

Coale® Brass SAE 45° Flared Tube Fittings may be used with copper, brass, aluminum, steel and plastic tube provided an acceptable flare can be generated with the material. Vacuum to pressures of 346 Bar (5,000 Psi) can be handled dependent upon size, material and conditions. Using a 4 : 1 Safety Factor the following general rule is used :

- **210 Bar** for 1/8", 3/16", 1/4", 5/16" (R-410a), and 1/2" (R-410a) Female SAE Flare;
- **140 Bar** for 5/16", 3/8", 7/16", 1/2", 5/8" (R-410a), and 3/4" (R-410a) Female SAE Flare;
- **105 Bar** for 5/8", 3/4", 7/8", and 1" Female SAE Flare.

Long nuts are recommended when vibration is a factor. Tubing should be double flared in extreme applications to minimize flare thinning on over-tightening.

Excellent pull out-make and break-good vibration resistance (improved by using long or strong nuts) low cost easy assembly and wide selection are features of this style fitting.

Fittings listed generally comply with SAE, ASA, ACME, ASME, MS, EN378-2, 97/23/CE, 2002/95/EC Standard. However when design makes dimensions critical please contact us for samples and/or prints for testing and evaluation. Tube size listed are O.D. (Outside Diameter). To determine nominal (water tube) size, subtract 1/8" (i.e. 5/8" O.D. Outside Diameter = 1/2" nominal). Pipe sizes listed are standard nominal pipe size and threads are to DTPS Dryseal Taper Pipe Standards.

Coale will provide flare fitting to SAE Standard J513 whenever possible. In some cases, slight deviations will occur when full compliance fittings are not available.

ASSEMBLY INSTRUCTIONS

1. Cut tube square and remove cutoff burr;
2. Slide nut on tube, threaded end facing end of tube;
3. Flare tube following flaring tool manufacturers instructions (check flare quality);
4. Thread nut on to fitting body "handtight";
5. With proper wrench tighten to a solid feel.

TORQUE (Lbs./ft. - N·m) for SAE Flare Fittings

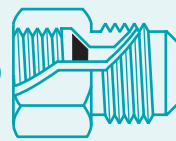
1/4" = 8,0 ÷ 10,0 Lbs./ft. - 10,88 ÷ 13,60 N·m
 3/8" = 15,0 ÷ 25,0 Lbs./ft. - 20,40 ÷ 34,00 N·m
 1/2" = 25,0 ÷ 35,0 Lbs./ft. - 34,00 ÷ 47,60 N·m
 5/8" = 40,0 ÷ 55,0 Lbs./ft. - 54,40 ÷ 74,80 N·m

CAUTION : Over-tightening and dirt can damage fittings and/or tube causing leaks. Special adjustable Torque Wrench Model TW 46810 permit tightening to the exact torque required for best performance, economy and safety.

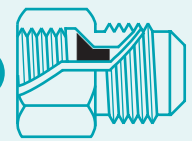
NOTE : Lubrication of flare faces and threads is recommended when practical (use NYLOG or Leak Lock®).

THREAD SIZE of TUBE ENDS (O.D. Outside Diameter - SAE Flare / UNF)				
Ø 1/8"	Ø 3/16"	Ø 1/4"	Ø 5/16"	Ø 3/8"
5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	5/8" - 18
Ø 7/16"	Ø 1/2"	Ø 5/8"	Ø 3/4"	Ø 7/8"
11/16" - 16	3/4" - 16	7/8" - 14	1-1/16" - 14	1-1/4" - 12

A



A



Heavy duty tube fittings generally conform to ARI, SAE, EN378-2, 97/23/CE, 2002/95/EC Standards for AC&R Air Conditioning and Refrigeration Service. Long dryseal pipe threads minimize leakage and provide more clearance for tightening flare nuts. Shapes, elbows, tees... are made from brass forgings to maximize strength and eliminate cracks. Copper seal gaskets (B2 or B3 STEK Series) furnished with all Female SAE Flares.

COPPER FLARE BONNETS / GASKETS / LONG TAN GASKETS

B1 Copper Flare Bonnets are used in order to protect from refrigerant or nitrogen charge leaks the ports connection of Refrigeration Equipments, Condensing Units, Fan-coils, Condensers, Evaporators...

B2 Copper Flare Gaskets are used in all brass to brass connections.

B3 Copper Flare Gaskets with Long Tan remain in perfect position even in horizontal connections or vertical towards down connections. Also used in STEK high leak proof fittings, SFF Self Flare Fittings, Adapters, Connectors...



B1- 4



B2- 4



B3- 4

Model	Description
B1- 3	Copper Flare Bonnet for Ø 3/16" O.D. tubing. Replace after every application.
B1- 4	Ø 1/4" O.D. tubing.
B1- 5	Ø 5/16" O.D. tubing.
B1- 6	Ø 3/8" O.D. tubing.
B1- 8	Ø 1/2" O.D. tubing.
B1-10	Ø 5/8" O.D. tubing.
B1-12	Ø 3/4" O.D. tubing.
B1-14	Ø 7/8" O.D. tubing.
B2- 3	Copper Flare Gasket for 3/16" Female SAE Flare. Replace after every application.
B2- 4	1/4" Female SAE Flare.
B2- 5	5/16" Female SAE Flare.
B2- 6	3/8" Female SAE Flare.
B2- 8	1/2" Female SAE Flare.
B2-10	5/8" Female SAE Flare.
B2-12	3/4" Female SAE Flare.
B2-14	7/8" Female SAE Flare.
B3- 4	Copper Flare Gasket with Long Tan for 1/4" SAE Flare. Replace after every application.
B3- 5	5/16" Female SAE Flare.
B3- 6	3/8" Female SAE Flare.
B3- 8	1/2" Female SAE Flare.
B3-10	5/8" Female SAE Flare.
B3-12	3/4" Female SAE Flare.
B3-14	7/8" Female SAE Flare.

