

INNOVATIVE CUSTOMIZED SOLUTIONS



MPG/HPG - HIGH PRESSURES VALVES

RELIABLE AND SAFE GAS FILLING

APPLICATIONS

- FLOW AND PRESSURE CONTROL
- CYLINDER AND BUNDLE FILLING
- GAS MIXING IN FULLY AUTOMATED SYSTEMS
- LINE STOP VALVES
- EQUIPMENT FOR O₂, H₂, INERT AND OTHER GASES

PI42-10B



www.m-tech-gmbh.com

MADE IN GERMANY

m-tech® BENEFITS



PRESSURE BALANCED DESIGNED

small actuator size,
reduced friction and wear



ZERO LEAKAGE

bubble tight in both flow directions
against max delta P



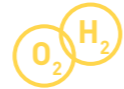
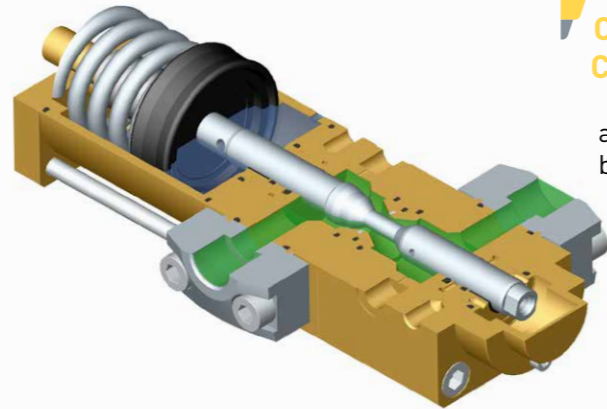
COMPACT INSTALLATION

avoid welding and reduce the need for
space by connecting valves on manifolds



SAFE VALVE AUTOMATION

quick installation of limit switches, pilot
valves and electro-pneumatic positioners



OXYGEN AND HYDROGEN COMPATIBLE

adiabatic shock tests carried out
by BAM and CTE



BI-DIRECTIONAL OPERATION

design allows the medium to
flow through in both directions



EASY UPGRADING

modular design allows later conversion
from manual to automatic



PRODUCT OVERVIEW

MPG/HPG - HIGH PRESSURE VALVES PN420/PN600



m-tech's high pressure valves are specially designed and manufactured for handling industrial, medical and specialty gases.

FEATURES

- Optimized design for on/off and control applications
- Connections available from Ø6mm to ¾" pipe in stainless steel, brass and monel
- Function manual, normally closed, normally open and proportional
- Valve cleaned, degreased and packaged for O₂ service
- Manifoldd solutions possible

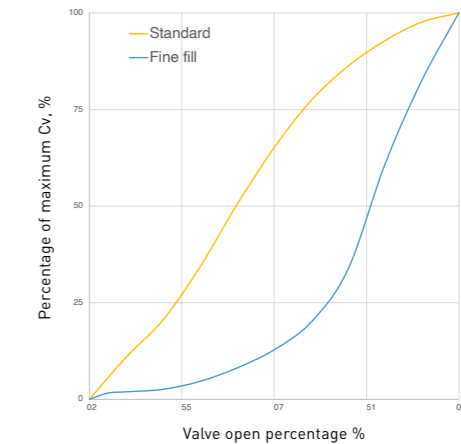


ASSEMBLY IN CLEANROOM

All our valves are designed for oxygen service. Suitable materials are used and the components of our valves are cleaned in an oxygen-friendly manner in a dedicated cleaning facility and then assembled in a special clean room, which meets the requirements of class ISO 7 according to DIN EN ISO 14644-1.

CERTIFIED / TESTED

- BAM/CTE Approval (O₂ Adiabatic shock test)
- ATEX certification (Zone 1&2)
- Safety Integrity Level (SIL2 at HFT=0 & SIL3 at HFT=1)
- H₂ endurance and leakage test acc. to ISO 10297
- Tightness leakage rate A EN 12266



CONTROL VALVES

Proportional valves are available in various materials and sizes with optimised flow characteristics. They can be paired with positioners or process controllers for an optimal performance in different processes and hazardous areas.



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YOUR CONTACT

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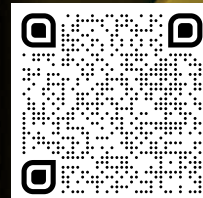
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m-tech®
Gas filling systems Valves
ONLINE



MPG/HPG STANDARD CONFIGURATIONS

MPG 03 HD/NC/NO/PR 01

MPG 08 HD 02

MPG 12 HD/NC/NO/PR 03

HPG 12 HD/NC/NO/PR 04



01

02

03

04