

High-Pressure Quick Connect Couplings

Technical Reference Manual 1400/110/Global



Why Choose Our Quick Connect Couplings?

Our Quick Connect Couplings are engineered for high-pressure applications, ensuring exceptional durability, safety, and leak-free performance. Designed to meet and exceed industry standards, these couplings offer seamless compatibility with hydraulic and pneumatic systems. They serve as a superior alternative to leading brands. Additionally, they feature a fully serviceable design, allowing for easy maintenance and replacement of seals and components, extending their lifespan and reducing long-term costs.



Key Features

High-Pressure Rating

Up to 5000 PSI, designed to withstand extreme pressures and conditions.

Serviceability

Fully serviceable design allows for easy maintenance and replacement of seals and components, extending product lifespan. Quick rebuild in under 10 minutes.

Compatibility

Designed for seamless compatibility with existing leading market alternatives and industry-standard fittings.

Rugged & Durable Construction

Constructed from 316L high-grade stainless steel for superior corrosion resistance. Triple O-ring seal ensures leak-free operation.

Locking Mechanism

Twist-lock feature prevents accidental release.

Size Options & Customization

Offered in various standard sizes $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" (NPT, BSPP, SAE) and customizable options to meet specific application requirements.





Applications

Hydraulic Systems

Essential for heavy machinery and industrial applications.

CNG & Hydrogen Fueling

Enables safe and efficient gas transfer.

Oil & Gas Industry

Ideal for high-pressure fluid transfer.

High-Pressure Water Systems

Handles extreme water pressure applications.

Mining & Drilling Equipment

Ensures reliable fluid transfer in extreme conditions.

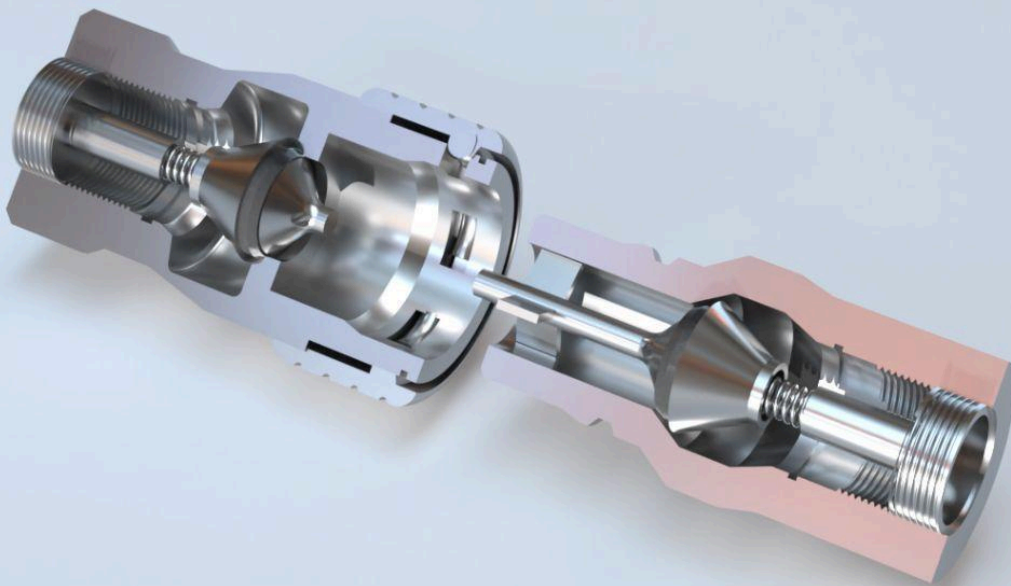
High-Pressure Testing Facilities

Enables secure connections in high-pressure testing environments.



Technical Specifications

Connection Type	Size	Min. Temp °C (°F)	Max. Temp °C (°F)	Min. Pressure PSI (BAR)	Max. Pressure PSI (BAR)	Flow Rate (GPM)	Cv (flow coefficient)
Male/Female Thread	¼"	-40 (-40)	85 (185)	150 (10.3)	5000 (345)	3.0	0.78
Male/Female Thread	⅜"	-40 (-40)	85 (185)	150 (10.3)	5000 (345)	7.5	1.85
Male/Female Thread	½"	-40 (-40)	85 (185)	150 (10.3)	5000 (345)	15.0	4.2
Male/Female Thread	¾"	-40 (-40)	85 (185)	150 (10.3)	5000 (345)	35.0	9.5
Male/Female Thread	1"	-40 (-40)	85 (185)	150 (10.3)	5000 (345)	65.0	18.3



Customization Options

We offer tailored solutions based on:

Specific pressure and flow requirements

Unique size preferences

Material selection for corrosive environments


At Machnium, we provide end-to-end, tailor-made solutions designed to meet the unique challenges of various industries. From initial concept to final manufacturing, we work closely with our clients to design, develop, and implement custom-engineered solutions that address their specific requirements. We handle everything from design, prototyping, and rigorous testing to full-scale production and ongoing support, ensuring that each solution meets the highest industry standards. Our expertise ensures seamless integration with existing systems while optimizing performance, durability, and serviceability.


Whether it's enhancing safety, improving efficiency, or meeting strict operational demands, our comprehensive approach delivers innovative, high-performance solutions built for the most demanding applications.

For detailed technical data and customization options, please contact us.

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