Components

SAE 45° - BRASS FLARED TUBE FITTINGS



CROSS - (4) Male SAE Flare



C1- 4

Model	Description
C1- 4	Cross (4) x 1/4" Male SAE Flare.
C1- 6	(4) x 3/8" Male SAE Flare.

Male SAE Flare x Male NPT National Pipe Thread ELL



E1- 4A

Model	Description
E1- 2A	Ell 1/8" Male SAE Flare x 1/8" Male NPT N. Pipe Thread
E1- 3A	3/16" M. SAE x 1/8" M. NPT.
E1- 4A	1/4" M. SAE x 1/8" M. NPT.
E1- 4B	1/4" M. SAE x 1/4" M. NPT.
E1- 4C	1/4" M. SAE x 3/8" M. NPT.
E1- 5A	5/16" M. SAE x 1/8" M. NPT.
E1- 5B	5/16" M. SAE x 1/4" M. NPT.
E1- 6A	3/8" M. SAE x 1/8" M. NPT.
E1- 6B	3/8" M. SAE x 1/4" M. NPT.
E1- 6C	3/8" M. SAE x 3/8" M. NPT.
E1- 6D	3/8" M. SAE x 1/2" M. NPT.
E1- 8B	1/2" M. SAE x 1/4" M. NPT.
E1- 8C	1/2" M. SAE x 3/8" M. NPT.
E1- 8D	1/2" M. SAE x 1/2" M. NPT.
E1- 8E	1/2" M. SAE x 3/4" M. NPT.
E1-10C	5/8" M. SAE x 3/8" M. NPT.
E1-10D	5/8" M. SAE x 1/2" M. NPT.
E1-10E	5/8" M. SAE x 3/4" M. NPT.
E1-12D	3/4" M. SAE x 1/2" M. NPT.
E1-12E	3/4" M. SAE x 3/4" M. NPT.

Male SAE Flare x Male SAE Flare ELL



E2- 6

Model	Description
E2- 2	Flare Ell 1/8" Male SAE Flare x 1/8" Male SAE Flare.
E2- 3	3/16" M. SAE x 3/16" M. SAE.
E2- 4	1/4" M. SAE x 1/4" M. SAE.
E2- 5	5/16" M. SAE x 5/16" M. SAE.
E2- 6	3/8" M. SAE x 3/8" M. SAE.
E2- 8	1/2" M. SAE x 1/2" M. SAE.
E2-10	5/8" M. SAE x 5/8" M. SAE.
E2-12	3/4" M. SAE x 3/4" M. SAE.
ER2- 6 4	Reducing Flare Ell 3/8" M. SAE x 1/4" M. SAE.
ER2- 8 4	1/2" M. SAE x 1/4" M. SAE.
ER2- 8 6	1/2" M. SAE x 3/8" M. SAE.
ER2-10 6	1/2" M. SAE x 3/8" M. SAE.
ER2-10 8	1/2" M. SAE x 1/2" M. SAE.
ER2-1210	3/4" M. SAE x 5/8" M. SAE.

Male SAE Flare x ODS Female Solder ELL



ES2- 4 4

Model	Description
ES2- 4 4	Ell 1/4" Male SAE Flare x Ø 1/4" ODS solder.
ES2- 6 6	3/8" M. SAE x Ø 3/8" ODS solder.
ES2- 6 8	3/8" M. SAE x Ø 1/2" ODS solder.
ES2- 8 8	1/2" M. SAE x Ø 1/2" ODS solder.
ES2-1010	5/8" M. SAE x Ø 5/8" ODS solder.

Male SAE Flare x Female NPT National Pipe Thread ELL



E3- 4A

Model	Description
E3- 4A	Ell 1/4" Male SAE Flare x 1/8" Female NPT N. Pipe Thread
E3- 4B	1/4" M. SAE x 1/4" F. NPT.
E3- 4C	1/4" M. SAE x 3/8" F. NPT.
E3- 5B	5/16" M. SAE x 1/4" F. NPT.
E3- 6A	3/8" M. SAE x 1/8" F. NPT.
E3- 6B	3/8" M. SAE x 1/4" F. NPT.
E3- 6C	3/8" M. SAE x 3/8" F. NPT.
E3- 6D	3/8" M. SAE x 1/2" F. NPT.
E3- 8C	1/2" M. SAE x 3/8" F. NPT.
E3- 8D	1/2" M. SAE x 1/2" F. NPT.
E3- 8E	1/2" M. SAE x 3/4" F. NPT.
E3-10D	5/8" M. SAE x 1/2" F. NPT.
E3-10E	5/8" M. SAE x 3/4" F. NPT.

Male SAE Flare x Female SAE Flare ELL



E4- 4 4

Model	Description
E4- 4 4	Ell 1/4" Male SAE Flare x 1/4" Female SAE Flare with Copper Gasket.
E4- 6 6	3/8" M. SAE x 3/8" F. SAE with Copper Gasket.
E4- 8 8	1/2" M. SAE x 1/2" F. SAE with Copper Gasket.

