



# Valves for the Sugar Industry

## L&T Valves

L&T Valves, trusted by the industry for 6 decades, offers innovative solutions that establish new benchmarks in plant performance and customer satisfaction. In sugar and allied industries, the products enhance reliability and performance, and reduce the total cost of ownership. L&T Valves Aftermarket provides service, spares and training support throughout the complete lifecycle of the valves.

To experience the L&T Valves Advantage, contact L&T Valves or our authorised distributors today.

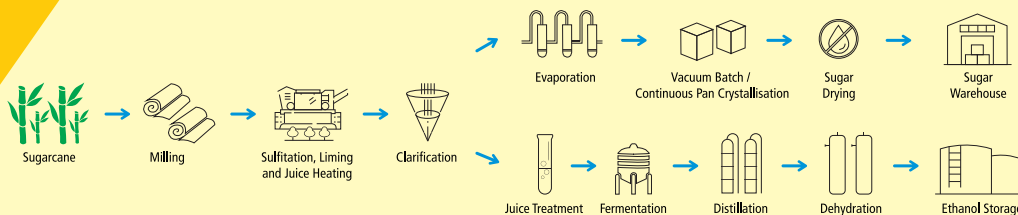
L&T Valves website and online store: [www.Lntvalves.com](http://www.Lntvalves.com)

## The L&T Valves Advantage

- ✓ **A Trusted Partner:** An enviable track record spanning 6 decades and over 20 million valves
- ✓ **Portfolio and Range:** Wide variety of valves, offering a solution for every need
- ✓ **Future-ready:** Next-generation technologies to provide unmatched safety and reliability
- ✓ **Maximum Productivity:** Global sales and aftermarket network for quick responses wherever you are
- ✓ **Manufacturing Footprint:** Facilities in USA, Saudi Arabia and India to meet your requirements
- ✓ **The support of Larsen & Toubro,** a USD 21 billion engineering and technology conglomerate



## Sugarcane to Sugar/ Ethanol Process



Product Matrix	Butterfly Valves (Elastomer-lined)	Butterfly Valves (Triple-offset)	Ball Valves (Soft - seated)*	Forged Steel Gate, Globe & Check Valves*	Cast Steel Gate, Globe & Check Valves*	Knife Gate Valves
Milling and Extraction	✓		✓	✓	✓	✓
Clarification & Filtration	✓					
Evaporation	✓	✓	✓	✓	✓	✓
Crystallisation	✓		✓	✓	✓	✓
Centrifuging / Sugar Drying	✓					
Molasses Heating	✓					✓
Juice Treatment	✓			✓	✓	
Fermentation	✓		✓			
Distillation	✓		✓			
Ethanol Storage	✓	✓	✓		✓	
Co-gen Plant		✓		✓	✓	
Utilities	✓		✓	✓	✓	

\*IBR certified valves available



### Butterfly Valves (Elastomer-lined)

**Size & Class:** 2" to 36" / PN 10, PN 16, PN 25, #150  
**End Connection:** Wafer, Lugged & Double Flanged  
**Body Material:** Cast Iron with integral EPDM / Black Nitrile-lined  
**Disc Material:** SG Iron (Nylon coated), CF8M (Edge polished)

#### Key Features

- Integrally moulded elastomer-lined
- Bubble-tight sealing
- Xylan coated shaft for low operating torque



### Forged Steel Gate, Globe & Check Valves

**Size & Class:** ½" to 1 ½" / #800, #1500  
**End Connection:** Socket Weld, Screwed, Butt Weld  
**Body Material:** A105 / F22 ; Trim 8, 5

#### Key Features

- Design comply to API 602 / ASME B16.34 with corrosion & wear resistance
- Fugitive emission qualified as per API 624
- Integral hardfaced body seat for Globe and Check Valves



### Ball Valves (Soft-seated)

**Size & Class:** ½" to 8" / #800, #150 - #600  
**End Connection:** Socket Weld, Screwed, Flanged  
**Body Material:** WCB / CF8M; Ball: CF8M

#### Key Features

- High integrity stem sealing ensures leak-free flow
- Mirror-finished solid stainless steel balls
- Seats with pressure relieving slots



### Knife Gate Valves

**Size & Class:** 2" to 54" / PN 10, #150  
**End Connection:** Wafer, Lugged & Double Flanged  
**Body Material:** Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel  
**Gate Material:** Duplex Stainless Steel

#### Key Features

- Heavy-duty knife edge cuts through solid sediments
- Customised gate surface coatings - hardfacing, nitriding, chrome-plating
- Metal & Soft seat - Easy to maintain at site



### Cast Steel Gate, Globe & Check Valves

**Size & Class:** 2" to 72" / #150 - #2500  
**End Connection:** Flanged, Butt Weld  
**Body Material:** Carbon Steel, Alloy Steel, Stainless Steel / Trim 8, Trim 5

#### Key Features

- Guided disc arrangement for all Globe Valves
- Internal hinge pin arrangement (Puncture-less body) for Check Valves
- Fugitive emission qualified as per API 624



### Butterfly Valves (Triple-offset)

**Size & Class:** 3" to 100" / #150 - #2500  
**End Connection:** Wafer, Lugged, Flanged, Butt Weld  
**Body Material:** Carbon Steel, Alloy Steel, Stainless Steel  
**Disc Material:** Carbon Steel, Stainless Steel

#### Key Features

- Triple Offset geometry minimises seat seal contact
- Body seat hardfaced with Stellite #21
- Replacable laminar seal

### Industry References

- Andhra Sugars
- Avadh Sugar & Energy
- Bajaj Hindustan Sugar
- Balrampur Chini Mills
- Bannari Amman Sugars
- Dhampur Sugar Mills
- Dwarikesh Sugar Industries
- EID Parry
- Madhucon Sugar and Power Industries
- Triveni Engineering & Industries
- Ugar Sugar Works



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Manufacturing facilities in USA, Saudi Arabia and India

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