



Flow-control Solutions for Defence



L&T Valves, a wholly-owned subsidiary of Larsen & Toubro, is a strategic partner in the nation's defence and aerospace programmes. In the last three decades, the company has developed an array of mission-critical flow-control solutions for projects of strategic importance. The continued successes in defence and aerospace domains bear witness to the company's capabilities in technology management, new product development, metallurgy and precision manufacture.



Ministry of Defence - Green Channel Status

In November 2019, L&T Valves became the first private enterprise in India to secure the coveted 'Green Channel Status' from the Directorate General Quality Assurance (DGQA), Ministry of Defence, Government of India.

The certification empowers L&T Valves to self-certify their supplies to the Defence Services.

Design

L&T Valves flow-control solutions are designed in a 3D environment for 'long design life'. Finite Element Analysis (FEA, Structural, Thermal and Shock) and Computational Fluid Dynamics (CFD) are employed to optimise the designs. Rigorous prototype development and functional qualification tests ensure that the designs deliver high performance in the harshest conditions.

L&T Valves has in-house state-of-the-art capabilities to carry out:

- Shock test
- Vibration test
- Flow test
- Helium leak test
- Endurance test

Over 50 varieties of valves developed for underwater platforms



Flow Test Lab

Manufacture

The products are manufactured in an access-controlled state-of-the-art manufacturing centre equipped with: CNC Machining Centres | CNC Horizontal Boring Machines | Special Purpose Machines | Specialised Welding Machines

The forming and welding of exotic metals pose complex challenges, and a dedicated team of metallurgists work closely with the production team to resolve it.

The flow-control solutions are assembled, tested and packed in a 10K Clean Room. The custom-designed protocol ensures that the product integrity is preserved during transit, handling and storage.



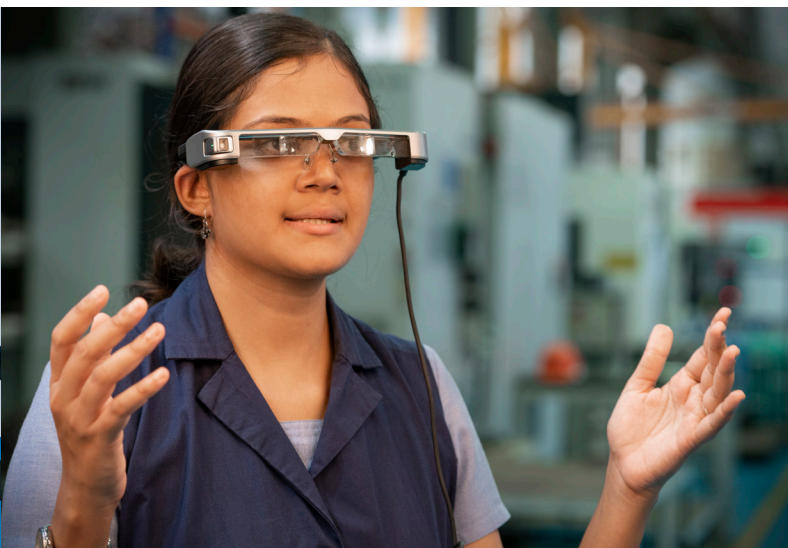
Digital Solutions

smARt.view

L&T Valves has pioneered a digital collaboration platform that leverages Augmented Reality (AR) technologies to virtually teleport customers to our manufacturing facilities - minimising the limitation of distance and time. The solution facilitates realtime plant tour and remote visual inspection.

ValvTrac

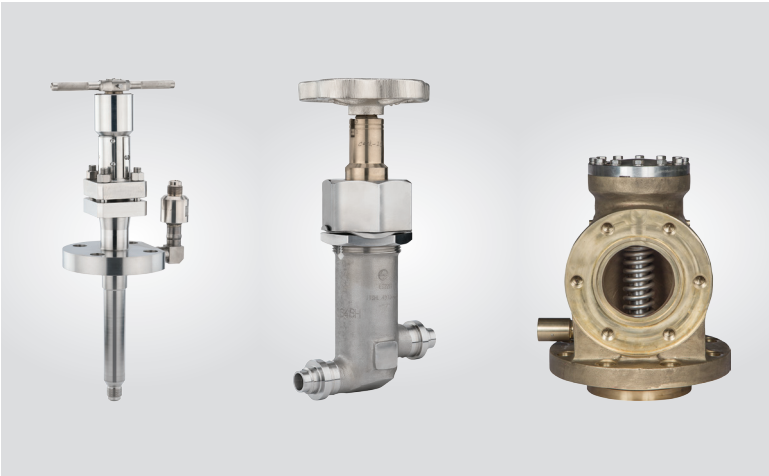
The revolutionary traceability solution provides information literally at your fingertips. The RFID tags and RFID reader link users to the information required to identify, install, operate and maintain valves - and is ideal for facilities with a large population of valves, and for valves installed in inaccessible locations.



Product Range

L&T Valves offer custom-engineered solutions for Defence and Aerospace as well as Oil & Gas, Power and allied industries.

- Valves for Underwater Platforms and Warships



- Valves for Aerospace Applications



- Gate, Globe & Check Valves
- Ball Valves
- Butterfly Valves
- Double Block and Bleed Plug Valves
- Control Valves
- Automation Solutions



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