Male SAE Flare x Female SAE Flare Swivel Nut ELL



ES4- 4 4

Model	Description
ES4- 4 4	Ell 1/4" Male SAE Flare x 1/4" Female SAE Flare swivel Nut with Long Tan Copper Gasket
ES4- 6 6	3/8" M. SAE x 3/8" F. SAE.
ES4- 8 8	1/2" M. SAE x 1/2" F. SAE.
ES4-1010	5/8" M. SAE x 5/8" F. SAE.
ES4-1212	3/4" M. SAE x 3/4" F. SAE.

Male SAE Flare x Male Pipe Thread NPT 45° ELL



E5- 4A

Model	Description
E5- 4A	45° Ell 1/4" Male SAE Flare x 1/8" Male Pipe Thread NPT.
E5- 4B	1/4" M. SAE x 1/4" M. NPT.
E5- 5A	5/16" M. SAE x 1/8" M. NPT.
E5- 5B	5/16" M. SAE x 1/4" M. NPT.
E5- 6B	3/8" M. SAE x 1/4" M. NPT.
E5- 6C	3/8" M. SAE x 3/8" M. NPT.
E5- 8B	1/2" M. SAE x 1/4" M. NPT.
E5- 8C	1/2" M. SAE x 3/8" M. NPT.
E5- 8D	1/2" M. SAE x 1/2" M. NPT.
E5-10C	5/8" M. SAE x 3/8" M. NPT.
E5-10D	5/8" M. SAE x 1/2" M. NPT.
E5-12D	3/4" M. SAE x 3/4" M. NPT.

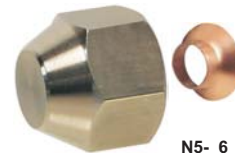
Female SAE Flare - LONG REFRIGERATION NUTS Increasing Vibration Resistance.



N4- 5

Model	Description
N4- 4	Long Nut 1/4" Female SAE Flare x Ø 1/4" O.D.
N4- 5	5/16" F. SAE x Ø 5/16" (8 mm.) O.D.
N4- 6	3/8" F. SAE x Ø 3/8" O.D.
N4- 8	1/2" F. SAE x Ø 1/2" O.D.
N4-10	5/8" F. SAE x Ø 5/8" O.D.
N4-12	3/4" F. SAE x Ø 3/4" O.D.
N4-14	7/8" F. SAE x Ø 7/8" O.D.

Female SAE Flare with Long Tan Copper Gasket CAP



N5- 6

Model	Description
N5- 3	Cap 3/16" Female SAE Flare w/Long Tan Copper Gasket.
N5- 4	1/4" F. SAE.
N5- 5	5/16" F. SAE.
N5- 6	3/8" F. SAE.
N5- 8	1/2" F. SAE.
N5-10	5/8" F. SAE.
N5-12	3/4" F. SAE.
N5-14	7/8" F. SAE.

Female SAE Flare - STANDARD and STRONG NUTS
Standard Nut for R-22, R-134a, R-404a, R-407c, R-507...
or Strong for R-410a, AZ-20, Puron® ... refrigerants.



Model	Description
NS4- 3	Std Nut 3/16" Female SAE Flare x Ø 3/16" O.D.
NS4- 4 410a	Strong Nut 1/4" F. SAE x Ø 1/4" O.D.
NS4- 5 410a	5/16" F. SAE x Ø 5/16" O.D.
NS4- 6 410a	3/8" F. SAE x Ø 3/8" O.D.
NS4- 8 407c	Std Nut 1/2" F. SAE x Ø 1/2" O.D.
NS4- 8 410a	Strong Nut 1/2" F. SAE x Ø 1/2" O.D.
NS4-10 407c	Std Nut 5/8" F. SAE x Ø 5/8" O.D.
NS4-10 410a	Strong Nut 5/8" F. SAE x Ø 5/8" O.D.
NS4-12	Std Nut 3/4" F. SAE x Ø 3/4" O.D.
NS4-14	7/8" F. SAE x Ø 7/8" O.D.

Female SAE Flare REDUCING NUTS



Model	Description
NRS4- 5 4 410a	Reducing Nut 5/16" Female SAE Flare x Ø 1/4" O.D. tubing.
NRS4- 6 4 410a	3/8" F. SAE x Ø 1/4" O.D.
NRS4- 6 5 410a	3/8" F. SAE x Ø 5/16" (8 mm.) O.D.
NRS4- 8 6	1/2" F. SAE x Ø 3/8" O.D.
NRS4- 8 6 410a	1/2" F. SAE x Ø 3/8" O.D.
NRS4-10 8	5/8" F. SAE x Ø 1/2" O.D.
NRS4-10 8 410a	5/8" F. SAE x Ø 1/2" O.D.
NRS4-1210	3/4" F. SAE x Ø 5/8" O.D.
NRS4- 5 6MM	5/16" F. SAE x Ø 6 mm. O.D.
NRS4- 810MM	1/2" F. SAE x Ø 10 mm. O.D.
NRS4-1012MM	5/8" F. SAE x Ø 12 mm. O.D.
NRS4-1216MM	3/4" F. SAE x Ø 16 mm. O.D.

Female SAE Flare FROST PROOF REFRIGERATION NUT

Holes relieve frost in threaded area.



