



Clamp Connector

Here are 12 reasons why M-LOK® is better.



Metalok360™ is a Canadian own and operated OEM of M-LOK® clamp connectors.

Tested and Proven all M-LOK® clamp connectors are compliant with the following and are fully interchangeable with other well-known brands available in the market.



ASME VIII-div.2 – appendix 4



NACE MR01-75 standard

Metalok360™ implements, for all its design, production and marketing cycles, procedures and is compliant with the requirements of the international ISO standard.

The quality assurance system for the manufacture of pressure vessels is compliant with the requirements of the European Directive 2014/68

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M-LOK[®] Connection Systems

M-LOK[®] Providing immediate savings in weight, space and installation, the unique M-LOK[®] connector outperforms flanges in many ways. The connector is specified as the preferred method of making difficult pipe connections in a wide range of diverse industries, applications and environments. M-LOK[®] has offered advantages in maintenance costs and improved performance.

Here are the 12 reasons why M-LOK[®] is better.

Leak-Free
Reliability



Weight
Savings



Space
Saving



External
Loads



Quick
Assembly



Cost
Savings



High Pressure/
Temperature



1 Smaller. Compared to conventional ANSI or ASME flanges, the M-LOK[®] connector is significantly smaller in diameter and has a shorter weld neck length.

3 Metal-to-metal sealing. The heart of the connector M-LOK[®] seal ring, which engages the inner hub surface in an interference fit and forms a self-energized seal. Internal pressure reinforces the seal even further. Our seals are reusable unlike RTJ and spiral wound gaskets.



5 Ease of installation. The clamp can be rotated a full 360° around the hub to orient the bolts, connections can be made up in tight spaces and components installed without regard for bolt hole alignment.

7 Maintenance simplicity. There are only 4 bolts on a M-LOK[®] clamp rather than the 8 to 24 on a conventional flange, you can make up and break down 3 to 8 M-LOK[®] connectors in the same time as one flanged connection.

9 M-LOK[®] Deliver shorter manufacturing lead times. M-LOK[®] allows you to meet your manufacturing, and installation target lead times.

2 Less Weight. The smaller size translates into weight as well as space reduction, for lightweight, compact, and economical systems with superior sealing integrity.

4 Toughness. In nearly all normal piping applications the M-LOK[®] connector is stronger than the pipe and most other components which might be connected. The M-LOK[®] connector goes to extremes:

Examples of M-LOK[®] Connectors in Extreme Service

Vibration:	80 to 2000 cycles per second at 6600 psi
Pressure:	Hard vacuum service to 60,000 psi
High Temperature:	Service experience to 1,700 °F (927 °C)
Low Temperature:	Routine liquefied gas service including, liquid hydrogen and nitrogen to -425 °F (-254 °C)
Thermal Shock	Routine service with temperature changes up to 300 °F per hour
Corrosion:	Liquid sodium service at 1,200 °F
Zero Leak Rate:	10 ⁻⁶ atm cc/s Helium

6 Low torque makeup. Torque required to make up a M-LOK[®] connector can be as low as 30% of that for a ring joint flange.

8 Low inventory requirements. One M-LOK[®] connector can be used for all piping of the same size, regardless of pressure. Spare parts inventory is significantly reduced.

10 Delivery simplicity. M-LOK[®] has logistic connections that allow for quick delivery.

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