

SAE Inverted Flare Fittings

Typical Application

LP and natural gas, flammable liquids, hydraulic brake, power steering, fuel lines and transmission cooler lines, refrigeration, hydraulic and pneumatic systems. Used on low, medium and high pressure lines under the most adverse conditions, compatible with copper, brass, aluminum and steel hydraulic tubing that can be flared.

Features

Construction - Short nut affords very close tube bends. Steel or brass tube nut, straight barstock & forged fittings.

Good Vibration resistance - Use long nut when greater vibration resistance is required.

Conformance - Heavy duty flare fittings are manufactured to SAE specifications, Meets specifications and standards of ASA, ASME, SAE, and MS (Military standards).

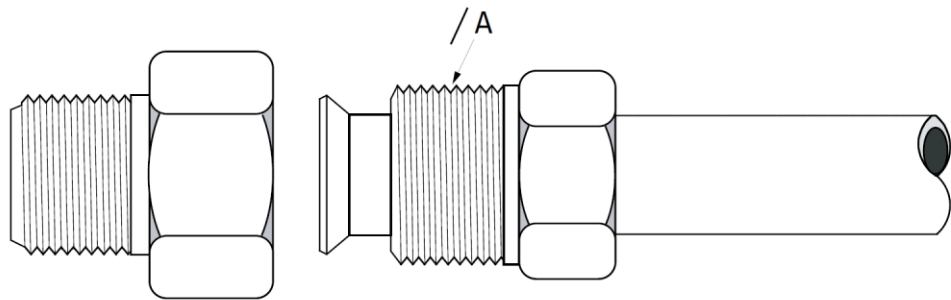
Reusability - Can be assembled and re-assembled repeatedly & Resists mechanical pull

Specification

Temperature Range: -65°F to +250°F (-53°C to +121°C) range at maximum operating pressures.

Working Pressure: up to 2000 psi depending on tube size. Will withstand burst pressure of standard tubing - up to 5000 psi with Bundy-weld (double flared) and 3500 psi with copper tubing, depending on size. Obviously, Temperature and type of tubing used are important factors.

Installation Instructions



Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.

Slide nut on tube. Threaded end "A" of nut must face out.

Flare end of tube with a 45° flaring tool. See page 20 for flare data.


a. Measure flare diameter.


b. Examine flare for excessive thin out.


c. On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.

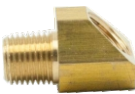
Lubricate threads and assemble to connector body. Nut should be turned hand tight.


Tighten assembly with a wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.


			Nut - SAE Inverted Flare Fittings		
MODEL	Inverted Flare				
IFN 1/8	1/8				
IFN 3/16	3/16				
IFN 1/4	1/4				
IFN 5/16	5/16				
IFN 3/8	3/8				
IFN 1/2	1/2				


			Union - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Inverted Flare			
IFU 1/8	1/8	1/8			
IFU 3/16	3/16	3/16			
IFU 1/4	1/4	1/4			
IFU 5/16	5/16	5/16			
IFU 3/8	3/8	3/8			
IFU 1/2	1/2	1/2			


			Female Adapter - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Female NPT			
IFFA 3/16-1/8NPT	3/16	1/8NPT			
IFFA 1/4-1/8NPT	1/4	1/8NPT			
IFFA 5/16-1/8NPT	5/16	1/8NPT			
IFFA 3/8-1/4NPT	3/8	1/4NPT			
IFFA 1/2-3/8NPT	1/2	3/8NPT			


			45 Male Ebow - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Male NPT			
IFML45 3/16-1/8NPT	3/16	1/8NPT			
IFML45 1/4-1/8NPT	1/4	1/8NPT			
IFML45 5/16-1/8NPT	5/16	1/8NPT			
IFML45 5/16-1/4NPT	5/16	1/4NPT			
IFML45 3/8-1/4NPT	3/8	1/4NPT			
IFML45 1/2-3/8NPT	1/2	3/8NPT			
IFML45 5/8-1/2NPT	5/8	1/2NPT			


