

**Geeral  
Information -  
Tube Fitting**

**Example 1 - Tube to Pipe ends**

The part number below shows male connector, stainless steel type 316, tube O.D 1/4" x 1/4" Male NPT

4	MC	4
1	2	3

1. Tube O.D.: see tube O.D. designator
2. Name of fitting: see fitting type designator
3. Pipe thread end: see pipe thread designator

**Example 2 - Tube to Tube ends**

Sync-Lok Union tube O.D. 1/4", material SS316

4	U
1	2

**Material Designator**

Material	Designator
316 Stainless Steel	No designation
Brass	B
Carbon Steel	CS
Monel	MO

**Thread Specifications**

Pipe Thread	Relevant Standards
NPT	ASME B1.20.1, MIL-P-7105B
ISO/BSP (parallel)	ISO 228, BS 2779, JIS B 0202
ISO/BSP (tapered)	ISO 7, BS21, JIS B 0203
ISO/BSP (gauge) (Based on DIN 16288-1987)	ISO 228, BS 2779
Unified (SAE)	ASME B 1.1

**Tube O.D. Designator**

Tube O.D. (inch)	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
Identifier	1	2	3	4	5	6	8	10	12	14	16
Tube O.D. (metric)	2mm	3mm	4mm	6mm	8mm	10mm	12mm	16mm	20mm	22mm	25mm
Identifier	2MM	3MM	4MM	6MM	8MM	10MM	12MM	16MM	20MM	22MM	25MM

**Pipe Thread Size Designator**

Pipe Size	1/16	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Identifier	1	2	3	4	5	6	8	10	12	14	16

**Fitting Designators**

Identifier	Description
MC	Male Connector
MCBT	Male Bore Through Connector
MBH	Male Bulkhead Connector
ME	Male Elbow
LME	Male Elbow 45o
TMT	Male Run Tee
TTM	Male Branch Tee
CF	Female Connector
FBH	Female Bulkhead Connector
FE	Female Elbow
TFT	Female Run Tee
TTF	Female Branch Tee
U	Union
RU	Reducing Union
BHU	Bulkhead Union
ELU	Union Elbow
TEE	Union Tee
UC	Union Cross
RED	Reducer
BHR	Bulkhead Reducer
ATPM	Male Adapter
ATPF	Female Adapter
PC	Port Connector
RPC	Reducing Port Connector
MPWC	Male Pipe Weld Connector
MPWE	Male Pipe Weld Elbow
TSWC	Tube Socket Weld Connector
TSWE	Tube Socket Weld Elbow
BP	Tube Plug
BE	Tube Cap
N	Nut
FF	Front Ferrule
FR	Rear Ferrule