

- Seat Type - Quick Change (default)
- Optional Seat Type - Welded Seat and Threaded Seat
- Plug Options - Balanced and Unbalanced
- Leakage Class - Up to Class VI
- Trim Types - Contoured, V-Port, Cage and Multi-Cage
- Trim Characteristics - Linear, Equal Percentage and Quick Opening

### Actuator Options:

- Pneumatic - Diaphragm
- Pneumatic - Piston
- Hydraulic
- Electrical



## Product Range:



### Valves for General Service

Size: 1" (25 mm) - 24" (600 mm)  
 Class: 150 - 2500  
 Trim type: Contoured & V Port  
 Plug options: Balanced & Unbalanced  
 Flow direction: Open & Close

#### Applications:

- Modulating and On-Off
- Slurry and Clean service



### Severe Service Valves

Size: 1" (25 mm) - 24" (600 mm)  
 Class: 150 - 2500  
 Trim type: Multi-cage  
 Plug options: Balanced & Unbalanced  
 Flow direction: Open & Close

#### Applications:

- Modulating
- High Pressure Drop
- Noise Attenuation
- Anti-cavitation
- Clean Service



### Low-Flow Applications

Size: ½" (12 mm) - 1" (25 mm)  
 Class: 150 - 2500  
 Trim type: Contoured  
 Plug options: Unbalanced  
 Flow direction: Open

#### Applications:

- Modulating
- Low Flow Rate
- High Viscosity Fluids
- Clean Service

### Special Products

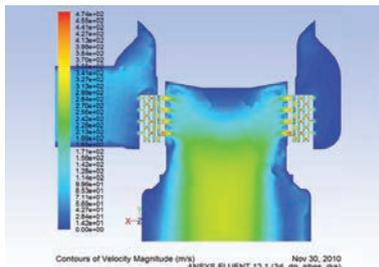
- Three-way Valve
- Drain Valve

## L&T Control Valves

Larsen & Toubro is a world-leader in flow-control solutions. Backed by a 50-year heritage of excellence, L&T manufactures and markets a wide variety of industrial valves that find application in key sectors of the economy such as oil & gas and power.

L&T Control Valves are designed using state-of-the-art 3D design, simulation and analysis software. Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) are extensively used. Prototypes are tested - both in-house and at advanced flow-control research establishments - to ensure that the valves deliver consistently high performance.

L&T's extensive manufacturing and quality assurance infrastructure ensure that world-class designs are transformed into high-performance products. Every phase of manufacture is governed by institutionalised safety, health and environmental standards.



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