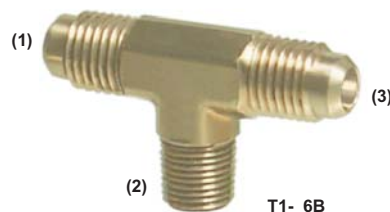
Model	Description
NST4- 4	Frost proof Refrigeration nut 1/4" Female SAE Flare x Ø 1/4" O.D.
NST4- 6	3/8" F. SAE x Ø 3/8" O.D.
NST4- 8	1/2" F. SAE x Ø 1/2" O.D.
NST4-10	5/8" F. SAE x Ø 5/8" O.D.

Male SAE Flare PLUG



Model	Description
P2- 3	Plug 3/16" Male SAE Flare.
P2- 4	1/4" M. SAE.
P2- 5	5/16" M. SAE.
P2- 6	3/8" M. SAE.
P2- 8	1/2" M. SAE.
P2-10	5/8" M. SAE.
P2-12	3/4" M. SAE.
P2-14	7/8" M. SAE.

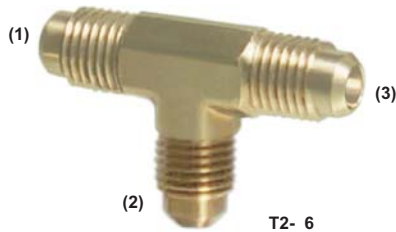
Male SAE Flare x Male Pipe Thread NPT x Male SAE Flare TEE



Model	Description
T1- 2A	TEE (1) 1/8" Male SAE Flare x (2) 1/8" Male NPT National Pipe Thread x (3) 1/8" Male SAE Flare.
T1- 4A	1/4" M. SAE x 1/8" M. NPT x 1/4" M. SAE.
T1- 4B	1/4" M. SAE x 1/4" M. NPT x 1/4" M. SAE.
T1- 4C	1/4" M. SAE x 3/8" M. NPT x 1/4" M. SAE.
T1- 5B	5/16" M. SAE x 1/4" M. NPT x 5/16" M. SAE.
T1- 6B	3/8" M. SAE x 1/4" M. NPT x 3/8" M. SAE.
T1- 6C	3/8" M. SAE x 3/8" M. NPT x 3/8" M. SAE.
T1- 6D	3/8" M. SAE x 1/2" M. NPT x 3/8" M. SAE.
T1- 8B	1/2" M. SAE x 1/4" M. NPT x 1/2" M. SAE.
T1- 8C	1/2" M. SAE x 3/8" M. NPT x 1/2" M. SAE.
T1- 8D	1/2" M. SAE x 1/2" M. NPT x 1/2" M. SAE.

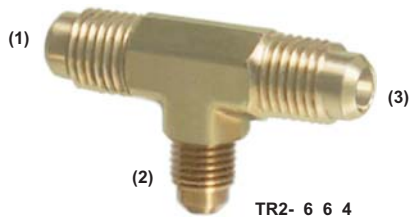
T1-10C	5/8" M. SAE x 3/8" M. NPT x 5/8" M. SAE.
T1-10D	5/8" M. SAE x 1/2" M. NPT x 5/8" M. SAE.
T1-12D	3/4" M. SAE x 1/2" M. NPT x 3/4" M. SAE.

Male SAE Flare x Male SAE Flare x Male SAE Flare TEE



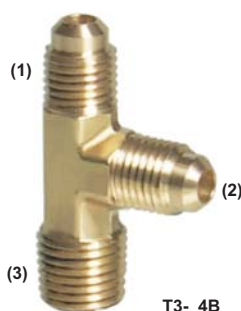
Model	Description
T2- 3	TEE (1) 3/16" Male SAE Flare x (2) 3/16" Male SAE Flare x (3) 3/16" Male SAE Flare.
T2- 4	1/4" M. SAE x 1/4" M. SAE x 1/4" M. SAE.
T2- 5	5/16" M. SAE x 5/16" M. SAE x 5/16" M. SAE.
T2- 6	3/8" M. SAE x 3/8" M. SAE x 3/8" M. SAE.
T2- 8	1/2" M. SAE x 1/2" M. SAE x 1/2" M. SAE.
T2-10	5/8" M. SAE x 5/8" M. SAE x 5/8" M. SAE.
T2-12	3/4" M. SAE x 3/4" M. SAE x 3/4" M. SAE.

(3) Male SAE Flare - REDUCING TEE



Model	Description
TR2- 4 4 6	Reducing TEE (1) (3) 1/4" x (3) 3/8" Male SAE Flare.
TR2- 6 6 4	(1) (3) 3/8" M. SAE x (2) 1/4" M. SAE.
TR2- 6 6 8	(1) (3) 3/8" M. SAE x (2) 1/2" M. SAE.
TR2- 8 8 4	(1) (3) 1/2" M. SAE x (2) 1/4" M. SAE.
TR2- 8 8 6	(1) (3) 1/2" M. SAE x (2) 3/8" M. SAE.
TR2- 8 8 10	(1) (3) 1/2" M. SAE x (2) 5/8" M. SAE.
TR2-1010 8	(1) (3) 5/8" M. SAE x (2) 1/2" M. SAE.

Male SAE Flare x Male SAE Flare x Male NPT National Pipe Thread TEE



Model	Description
T3- 4A	TEE (1) 1/4" Male SAE Flare x (2) 1/4" Male SAE Flare x (3) 1/8" Male NPT National Pipe Thread.
T3- 4B	1/4" M. SAE x 1/4" M. SAE x 1/4" M. NPT.
T3- 5A	5/16" M. SAE x 5/16" M. SAE x 1/8" M. NPT.
T3- 6B	3/8" M. SAE x 3/8" M. SAE x 1/4" M. NPT.
T3- 6C	3/8" M. SAE x 3/8" M. SAE x 3/8" M. NPT.
T3- 8C	1/2" M. SAE x 1/2" M. SAE x 3/8" M. NPT.
T3- 8D	1/2" M. SAE x 1/2" M. SAE x 1/2" M. NPT.
T3-10D	5/8" M. SAE x 5/8" M. SAE x 1/2" M. NPT.
T3-12D	3/4" M. SAE x 3/4" M. SAE x 1/2" M. NPT.
T3-12E	3/4" M. SAE x 3/4" M. SAE x 3/4" M. NPT.

