



PIPE ADAPTER FITTINGS

Literature





Figure 1 Adapter Fittings

Introduction:

RFS Adapters are used to connect system equipment when no standard solution is possible (for example different threads or size reductions etc.). RFS Adapters mainly consist of steel and stainless steel material and provide instant solutions to ensure no project delays.

These fittings are used on oil hydraulic systems in many fields (fuel delivery, fuel power application, shipbuilding, mobile hydraulic equipment, etc). A JIC fitting system has three components that make a tubing assembly: fitting, flare nut, and sleeve.

Material:

Adapter fittings material include carbon steel and stainless steel SS316.

Sizes:

Adapter fittings are available between 1/8" to 1 2". Sleeve has two different reading measurements, metric size (mm) and inch outer diameter ("OD). Sleeve size is available from 3mm to 50mm and 1/8" to 2". Fitting sizes are designated by the corresponding outside diameter of the tubing for the various types of tube ends.



Figure 2 Adapter Bushing C/W ED Seal

Working Pressure:

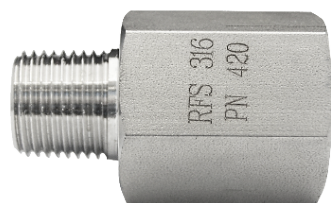


Figure 3 SS316 NPT (M x F) Adapter

The standard working pressure of the fittings is up to 420 bar, with different pressures for different sizes and connections. The minimum burst pressure is four times the working pressure.

Pressure rating of fittings may vary when connected to different equipment. For example, if a fitting with a low working pressure is connected to a pipe, it will result in an overall lower system working pressure. In all cases, always consider the lowest pressure as the maximum working pressure of the system.

Pressure ratings for each adapter table are at an ambient temperature of 37°C (100°F). The pressure ratings of adapters are as per the requirements of ASME B31.3 process piping guide

Adapter Temperature De-rating Factor

Adapter Fittings temperature ratings vary in accordance to the body material as per below:

°C	-60	38	93	204	315	426	537
SS316	1.00	1.00	1.00	0.96	0.85	0.79	0.76
Carbon Steel	-	1.00	0.94	0.86	-	-	-
Brass	-	1.00	0.78	0.13	-	-	-

Chuan Kok Hardware & Machinery Pte Ltd

Address : 1783 Geylang Bahru, #01-02, Singapore 339708
Telephone Number : +65 6294 2566
Email Address : info@chuankok.com
Website : www.chuankok.com
Business Registration Number : 198201577Z
Country of Registration : Singapore

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