



Instrumentation Tube Fittings I

- Size : Fractional (1/16"~2"), Metric (2mm~38mm)
- Materials : 316 Stainless Steel, Brass & Other Special Materials
- Pipe Thread : NPT, PT(ISO 7/1), Welded System and Other Special Threads

Tube to Male Pipe

PART	ITEM
Male Connector UMC	
Male Connector for Bonded Seal UMC-G	
Male Connector for Metal Gasket UMC-M	
Male Elbow UME	
45° Male Elbow UMVE	
Bulkhead Male Connector UBMC	
Thermocouple Male UTMC	
Male Run Tee UMRT	
Male Branch Tee UMBT	

Tube to Female Pipe

PART	ITEM
Female Connector UFC	
Gauge Connector UGC	
Female Elbow UFE	
Bulkhead Female Connector UBFC	
Female Run Tee UFRT	
Female Branch Tee UFBT	

Tube to Tube

PART	ITEM
Union UU	
Reducing Union URU	
Bulkhead Union UBU	
Union Elbow UEU	
Union Tee UUT	
Reducing Union Branch Tee URBT	
Reducing Union Run Tee URRT	
Union Cross UUC	

Tube to Welded Systems

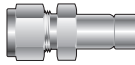
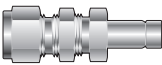
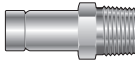
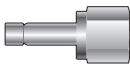


PART	ITEM
Male Pipe Weld Connector UPCW	
Male Pipe Weld Elbow UPEW	

Socket Weld Connector UPCSW	
Socket Weld Elbow UPESW	

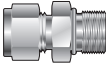



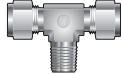
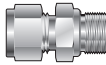
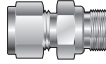


Instrumentation Tube Fittings II


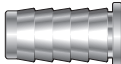





Stub Tube Connector

PART	ITEM
Reducer UR	
Bulkhead Reducer UBR	
Male Adapter UMA	
Female Adapter UFA	
Port Connector UPC	
Reducing Port Connector URPC	


Tube to SAE/O-Ring Seal

PART	ITEM
SAE Male Connector UMCS	
Positionable SAE Male Elbow UMES	
Positionable SAE 45° Male Elbow UMVES	
Positionable Male Run Tee UMRTS	
Positionable Male Branch Tee UMBTS	
O-Seal Straight Thread Connector UMOS	
O-Seal Pipe Thread Connector UMOP	

Components

PART	ITEM
Tube Cap UC	
Tube Insert UI	
Nut UN	
Tube Plug UP	
Front Ferrule UFF	
Back Ferrule UBF	
Vent Protector UVP	

Tube to AN(37° Flare) Tube

PART	ITEM
An Union UUA	

An Bulkhead Union UBUA	
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An Adapter UAA	
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Instrumentation Valves I

KINDS OF VALVES

Features

Needle Valves (SNVU, SNVF, SNVM, SNVW Series)

- Size : Fractional(1/8~1"), Metric (6mm~25mm)
- Direction : Straight Pattern, Angle Pattern
- Handle Type : PC Round, SS Bar
- End Connection : Uni-Lok Tube Fittings, Female, Male, Socket Weld
- Pipe Threads : NPT, BSPT(ISO 7/1)
- Pressure Rating : Up to 5000psi(340bar)
- Temperature Rating : -53°C(-65°F) to 232°C(450°F)
- High Pressure Needle Valves are available.

- Union Bonnet Needle Valves - 6,000psi**
- Bar Stock Needle Valves - 10,000psi**



Ball Valves (SBVU, SBVF, SBCVU, SBCVF Series)

- Size : Fractional(1/4~3/4"), Metric (6mm~20mm)
- End Connection : Uni-Lok Tube Fittings, Female
- Pipe Threads : NPT, BSPT(ISO 7/1)
- Pressure Rating : Up to 3000psi(206bar)
- Temperature Rating : 10°C(50°F) to 65°C(150°F)
- Direction : 2, 3 Way

- Forged High Pressure Ball Valve - 6,000psi**



Hex Ball Valves (SHBVU, SHBVF Series)

- Size : Fractional(1/4~1"), Metric (6mm~25mm)
- End Connection : Uni-Lok Tube Fittings, Female
- Pipe Threads : NPT, BSPT(ISO 7/1)
- Pressure Rating : Up to 1000psi(69bar)
- Handle Type : Lever, Butterfly