Male SAE Flare x Female SAE Flare x Male SAE - TEE



Model	Description
T6- 4	TEE 1/4" Male SAE Flare x 1/4" Female SAE Flare with Copper Gasket x 1/4" Male SAE Flare.

Male SAE Flare x Male NPT National Pipe Thread UNION



Model	Description
U1- 41	Adapter 1/4" Male SAE Flare x 1/16" Male NPT National Pipe Thread.
U1- 4A	1/4" M. SAE x 1/8" M. NPT.
U1- 4B	1/4" M. SAE x 1/4" M. NPT.
U1- 4C	1/4" M. SAE x 3/8" M. NPT.
U1- 4D	1/4" M. SAE x 1/2" M. NPT.
U1- 51	5/16" M. SAE x 1/16" M. NPT.
U1- 5A	5/16" M. SAE x 1/8" M. NPT.
U1- 5B	5/16" M. SAE x 1/4" M. NPT.
U1- 5C	5/16" M. SAE x 3/8" M. NPT.
U1- 61	3/8" M. SAE x 1/16" M. NPT.
U1- 6A	3/8" M. SAE x 1/8" M. NPT.
U1- 6B	3/8" M. SAE x 1/4" M. NPT.
U1- 6C	3/8" M. SAE x 3/8" M. NPT.
U1- 6D	3/8" M. SAE x 1/2" M. NPT.
U1- 6E	3/8" M. SAE x 3/4" M. NPT.
U1- 8A	1/2" M. SAE x 1/8" M. NPT.

U1- 8B	1/2" M. SAE x 1/4" M. NPT.
U1- 8C	1/2" M. SAE x 3/8" M. NPT.
U1- 8D	1/2" M. SAE x 1/2" M. NPT.
U1- 8E	1/2" M. SAE x 3/4" M. NPT.
U1-10B	5/8" M. SAE x 1/4" M. NPT.
U1-10C	5/8" M. SAE x 3/8" M. NPT.
U1-10D	5/8" M. SAE x 1/2" M. NPT.
U1-10E	5/8" M. SAE x 3/4" M. NPT.
U1-12C	3/4" M. SAE x 3/8" M. NPT.
U1-12D	3/4" M. SAE x 1/2" M. NPT.
U1-12E	3/4" M. SAE x 3/4" M. NPT.
U1-14E	7/8" M. SAE x 3/4" M. NPT.

Male SAE Flare x Male SAE Flare UNION



Model	Description
U2- 4	Union 1/4" Male SAE Flare x 1/4" Male SAE Flare.
U2- 5	5/16" M. SAE x 5/16" M. SAE.
U2- 6	3/8" M. SAE x 3/8" M. SAE.
U2- 8	1/2" M. SAE x 1/2" M. SAE.
U2-10	5/8" M. SAE x 5/8" M. SAE.
U2-12	3/4" M. SAE x 3/4" M. SAE.
U2-14	7/8" M. SAE x 7/8" M. SAE.

Male SAE Flare x Male SAE Flare REDUCING UNION



Model	Description
UR2- 5 4	Reducing 5/16" Male SAE Flare x 1/4" Male SAE Flare.
UR2- 6 4	3/8" M. SAE x 1/4" M. SAE.
UR2- 6 5	3/8" M. SAE x 5/16" M. SAE.
UR2- 8 4	1/2" M. SAE x 1/4" M. SAE.
UR2- 8 5	1/2" M. SAE x 5/16" M. SAE.
UR2- 8 6	1/2" M. SAE x 3/8" M. SAE.
UR2-10 5	5/8" M. SAE x 5/16" M. SAE.
UR2-10 6	5/8" M. SAE x 3/8" M. SAE.
UR2-10 8	5/8" M. SAE x 1/2" M. SAE.
UR2-12 8	3/4" M. SAE x 1/2" M. SAE.
UR2-1210	3/4" M. SAE x 5/8" M. SAE.

Male SAE Flare x Female Pipe Thread F. NPT ADAPTER



Model	Description
U3- 41	Adapter 1/4" Male SAE Flare x 1/16" Female Pipe Thread.
U3- 4A	1/4" M. SAE x 1/8" F. NPT.
U3- 4B	1/4" M. SAE x 1/4" F. NPT.
U3- 4C	1/4" M. SAE x 3/8" F. NPT.
U3- 4D	1/4" M. SAE x 1/2" F. NPT.
U3- 51	5/16" M. SAE x 1/16" F. NPT.
U3- 5A	5/16" M. SAE x 1/8" F. NPT.
U3- 5B	5/16" M. SAE x 1/4" F. NPT.
U3- 5C	5/16" M. SAE x 3/8" F. NPT.
U3- 6A	3/8" M. SAE x 1/8" F. NPT.
U3- 6B	3/8" M. SAE x 1/4" F. NPT.
U3- 6C	3/8" M. SAE x 3/8" F. NPT.
U3- 6D	3/8" M. SAE x 1/2" F. NPT.
U3- 6E	3/8" M. SAE x 3/4" F. NPT.
U3- 8B	1/2" M. SAE x 1/4" F. NPT.
U3- 8C	1/2" M. SAE x 3/8" F. NPT.
U3- 8D	1/2" M. SAE x 1/2" F. NPT.
U3- 8E	1/2" M. SAE x 3/4" F. NPT.
U3-10C	5/8" M. SAE x 3/8" F. NPT.
U3-10D	5/8" M. SAE x 1/2" F. NPT.

