

COMPRESSION FITTINGS: INSTRUMENTATION

Stainless Steel - Brass - Monel



Design and Manufacture

Hy - Lok compression fittings have been designed and manufactured with great care to meet the specifications required for a wide range of applications in chemical, petro - chemical, oil refineries, power generation, shipbuilding, pulp and papers, micro - electronics, etc. Each Hy - Lok tube fitting consists of four parts; body, front ferrule, back ferrule, and nut. The two - ferrule design, front and back, compensates for any tolerance in tube O.D., wall thickness, material hardness and always ensures outstanding leak - tight connections. Hy - Lok compression fittings are manufactured under Hy - Lok Corporation's strict quality control program which enables Hy - Lok to obtain ASME Quality System Certificate and ISO 9001.

Materials

Hy - Lok tube fittings are available as standard in stainless steel, brass and monel.

Straight fittings are machined from cold finished bar stock and shaped bodies from forgings.

Typical material Specifications for fittings and tubing are listed in the opposite table.

For special applications contact our Sales Department.

Tube Selection and Handling

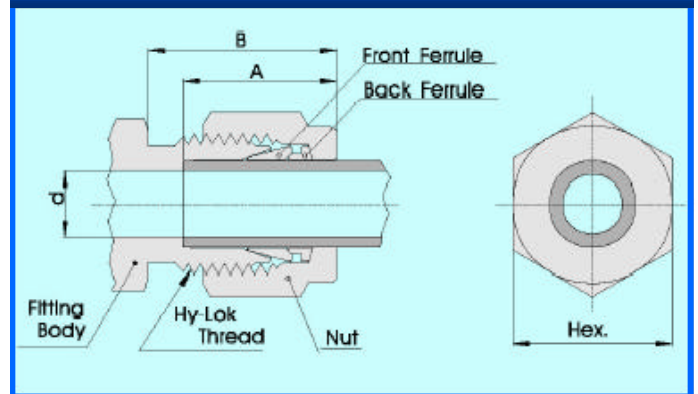
Hy - Lok fittings perform best when used with high quality tubing. Tubing should be considered a fitting component.

Tubing selection by relying only on ASTM or either equivalent specifications is not enough. Here are some points to be considered:

1. Materials and manufacturing method
2. Material hardness
3. Surface finish
4. Outside diameter and its tolerance
5. Wall thickness and its tolerance
6. Ovality
7. Concentricity
8. Packing and transportation

Tubings must be handled with great care during transportation and storage. To avoid damage to the tubing surface. Copper tubings must not be crushed or lose its circularity. If necessary, the tubing must be covered and tubing ends must be plugged to be kept from dirt.

Construction of Hy - Lok Fitting



Typical Material Specification

Fitting Material	Bar Stock	Forging	Tubing
S.Steel Type 316	ASTM A479	ASTM A182 F316	ASTM A269
	ASME SA479	ASME SA182 F316	ASTM A213
	ASTM A276	JIS G3214	ASTM A249
	Project 70 - ASTM A276 ASTM A479		ASME SA213
	JIS G4303		MIL - T - 8504 MIL - T - 8506
Brass	ASTM B16 Alloy 360	ASTM B124 Alloy 377	ASTM B68
	ASTM B453 Alloy 345	QQ - B626 Alloy 377	ASTM B75
	QQ - B626 Alloy 360		ASTM B88 ASME SB75
Monel 400*	QQ - N - 281 Alloy 405	QQ - N281 -Alloy 400	ASTM B165
	QQ - N - 286 Alloy K500	ASTM B 164	
	ASTM B164		

