

Style and Description

Used extensively in the Plumbing and Gas Sectors, SAE 45° Flare fittings offer an excellent alternative to fittings that require a heat/flame to complete a seal. Flare fittings require the tube to be 'belled' or flared prior to assembly as the flared piece of tube is held in place between the nut and body.

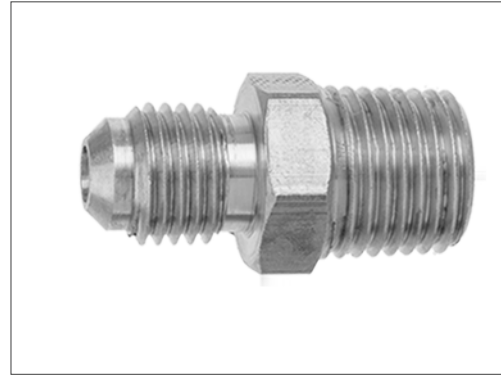
Flare Fittings are ideal in situations involving mid-high level vibration.

Working Pressure

0-23700kPa depending upon tube size and media.

Construction

- Flare Nut
- Flare Body
- Material: 352 DZR Alloy
- Pipe Thread BSP: AS1722.1 Tapered Male (R series) Parallel Female (Rp Series)
- Pipe Thread NPT



Media / Application

- ✓ Potable Water
- ✓ Gas
- ✓ LPG (Auto, domestic and commercial)
- ✓ Fuel and brake lines
- ✓ Refrigeration lines
- ✓ Hydraulics
- ✓ Pneumatics

Tube

- ✓ Copper - Annealed and hard drawn
- ✓ Brass
- ✓ Aluminium
- ✓ Steel Bundy
- ✗ Stainless Steel
- ✗ Nylon
- ✗ Poly tube

Assembly & Installation

1. Cut the tube square, clean and remove any burrs or loose cuttings.
2. Slide tube nut over the tubing.
3. Using a 45° flaring tool, flare the end of the tube (as per tool instructions).
4. After the tube has been flared, ensure the tube nut is able to pass over the flared end and mate with the seat of the nut.
5. Assemble the tube nut onto fitting and tighten until 'spanner firm' (**Caution: do not over-tighten**).
6. If used in a pneumatic application, apply a soap solution to the joint to be certain a positive seal has been made. Visually inspect for leaks if used in an hydraulic application.

Maximum Working Pressure Tables for Tube Connection Fittings (kPa)

All working pressures are calculated at an ambient temperature using a safety factor of 4:1. Generally, working pressure is dependent upon the type of tubing used and not the fitting. Consequently the tables shown below should be used as a guide only.

Hydraulic Applications Only

Tube O.D	Standard Compression	Internal Compression	SAE 45° Flare	SAE 45° Inverted Flare	Fleetfit Air Brake	Pneufit
1/8	23700	23700	23700	23700	n/r	n/r
3/16	15300	15300	22150	22150	n/r	n/r
1/4	12080	12080	16200	16200	n/r	n/r
5/16	9380	9380	12600	12600	n/r	n/r
3/8	7680	7680	10200	10200	n/r	n/r
1/2	5630	5630	7450	7450	n/r	n/r
5/8	n/a	3500	6090	n/a	n/r	n/r
3/4	n/a	3500	4850	n/a	n/r	n/r
4mm	15300	n/a	n/a	n/a	n/r	n/r
6mm	12080	n/a	n/a	n/a	n/r	n/r
8mm	9380	n/a	n/a	n/a	n/r	n/r
10mm	7680	n/a	n/a	n/a	n/r	n/r
12mm	5630	n/a	n/a	n/a	n/r	n/r

n/a = Not Available n/r = Not Recommended for Hydraulic Applications

Pneumatic Applications

Tube O.D	Standard Compression	Internal Compression	SAE 45° Flare	SAE 45° Inverted Flare	Fleetfit Air Brake	Pneufit Brass
1/8	17775	17775	17775	17775	1050	1800
3/16	11475	11475	11475	11475	1050	1800
1/4	9060	9060	9060	9060	1050	1800
5/16	7035	7035	7035	7035	1050	1800
3/8	5760	5760	5760	5760	1050	1800
1/2	4370	4370	4370	4370	1050	1800
5/8	n/a	2625	2625	n/a	1050	n/a
3/4	n/a	2625	2625	n/a	1050	n/a
4mm	11475	n/a	n/a	n/a	1050	1800
6mm	9060	n/a	n/a	n/a	1050	1800
8mm	7035	n/a	n/a	n/a	1050	1800
10mm	5760	n/a	n/a	n/a	1050	1800
12mm	4370	n/a	n/a	n/a	1050	1800

n/a = Not Available