Female SAE Flare w/Gasket x Male SAE Flare ADAPTER

* w/Copper Flare Gasket B2
** w/Copper Flare Gasket Long Tan B3



Model	Description
UR3- 4 5 410a	1/4" F. SAE** x 5/16" M. SAE.
UR3- 4 6 410a	1/4" F. SAE** x 3/8" M. SAE.
UR3- 4 8 410a	1/4" F. SAE* x 1/2" M. SAE.
UR3- 5 4 410a	5/16" F. SAE* x 1/4" M. SAE.
UR3- 5 6 410a	5/16" F. SAE* x 3/8" M. SAE.
UR3- 5 8 410a	5/16" F. SAE* x 1/2" M. SAE.
UR3- 6 4 410a	3/8" F. SAE* x 1/4" M. SAE.
UR3- 6 5 410a	3/8" F. SAE* x 5/16" M. SAE.
UR3- 6 8 410a	3/8" F. SAE** x 1/2" M. SAE.
UR3- 610 410a	3/8" F. SAE** x 5/8" M. SAE.
UR3- 8 4 410a	1/2" F. SAE* x 1/4" M. SAE.
UR3- 8 5 410a	1/2" F. SAE* x 5/16" M. SAE.
UR3- 8 6 410a	1/2" F. SAE* x 3/8" M. SAE.
UR3- 810 410a	1/2" F. SAE* x 5/8" M. SAE.
UR3- 812 410a	1/2" F. SAE** x 3/4" M. SAE.

UR3-10 8 410a	5/8" F. SAE* x 1/2" M. SAE.
UR3-1012 410a	5/8" F. SAE** x 3/4" M. SAE.
UR3-12 8	3/4" F. SAE* x 1/2" M. SAE.
UR3-1210	3/4" F. SAE* x 5/8" M. SAE.

Male SAE Flare x ODS Female Solder ADAPTER



Mod.	Descrizione
US3- 4 4	Adapter 1/4" Male SAE Flare x Ø 1/4" Female Solder.
US3- 4 5	1/4" M. SAE x Ø 5/16" (8 mm.) ODS.
US3- 4 6	1/4" M. SAE x Ø 3/8" ODS.
US3- 5 4	5/16" M. SAE x Ø 1/4" ODS.
US3- 5 5	5/16" M. SAE x Ø 5/16" (8 mm.) ODS.
US3- 5 6	5/16" M. SAE x Ø 3/8" ODS.
US3- 6 4	3/8" M. SAE x Ø 1/4" ODS.
US3- 6 5	3/8" M. SAE x Ø 5/16" (8 mm.) ODS.
US3- 6 6	3/8" M. SAE x Ø 3/8" ODS.
US3- 6 8	3/8" M. SAE x Ø 1/2" ODS.
US3- 610	3/8" M. SAE x Ø 5/8" (16 mm.) ODS.
US3- 8 5	1/2" M. SAE x Ø 5/16" (8 mm.) ODS.
US3- 8 6	1/2" M. SAE x Ø 3/8" ODS.
US3- 8 8	1/2" M. SAE x Ø 1/2" ODS.
US3- 810	1/2" M. SAE x Ø 5/8" (16 mm.) ODS.
US3-10 6	5/8" M. SAE x Ø 3/8" ODS.
US3-10 8	5/8" M. SAE x Ø 1/2" ODS.
US3-1010	5/8" M. SAE x Ø 5/8" (16 mm.) ODS.
US3-1012	5/8" M. SAE x Ø 3/4" ODS.
US3-1014	5/8" M. SAE x Ø 7/8" ODS.
US3-12 8	3/4" M. SAE x Ø 1/2" ODS.
US3-1210	3/4" M. SAE x Ø 5/8" (16 mm.) ODS.
US3-1212	3/4" M. SAE x Ø 3/4" ODS.
US3-1214	3/4" M. SAE x Ø 7/8" ODS.
US3-1414	7/8" M. SAE x Ø 7/8" ODS.
US3- 4 6MM	Adapter 1/4" Male SAE Flare x Ø 6 mm. Female ODS Solder.
US3- 410MM	1/4" M. SAE x Ø 10 mm. ODS.
US3- 5 6MM	5/16" M. SAE x Ø 6 mm. ODS.
US3- 510MM	5/16" M. SAE x Ø 10 mm. ODS.
US3- 610MM	3/8" M. SAE x Ø 10 mm. ODS.
US3- 612MM	3/8" M. SAE x Ø 12 mm. ODS.
US3- 810MM	1/2" M. SAE x Ø 10 mm. ODS.
US3- 812MM	1/2" M. SAE x Ø 12 mm. ODS.
US3- 814MM	1/2" M. SAE x Ø 14 mm. ODS.
US3-1014MM	5/8" M. SAE x Ø 14 mm. ODS.
US3-1018MM	5/8" M. SAE x Ø 18 mm. ODS.
US3-1218MM	3/4" M. SAE x Ø 18 mm. ODS.
US3-1222MM	3/4" M. SAE x Ø 22 mm. ODS.

