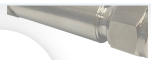


TWIN / DOUBLE FERRULE FITTINGS



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Metric Size Range	<ul style="list-style-type: none">• 6 MM to 42 MM
Inch Size Range	<ul style="list-style-type: none">• 1/4"OD to 2"OD
Design Standard	<ul style="list-style-type: none">• Double Ferrule Design
Material	

and ferrules. These fittings are well known as double ferrule fittings or instrumentation fittings that has a generic design that has been used in industry since 1940s.

Instrumentation fittings are supplied in a wide range of applications such as shipbuilding, oil and gas, chemical, fuel, and power generation. The available materials for twin ferrule fittings are **stainless steel** and **brass**, with a working pressure for double ferrule fittings **up to 670 Bar, depending on tube wall thickness and tube material.**

Fittings available are also equivalent to **Swagelok** or

Pressure	<ul style="list-style-type: none"> Up to 670 BAR
----------	---

Brand:



RFS Hydraulics

HSME

Catalogue:

- **RFS Twin / Double Ferrule Fittings**
- **HSME Twin / Double Ferrule Fittings**

Literature:

Twin / Double Ferrule Fittings

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Product Information of Twin / Double Ferrule Fittings

1. Specifications:

Tube Fittings are designed to meet the specifications required by industrial applications. Twin ferrule fittings are often referred to as double ferrule fittings or instrumentation fittings. There are two popular brands for twin or double ferrule fittings which are both from the United States, Swagelok and Parker A-lok.



Twin or Double Ferrule
Tube Fittings

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ing is made up of four components, which are fitting body, back nut. The two ferrule design provides outstanding leak-tight tube-gripping action and improved resistance to vibration. In a twin or double ferrule fitting design, the back ferrule moves the front ferrule forward to bring-load the fitting assembly and seal with the fitting body, and create the tubing seal.

leak-proof sealing. As a result, the tube does not move radially during installation, and it is not strained. The mechanical integrity of the system is preserved. The twin or double ferrule fitting has close tolerance control in machining, surface smoothness, and hardness of each component.

2. Material:

Twin or double ferrule tube fittings are available in Stainless Steel, Steel and Brass Material. Additional processing had been carried out, to protect fittings from corrosion. The additional process is passivation (stainless steel), white zinc electroplating with chrome VI free (steel), and acid cleaning (brass).

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ating:

Twin or double ferrule fittings are measured in metric (mm) and inches sizes ("OD). The metric sizes range from 2mm to 50mm.


4. Purpose and Application:

Twin or double ferrule fittings are simple to install. Welding or threaded ends are not required for the connections. It shifts to cost-cutting, resulting in less reliance on manpower. They may be re-used several times while maintaining a cheap material cost. The following are some of the advantages of utilizing a twin or double ferrule fitting:

- Exceptional ductility and tensile strength
- Excellent corrosion and chemical resistance
- High-pressure and high-temperature tolerance
- Ability to resist severe weather and the environment

Twin or double ferrule fittings are generally supplied in a wide range of sectors as following:

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- Power generation
- Pharmaceutical





FERRULE FITTINGS (BODY)

5. Fitting Assembly Instruction:

Before inserting the tube into the fittings, make sure that the tube ends are well prepared, and then lightly deburr the inner and outer diameters. After that, insert the tube, until it reaches the ends of the fitting shoulder, and hand-tighten with the nut. Scribe the nut vertically at 6 o'clock position, and the wrench tighten with 1 1/4 turns horizontally, while holding the body firmly with a second wrench to the 9 o'clock position.

6. Tube Fittings Pressure Ratings:

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Fittings is rated to the working pressure of tubing as listed in the tubing tables. Pressure ratings are for seamless stainless steel tubing ASTM A269/A213 and TP 316/316L, 304/304L or equivalent. Tubes are suitable for bending and flaring with hardness 90 HRB or less.



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Working pressure are shown in psi.

Tube OD (in)	WT(in) 0.028"	WT(in) 0.035	WT(in) 0.049	WT(in) 0.065	WT(in) 0.083	WT(in) 0.095	WT(in) 0.109	WT(in) 0.120	WT(in) 0.134	WT(in) 0.156	WT(in) 0.188
1/8	8500	10900									
3/16	5400	7000	10200								
1/4	4000	5100	7500	10200							
5/16	4000	5800	8000								
3/8	4000	4800	6500	8600							
1/2	4000	3700	5100	6700							
5/8		2900	4000	5200	6000						

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1 1/4					2400	2800	3300	3600	4100	4900	
1 1/2						2300	2700	3000	3400	4000	4900
2							2000	2200	2500	2900	3600

Table 2: Metric Seamless Stainless Steel Tubing

Working pressure are shown in bar.