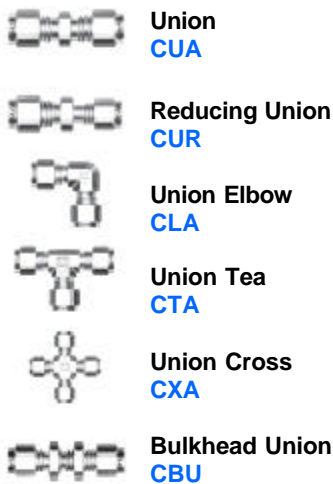


Hy - Lok

**Compression
Fittings**



Tube To Tube Union



Union
CUA

Reducing Union
CUR

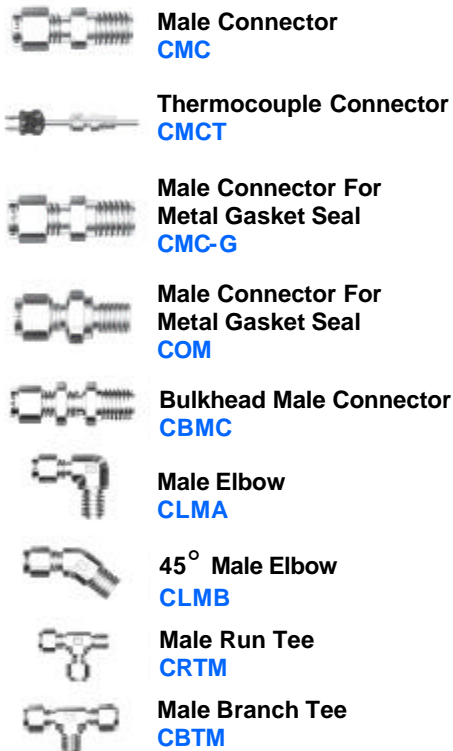
Union Elbow
CLA

Union Tea
CTA

Union Cross
CXA

Bulkhead Union
CBU

Tube To Male Pipe



Male Connector
CMC

Thermocouple Connector
CMCT

Male Connector For Metal Gasket Seal
CMC-G

Male Connector For Metal Gasket Seal
COM

Bulkhead Male Connector
CBMC

Male Elbow
CLMA

45° Male Elbow
CLMB

Male Run Tee
CRTM

Male Branch Tee
CBTM

Tube To Female Pipe



Female Connector
CFC

Gauge Connector
CGC

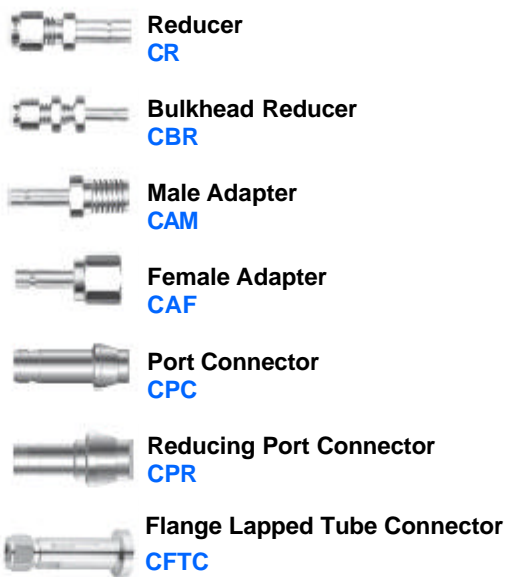
Bulkhead Female Connector
CBFC

Female Elbow
CLF

Female Run Tee
CRTF

Female Branch Tee
CBTF

Stub Tube Connector



Reducer
CR

Bulkhead Reducer
CBR

Male Adapter
CAM

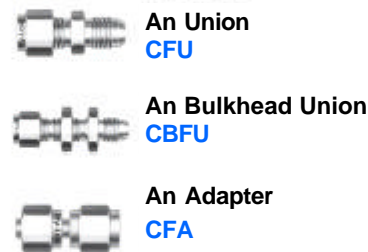
Female Adapter
CAF

Port Connector
CPC

Reducing Port Connector
CPR

Flange Lapped Tube Connector
CFTC

Tube To Tube

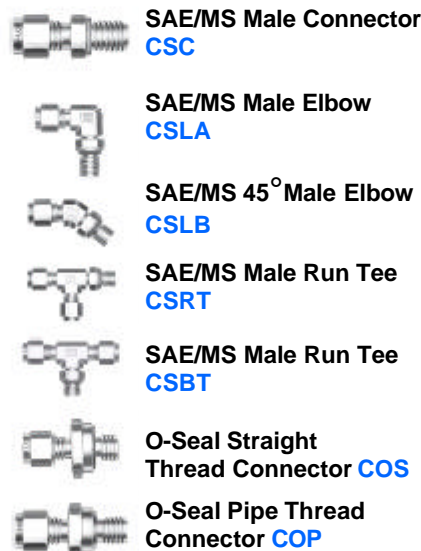


An Union
CFU

An Bulkhead Union
CBFU

An Adapter
CFA

Tube To SAE/MS O-Ring



SAE/MS Male Connector
CSC

SAE/MS Male Elbow
CSLA

SAE/MS 45° Male Elbow
CSLB

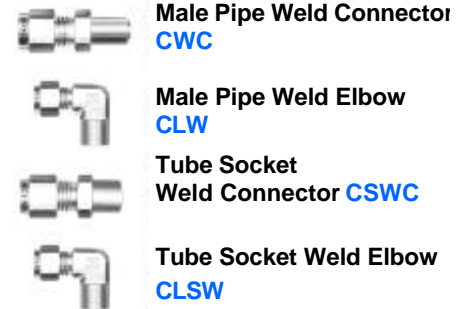
SAE/MS Male Run Tee
CSRT

SAE/MS Male Run Tee
CSBT

O-Seal Straight Thread Connector
COS

O-Seal Pipe Thread Connector
COP

Tube To Weld End



Male Pipe Weld Connector
CWC

Male Pipe Weld Elbow
CLW

Tube Socket Weld Connector
CSWC

Tube Socket Weld Elbow
CLSW

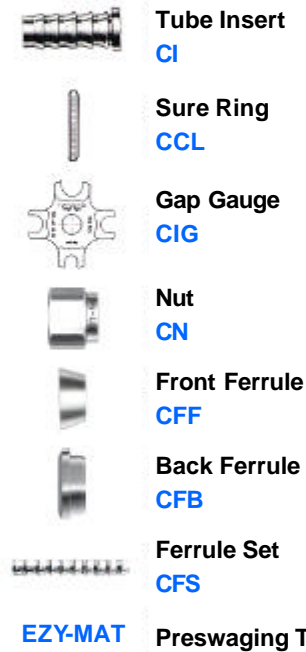
Plug and Cap



Plug
CPA

Cap
CCA

Spare Part



Tube Insert
CI

Sure Ring
CCL

Gap Gauge
CIG

Nut
CN

Front Ferrule
CFF

Back Ferrule
CFB

Ferrule Set
CFS

EZY-MAT Preswaging Tool

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- Heat Exchangers
- Steam Equipment
- Energy Audits
- CAD Drawing Facilities
- Others



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