Female SAE* (**) Flare with Copper Gasket x Female SAE* (**) Flare with Copper Gasket CONNECTOR

* with B2 Copper Flare Gasket
** with B3 Copper Flare Gasket Long Tan



Model	Description
U4- 4 410a	Connector (2) 1/4" Female SAE** Flare with Copper Gasket Long Tan.
U4- 5 410a	5/16" F. SAE* x 5/16" F. SAE*.
U4- 6 410a	3/8" F. SAE** x 3/8" F. SAE**.
U4- 8 410a	1/2" F. SAE** x 1/2" F. SAE**.
U4-10 410a	5/8" F. SAE** x 5/8" F. SAE**.
U4-12 410a	3/4" F. SAE** x 3/4" F. SAE**.

Female SAE Flare Swivel Nut with Long Tan Copper Gasket x Female SAE Flare Swivel Nut with Long Tan Copper Gasket CONNECTOR



Model	Description
US4- 4 410a	Connector 1/4" Female SAE Flare Swivel Nut with Long Tan Copper Gasket x 1/4" Female SAE Flare Swivel Nut with Long Tan Copper Gasket.
US4- 5	5/16" F. SAE x 5/16" F. SAE (w/Std. Copper Gasket).
US4- 6 410a	3/8" F. SAE x 3/8" F. SAE.
US4- 8 410a	1/2" F. SAE x 1/2" F. SAE.
US4-10 410a	5/8" F. SAE x 5/8" F. SAE.
US4-12 410a	3/4" F. SAE x 3/4" F. SAE.

Female SAE Flare Swivel Nut with Long Tan Copper Gasket x Female SAE Flare Swivel Nut with Long Tan Copper Gasket REDUCING CONNECTOR



Model	Description
URS4- 5 4 410a	Reducing Connector 5/16" Female SAE Flare Swivel Nut with Long Tan Copper Gasket x 1/4" Female SAE Flare Swivel Nut with Long Tan Copper Gasket.
URS4- 6 4 410a	3/8" F. SAE x 1/4" F. SAE.
URS4- 8 6 410a	1/2" F. SAE x 3/8" F. SAE.
URS4-10 8 410a	5/8" F. SAE x 1/2" F. SAE.
URS4-1210 410a	3/4" F. SAE x 5/8" F. SAE.

Female SAE* (**) Flare with Copper Gasket x Male Pipe Thread MPT ADAPTER



U5- 5A 410a

Model	Description
U5- 4A 410a	Adapter 1/4" Female SAE** Flare with long tan copper gasket x 1/8" Male NPT National Pipe Thread.
U5- 4B 410a	1/4" F. SAE** x 1/4" M. NPT.
U5- 5A 410a	5/16" F. SAE* x 1/8" M. NPT.
U5- 5B 410a	5/16" F. SAE* x 1/4" M. NPT.
U5- 6B 410a	3/8" F. SAE** x 1/4" M. NPT.
U5- 6C 410a	3/8" F. SAE** x 3/8" M. NPT.
U5- 6D 410a	3/8" F. SAE** x 1/2" M. NPT.
U5- 8C 410a	1/2" F. SAE** x 3/8" M. NPT.
U5- 8D 410a	1/2" F. SAE** x 1/2" M. NPT.
U5- 6C 410a	3/8" F. SAE** x 3/8" M. NPT.
U5- 6D 410a	3/8" F. SAE** x 1/2" M. NPT.
U5- 8C 410a	1/2" F. SAE** x 3/8" M. NPT.
U5- 8D 410a	1/2" F. SAE** x 1/2" M. NPT.

Female SAE* (**) Flare with Copper Gasket x Female Pipe Thread FPT ADAPTER

* with B2 Copper Flare Gasket
** with B3 Copper Flare Gasket Long Tan



B3

B2

U6- 5A 410a

Model	Description
U6- 41 410a	Adapter 1/4" Female SAE** Flare with B3 long tan copper gasket x 1/16" Female Pipe Thread NPT R410a.
U6- 4A 410a	1/4" F. SAE** x 1/8" F. NPT. R-410a.
U6- 4B 410a	1/4" F. SAE** x 1/4" F. NPT. R-410a.
U6- 4C 410a	1/4" F. SAE** x 3/8" F. NPT. R-410a.
U6- 51 410a	5/16" F. SAE* x 1/16" F. NPT. R-410a.
U6- 5A 410a	5/16" F. SAE* x 1/8" F. NPT. R-410a.
U6- 5B 410a	5/16" F. SAE* x 1/4" F. NPT. R-410a.
U6- 5C 410a	5/16" F. SAE* x 3/8" F. NPT. R-410a.
U6- 61 410a	3/8" F. SAE** x 1/16" F. NPT. R-410a.
U6- 6A 410a	3/8" F. SAE** x 1/8" F. NPT. R-410a.
U6- 6B 410a	3/8" F. SAE** x 1/4" F. NPT. R-410a.
U6- 6C 410a	3/8" F. SAE** x 3/8" F. NPT. R-410a.
U6- 8B 410a	1/2" F. SAE** x 1/4" F. NPT. R-410a.
U6- 8C 410a	1/2" F. SAE** x 3/8" F. NPT. R-410a.