Tube OD (mm)	WT(mm) 1.0	WT(mm) 1.5	WT(mm) 2.0	WT(mm) 2.5	WT(mm) 3.0	WT(mm) 3.5	WT(mm) 4.0	WT(mm) 4.5	WT(mm) 5.0
6	420	670							
		490							
		380							
12	200	310	430						

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16		240	330						
18		210	290	370					
20		190	260	330					
22		170	230	300					
25			200	260	320				
28			180	230	280	330			
30			170	210	260	310			
32			160	200	240	290	330		
				170	200	240	280	310	
					180	210	250	280	
50					150	180	200	230	260

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

Body Material Temperature Rating

There are reductions in the nominal pressure (PN) caused by the temperature of the fluid medium or surroundings. Please refer to the table below:

38°C	93°C	149°C	204°C	260°C	316°C	343°C	371°C
1	1	0.97	0.9	0.85	0.84	0.82	0.81

Elastomer's Temperature Rating

When combining seal material, the temperature rating of seal may become the limiting factor on the fitting's temperature rating. Kindly refer to the temperature rating below:

NBR	-25°C to 110°C (Default Option)
Viton	-28°C to 204°C
PTFE	-30°C to 315°C

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°C	510°C	538°C	566°C	593°C
8	0.77	0.77	0.73	0.62



621°C	649°C	677°C
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8. IMPA Code: Stainless Steel Flareless Fittings

Twin or Double Ferrule Fittings, which are also called flareless fittings can be found in the IMPA Marine Stores Guide, which is the world's leading reference guide for maritime purchasing and supply. For details on the reference codes of flareless fittings, please kindly see below:

[i. Stainless Steel Flareless Male Connectors](#)





 <p> Want to learn more about Chuan Kok? I'm here to help you find your way.</p>	
IMPA Code	Details
734301	6MM OD x 1/8" NPT SS316 MALE CONNECTOR (TWIN FERRULE)

IMPA Code	Details
734308	8MM OD x 1/2" NPT SS316 MALE CONNECTOR (TWIN FERRULE)



734303	CONNECTOR (TWIN FERRULE)	734310	CONNECTOR (TWIN FERRULE)
734304	6MM OD x 1/2" NPT SS316 MALE CONNECTOR (TWIN FERRULE)	734311	10MM OD x 1/2" NPT SS316 MALE CONNECTOR (TWIN FERRULE)
734305	8MM OD x 1/8" NPT SS316 MALE CONNECTOR (TWIN FERRULE)	734312	12MM OD x 1/4" NPT SS316 MALE CONNECTOR (TWIN FERRULE)
734306	8MM OD x 1/4" NPT SS316 MALE CONNECTOR (TWIN FERRULE)	734313	12MM OD x 3/8" NPT SS316 MALE CONNECTOR (TWIN FERRULE)
734307	8MM OD x 3/8" NPT SS316 MALE CONNECTOR (TWIN FERRULE)	734314	12MM OD x 1/2" NPT SS316 MALE CONNECTOR (TWIN FERRULE)



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Stainless Steel Flareless Male Connectors, please [click here.](#)

[ii. Stainless Steel Flareless Male Elbows](#)

[iii. Stainless Steel Flareless Female Connectors](#)



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IMPA Code	Details
734321	6MM OD x 1/8" NPT SS316 MALE ELBOW (TWIN FERRULE)
734322	6MM OD x 1/4" NPT SS316 MALE ELBOW (TWIN FERRULE)
734323	6MM OD x 3/8" NPT SS316 MALE ELBOW (TWIN FERRULE)
734324	6MM OD x 1/2" NPT SS316 MALE ELBOW (TWIN FERRULE)
734325	6MM OD x 3/4" NPT SS316 MALE ELBOW (TWIN FERRULE)



IMPA Code	Details
734371	6MM OD x 1/8" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734372	6MM OD x 1/4" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734373	6MM OD x 3/8" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734374	6MM OD x 1/2" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734375	8MM OD x 1/4" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)

