

VELAN



VALVES FOR
OXYGEN AND
CLEAN GAS
APPLICATIONS



COMPLIANCE TO THE LATEST INDUSTRY STANDARDS

Velan offers a full selection of gate, globe, check, ball, and butterfly valves to meet the latest EIGA and CGA standards including:

- > EIGA Doc 33 / CGA G-4.1
- > EIGA Doc 13 / CGA G-4.4
- > EIGA Doc 200 / CGA G-4.14

Velan. Quality that lasts.

VALVES FOR OXYGEN AND CLEAN GAS APPLICATIONS IN COMPLIANCE WITH THE LATEST HARMONIZED STANDARDS

Velan offers a selection of API 600/602/603/B16.34 gate, globe, and check valves along with metal-seated ball (MSBV) and triple offset valves (TOV) able to meet EIGA and CGA standards from full cryogenic to 200°C (400°F) as well as specialized high temperature oxygen applications above 200°C (400°F).



Velan cryogenic and standard temperature valves in compliance with EIGA and CGA standards.

Velan partnered with WHA International Inc. (WHA), an independent third-party company specializing in risk analysis in oxygen and hydrogen combustion to ensure conformance was met in the 3 areas required by the harmonized standard:

➤ **Design safety review**

Valves must undergo a rigorous design safety review to assess oxygen service compatibility for GOX and LOX service.

➤ **Cleaning process protocol**

Third-party testing is required to assess effectiveness of cleanliness procedures to eliminate the presence of contaminants and impurities in the valves.

➤ **Comprehensive training**

All personnel involved with processing oxygen cleaned valves are trained on the hazards of oxygen service, current design standards, and proper cleaning techniques.

SAFETY REVIEW FOR OXYGEN SERVICE

Qualifying products must undergo a rigorous design safety review to assess compatibility for oxygen service:



Engineering designs are audited for conformity to safety standards.



Material flammability is assessed based on composition, thicknesses, and operating conditions such as pressures, temperatures, and velocity.



Packing and gaskets must be rated for oxygen service.



An overall oxygen hazards and risk assessment is made to ensure that finished products are safe for oxygen service.

Contact us to find out how we can solve your process challenges