Female SAE** Flare Swivel Nut with B3 Copper Gasket Long Tan x Copper Tube Extension ODS solder ADAPTER



B3

US5- 6 6 410a

Model	Description
US5- 4 4 410a	Adapter 1/4" Female SAE** Flare Swivel Nut with long tan copper gasket x 1/4" ODS R410a.
US5- 6 6 410a	3/8" F. SAE** x 3/8" ODS R410a.
US5- 8 8 410a	1/2" F. SAE** x 1/2" ODS R410a.
US5-1010 410a	5/8" F. SAE** x 5/8" ODS R410a.
US5-1212 410a	3/4" F. SAE** x 3/4" ODS R410a.

Female SAE * (**) Flare x Male SAE Flare

* with B2 copper flare gasket
** with B3 long tan copper gasket



B3

B2

U3- 4 410a

Model	Description
U3- 4 410a	Extension 1/4" Female SAE** with long tan copper gasket x 1/4" Male SAE. R410a.
U3- 5 410a	5/16" F. SAE* x 5/16" M. SAE. R410a.
U3- 6 410a	3/8" F. SAE** x 3/8" M. SAE. R410a.
U3- 8	1/2" F. SAE** x 1/2" M. SAE.
U3- 8 410a	1/2" F. SAE** x 1/2" M. SAE. R410a.
U3-10	5/8" F. SAE** x 5/8" M. SAE.
U3-10 410a	5/8" F. SAE** x 5/8" M. SAE. R410a.

Female SAE Thread HEX LOCK NUT



HLN- 4

Mod.	Descrizione
HLN- 4	Hex Lock Nut 1/4" Female SAE.
HLN- 5	5/16" F. SAE.
HLN- 6	3/8" F. SAE.
HLN- 8	1/2" F. SAE.
HLN-10	5/8" F. SAE.

Male SAE Flare x Male Pipe Thread NPT EXTRA LONG ADAPTER



UX1- 4B

Mod.	Descrizione
UX1- 4A	Extra Long Adapter 1/4" Male SAE Flare x 1/8" Male Pipe Thread NPT.
UX1- 4B	1/4" M. SAE x 1/4" M. NPT.
UX1- 4C	1/4" M. SAE x 3/8" M. NPT.
UX1- 5A	5/16" M. SAE x 1/8" M. NPT.
UX1- 5B	5/16" M. SAE x 1/4" M. NPT.
UX1- 5C	5/16" M. SAE x 3/8" M. NPT.

Male SAE Flare x Male SAE Flare EXTRA LONG UNION



UX2- 5

Model	Description
UX2- 4	Extra Long Union 1/4" Male SAE Flare x 1/4" Male SAE Flare.
UX2- 5	5/16" M. SAE x 5/16" M. SAE.

FUSIBLE PLUGS

Fusible plugs are devices that function with the melting of the fusible alloy, of easy installation, and maximum safety. It's purpose is to act as a safety device allowing the safe controlled release of pressure in case of overheating (the lead core melts away).

Fusible plugs are formed with a tapered hole, this hole runs throughout the entire length of the plug, it is then secured with a mix of eutectic alloys located so that it is not disturbed or under any stress when the plug is tightened. Thanks to an appositely internal improved contact surface the mechanical strength such as creep properties of the alloy is very high, assuring a proper and effective sealing relationship between the body and the eutectic alloy.

NOTE : Fusible plugs do not protect in case of overpressure due to the improper refrigerant charging methods. Fusible plugs are NOT to be used with Ammonia R-717 or in an Ammonia atmosphere.

FUSIBLE PLUGS - Male NPT National Pipe Thread



FP-C-283

Model	Description
Temperature 76° C. (168° F.)	
FP-A-168	Fusible Plug 1/8" Male NPT National Pipe Thread.
FP-B-168	1/4" M. NPT.
FP-C-168	3/8" M. NPT.
Temperature 99° C. (210° F.)	
FP-A-210	1/8" M. NPT.
FP-B-210	1/4" M. NPT.
FP-C-210	3/8" M. NPT.
Temperature 140° C. (283° F.)	
FP-A-283	1/8" M. NPT.
FP-B-283	1/4" M. NPT.
FP-C-283	3/8" M. NPT.

Temperature 76° C. (168° F.)	
FP-AGAS-168	Fusible Plug 1/8" Male GAS Thread.
FP-BGAS-168	1/4" M. G.
FP-CGAS-168	3/8" M. G.
Temperature 99° C. (210° F.)	
FP-AGAS-210	1/8" M. G.
FP-BGAS-210	1/4" M. G.
FP-CGAS-210	3/8" M. G.
Temperature 140° C. (283° F.)	
FP-AGAS-283	1/8" M. G.
FP-BGAS-283	1/4" M. G.
FP-CGAS-283	3/8" M. G.

FUSIBLE PLUGS - Male SAE Flare x Male NPT National Pipe Thread



FU-4B-283

Temperature 76° C. (168° F.)	
FU-4B-168	Fusible plug 1/4" Male SAE Flare x 1/4" Male NPT National Pipe Thread.
FU-4C-168	1/4" M. SAE x 3/8" M. NPT.
FU-6C-168	3/8" M. SAE x 3/8" M. NPT.
Temperature 99° C. (210° F.)	
FU-4B-210	1/4" M. SAE x 1/4" M. NPT.
FU-4C-210	1/4" M. SAE x 3/8" M. NPT.
FU-6C-210	3/8" M. SAE x 3/8" M. NPT.
Temperature 140° C. (283° F.)	
FU-4B-283	1/4" M. SAE x 1/4" M. NPT.
FU-4C-283	1/4" M. SAE x 3/8" M. NPT.
FU-6C-283	3/8" M. SAE x 3/8" M. NPT.