

INNOVATIVE CUSTOMIZED SOLUTIONS



# LCV - CRYOGENIC BALL VALVE

## SUPPLYING AUTOMATION FOR CRYOGENICS

### APPLICATIONS

STORAGE, TRANSPORT AND PROCESSING FOR  
CRYOGENIC INDUSTRIAL GASES (LIN, LAR, LOX)

AUTO CHANGE OVER SYSTEMS

LNG STORAGE & DISTRIBUTION

CRYOGENIC PUMPING SYSTEMS

AIR SEPARATION UNITS (ASU)



[www.m-tech-gmbh.com](http://www.m-tech-gmbh.com)

# MADE IN GERMANY

## m-tech® BENEFITS



### USER FRIENDLY MAINTENANCE

Brass guide bush allows easy maintenance of packing



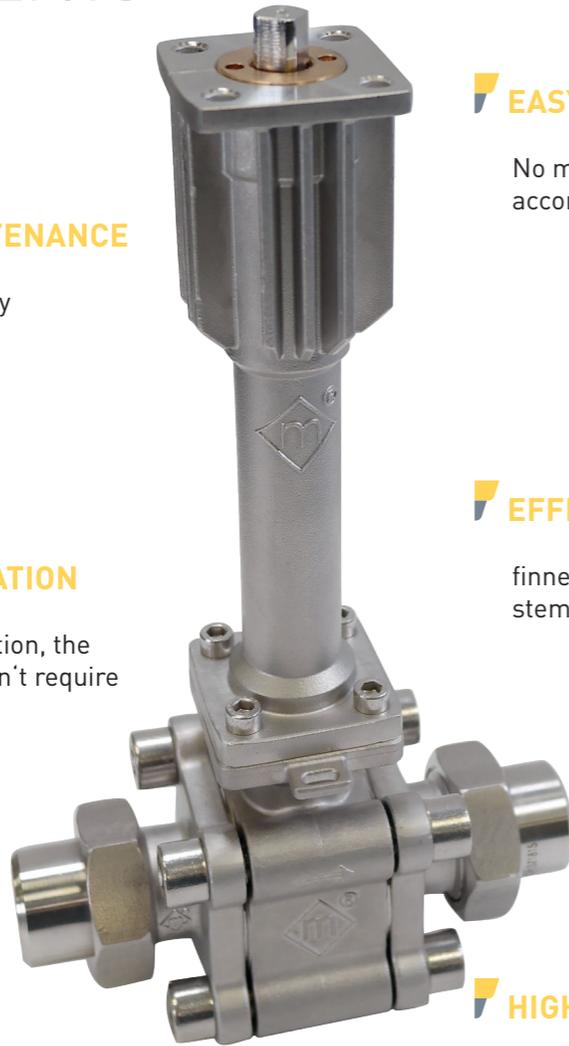
### EASY & SAFE INSTALLATION

Thanks pipe adapter connection, the installation of the valve doesn't require disassembly by welding on the pipework



### HIGHER FLEXIBILITY

Several end connections in different materials such brass & stainless steel



### EASY AND SAFE VALVE AUTOMATION

No mounting bracket required. Top flange according to ISO 5211



### EFFICIENT HEAT TRANSFER

finned bonnet design ensures reliable stem packing sealing.



### HIGHER PLANT AVAILABILITY

Quick replacement of the valve reducing the maintenance downtime due to pipe adapter connection.

# PRODUCT OVERVIEW

## LCV - CRYOGENIC BALL VALVE

### DN15 TO DN50 (1/2" - 2")



m-tech's ball valves are specially designed and manufactured to meet relevant cryogenic standards (DIN EN 1626, BS 6364). The valve are suitable for handling cryogenic liquefied gases such LIN, LAR, LOX and LNG.

### FEATURES

- Optimized design for on/off and control applications
- Blow-out proof stem design
- Live loaded stem packing
- Upstream relief hole in ball
- Valve cleaned, degreased and packaged for O<sub>2</sub> service
- ATEX Version for explosive atmosphere

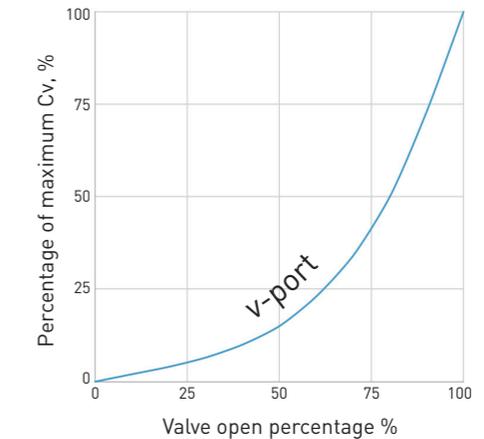


### TESTING

The LCV Series complies with DIN EN1626 and BS6364. m-tech has performed cryogenic tests according to these standards to ensure no internal and external leakage, low operating torques and reliable valve performance.

### CERTIFIED / TESTED

- BAM/CTE Approval
- ATEX certification (Zone 1&2)
- Tightness leakage rate A acc. to EN 12266 / API 598
- Cryogenic test acc. to DIN EN1626/ BS 6364



standard ball



60° v-port ball

### CONTROL VERSION

- LCV valves exhibit equal percentage flow characteristics, using a 60° v-port ball.
- m-tech provides basic / advanced calculation reports for control valve sizing on request using the CONVAL® software.



## INNOVATIVE CUSTOMIZED SOLUTIONS

### YOUR CONTACT

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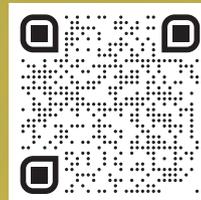
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m-tech<sup>®</sup>  
High Performance Valves  
ONLINE



#### LCV STANDARD CONFIGURATIONS

LCV automated with pneumatic actuator, pilot valve and position feedback 01

LCV automated with electric actuator (on/off, regulating, timer) 02

LCV manual 03

#### OTHER PRODUCTS OF HPV DIVISION

EBV automated with pneumatic actuator, positioner and air conditioning unit 04

EBV automated with electric actuator (on/off, regulating, timer) 05

EBV manual with gearbox 06



01



02



03



04



05



06