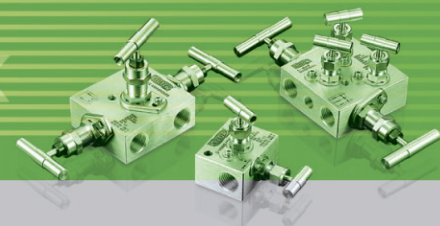


Check Valves (SCVU, SCVF, SCVM Series)

- Size : Fractional(1/4~1"), Metric (6mm~25mm)
- End Connection : Uni-Lok Tube Fittings, Female, Male
- Pipe Threads : NPT, BSPT(ISO 7/1)
- Pressure Rating : Up to 3000psi(206bar)
- Temperature Rating : -20°C(-4°F) to 190°C(374°F)
- Cracking Pressure : 1/3, 1, 3, 10, 25
- High Pressure (6,000psi) & Adjustable Check Valves are available.

- High Pressure Compact Check Valves - 6,000psi**
- Adjustable Check Valves**





Instrumentation Valves II

KINDS OF VALVES	Features
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Manifold Valves(2, 3 & 5VMNT Series)

Pipe Threads : NPT
 Pressure Rating : Up to 6000psi(410bar)
 Temperature Rating : 648°C(1200°F) with Grafoil packing
 End Connection : Female NPT, Flanged
 Mounting Type : Direct, Remote



Gauge Root Valves(SGV, SGRV, SGRV2 Series)

Pressure Rating : Up to 6000psi(410bar)
 Temperature Rating : -53°C(-65°F) up to 523°C(973°F) with Grafoil packing
 End Connection : Female, Male



Bellows Valves

316L (Single Vacuum Melting)/Electro Polished Body
 Precision/Electro Polished Metal Bellows, 100% Helium Leak Test
 Maximum Working Pressure : Up to 500psi(35bar)
 Temperature Rating : Up to 93°C(200°F)
 Size : 1/4"~1/2"
 End Connection : Face Seal, Tube Butt Weld, Uni-Lok



Diaphragm Valves

316VIM/VAR/Electro Polished/Compact Size Body
 Elgiloy Material/Electro Polished Diaphragm
 Manual & Pneumatic Operated, 100% Helium Leak Test
 Size : 1/4"~1/2"
 End Connection : Face Seal, Tube Butt Weld, Uni-Lok



Filters (SFI, SFT Series)

Size : Fractional(1/4~1/2"), Metric (6mm~12mm)
 End Connection : Uni-Lok Tube Fittings, Female, Male
 Pipe Threads : NPT, BSPT(ISO 7/1)
 Pressure Rating : Up to 3000psi(206bar)
 Temperature Rating : -28°C(-20°F) to 482°C(900°F)
 Micron Filtering Range : 0.5, 2, 7, 15, 60, 90





Pipe Fittings

- Size : Fractional (1/8"~2")
- Materials : 316 Stainless Steel, Brass & other Special materials
- Pipe Thread : NPT, PT(ISO 7/1), Welded System and other special threads

Male Pipe to Male Pipe

PART	ITEM
Close Nipple PCN	
Hex Nipple PHN	
Hex Long Nipple PHLN	
Hex Reducing Nipple PHRN	
Long Nipple PLN	
Male Elbow PME	
Male Tee PMT	

Female Pipe to Male Pipe

PART	ITEM
Adapter PA	
Reducing Adapter PRA	
Reducing Bushing PRB	
Street Elbow PSE	
Street Tee PST	
Branch Tee PBT	

Female Pipe to Female Pipe

PART	ITEM
Coupling PC	
Reducing Coupling PRC	
Female Elbow PFE	
Female Tee PFT	
Union Ball Joints PBJ	

Components

PART	ITEM
Pipe Cap PCP	
Pipe Plug PPG	

Female Pipe to Female Pipe

PART	ITEM
Coupling S.W Type PCW	
Reducing Coupling S.W Type PRCW	
Special Coupling PSC	

Seamless Tubes AP / BA / EP

- OD Size : Fractional (1/8"~1"), Metric(3mm~25mm)
- Wall Thickness : 0.028"(0.71mm)~0.085"(2.11mm)
- Materials : ASTM A213/A269 TP316/TP316L
- Polishing Level : AP/BA/EP
- Others : Welded Tubes & Roll Tubes are available