			Male Run Tee - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Male NPT			
IFMRT 3/16-1/8NPT	3/16	1/8NPT			
IFMRT 1/4-1/8NPT	1/4	1/8NPT			
IFMRT 5/16-1/8NPT	5/16	1/8NPT			
IFMRT 3/8-1/4NPT	3/8	1/4NPT			


			Male Adapter - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Male NPT			
IFMA 1/8-1/8NPT	1/8	1/8NPT			
IFMA 3/16-1/8NPT	3/16	1/8NPT			
IFMA 1/4-1/8NPT	1/4	1/8NPT			
IFMA 1/4-1/4NPT	1/4	1/4NPT			
IFMA 5/16-1/8NPT	5/16	1/8NPT			
IFMA 5/16-1/4NPT	5/16	1/4NPT			
IFMA 3/8-1/8NPT	3/8	1/8NPT			
IFMA 3/8-1/4NPT	3/8	1/4NPT			
IFMA 3/8-3/8NPT	3/8	3/8NPT			
IFMA 1/2-1/4NPT	1/2	1/4NPT			
IFMA 1/2-3/8NPT	1/2	3/8NPT			
IFMA 1/2-1/2NPT	1/2	1/2NPT			
IFMA 5/8-1/2NPT	5/8	1/2NPT			
IFMA 3/4-3/4NPT	3/4	3/4NPT			


			Male Elbow - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Male NPT			
IFML 1/8-1/8NPT	1/8	1/8NPT			
IFML 3/16-1/8NPT	3/16	1/8NPT			
IFML 1/4-1/8NPT	1/4	1/8NPT			
IFML 1/4-1/4NPT	1/4	1/4NPT			
IFML 5/16-1/8NPT	5/16	1/8NPT			
IFML 5/16-1/4NPT	3/8	1/4NPT			
IFML 3/8-1/8NPT	3/8	1/8NPT			
IFML 3/8-1/4NPT	3/8	1/4NPT			
IFML 3/8-3/8NPT	3/8	3/8NPT			
IFML 1/2-3/8NPT	1/2	3/8NPT			
IFML 1/2-1/2NPT	1/2	1/2NPT			
IFML 5/8-3/8NPT	5/8	3/8NPT			
IFML 5/8-1/2NPT	5/8	1/2NPT			
IFML 3/4-1/2NPT	3/4	1/2NPT			
IFML 7/8-3/4NPT	7/8	3/4NPT			
IFML 1-1NPT	1	1NPT			

			Union Tee - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Inverted Flare	Inverted Flare		
IFUT 1/8	1/8	1/8	1/8		
IFUT 3/16	3/16	3/16	3/16		
IFUT 1/4	1/4	1/4	1/4		
IFUT 5/16	5/16	5/16	5/16		
IFUT 3/8	3/8	3/8	3/8		
IFUT 1/2	1/2	1/2	1/2		

			Male Branch Tee - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Male NPT			
IFMBT 3/16-1/8NPT	3/16	1/8NPT			
IFMBT 1/4-1/8NPT	1/4	1/8NPT			
IFMBT 5/16-1/8NPT	5/16	1/8NPT			
IFMBT 3/8-1/4NPT	3/8	1/4NPT			

			Female Elbow - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Female NPT			
IFFL 1/4-1/8NPT	1/4	1/8NPT			
IFFL 5/16-1/8NPT	5/16	1/8NPT			
IFFL 3/8-1/4NPT	3/8	1/4NPT			

			Female Branch Tee - SAE Inverted Flare		
MODEL	Inverted Flare	Female NPT			
IFFBT 3/16-1/8NPT	3/16	1/8NPT			
IFFBT 5/16-1/8NPT	5/16	1/8NPT			
IFFBT 3/8-1/4NPT	3/8	1/4NPT			

			Union Elbow - SAE Inverted Flare Fittings		
MODEL	Inverted Flare	Inverted Flare			
IFUL 1/8	1/8	1/8			
IFUL 3/16	3/16	3/16			
IFUL 1/4	1/4	1/4			
IFUL 5/16	5/16	5/16			
IFUL 3/8	3/8	3/8			
IFUL 1/2	1/2	1/2			