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734327	(TWIN FERRULE)	734377	CONNECTOR (TWIN FERRULE)
734328	8MM OD x 1/2" NPT SS316 MALE ELBOW (TWIN FERRULE)	734378	10MM OD x 1/4" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734329	10MM OD x 1/4" NPT SS316 MALE ELBOW (TWIN FERRULE)	734379	10MM OD x 3/8" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734330	10MM OD x 3/8" NPT SS316 MALE ELBOW (TWIN FERRULE)	734380	10MM OD x 1/2" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734331	10MM OD x 1/2" NPT SS316 MALE ELBOW (TWIN FERRULE)	734381	12MM OD x 1/4" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734332	1/4" NPT SS316 MALE ELBOW (TWIN FERRULE)	734382	12MM OD x 3/8" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)
734333	12MM OD x 3/8" NPT SS316 MALE ELBOW (TWIN FERRULE)	734383	12MM OD x 1/2" NPT SS316 FEMALE CONNECTOR (TWIN FERRULE)



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please [click here](#).

[iv. Stainless Steel Flareless Unions](#)



IMPA Code	Details
734402	16 UNION COUPLING (TWIN FERRULE)
	16 UNION COUPLING (TWIN FERRULE)

[v. Stainless Steel Flareless Reducing Unions](#)



IMPA Code	Details
734406	6MM OD x 8MM OD SS316 UNION COUPLING (TWIN FERRULE)
734407	8MM OD x 10MM OD SS316 UNION COUPLING (TWIN FERRULE)

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734404	FERRULE)
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For Catalogue Pages of Stainless Steel Flareless Unions, please [click here](#).

[vi. Stainless Steel Flareless Bulkhead Unions](#)



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Details

4411	6MM OD SS316 BULKHEAD UNION (TWIN FERRULE)
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Unions, please [click here](#).

[vii. Stainless Steel Flareless Tee Unions](#)



IMPA Code	Details
734416	6MM OD SS316 UNION TEE (TWIN FERRULE)

734413	10MM OD SS316 BULKHEAD UNION (TWIN FERRULE)
734414	12MM OD SS316 BULKHEAD UNION (TWIN FERRULE)

For Catalogue Pages of Stainless Steel Flareless Bulkhead Unions, please [click here](#).

[viii. Stainless Steel Flareless Nut](#)



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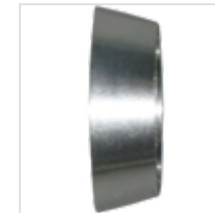
IMPA Code

Details

734419	12MM OD SS316 UNION TEE (TWIN FERRULE)
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For Catalogue Pages of Stainless Steel Flareless Tee Unions, please [click here](#).

[viii. Stainless Steel Front Ferrule](#)



IMPA Code

Details



734433	10MM OD SS316 UNION NUT (TWIN FERRULE)
734434	12MM OD SS316 UNION NUT (TWIN FERRULE)

For Catalogue Pages of Stainless Steel Flareless Nut, please [click here](#).

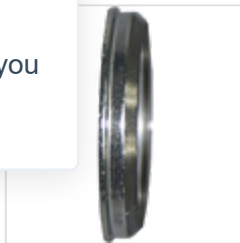
734437	FERRULE)
734438	10MM OD SS316 FRONT FERRULE (TWIN FERRULE)
734439	12MM OD SS316 FRONT FERRULE (TWIN FERRULE)

For Catalogue Pages of Stainless Steel Ferrule Front & Rear, please [click here](#).

[x. Stainless Steel Rear Ferrule](#)


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734441	FERRULE)
734442	8MM OD SS316 BACK FERRULE (TWIN FERRULE)
734443	10MM OD SS316 BACK FERRULE (TWIN FERRULE)
734444	12MM OD SS316 FRONT FERRULE (TWIN FERRULE)

For Catalogue Pages of Stainless Steel Rear Ferrule, please [click here](#).



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Product [Catalogue](#) in pdf:

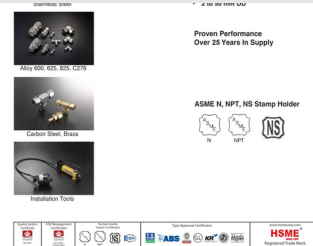


Product [Literature](#) in pdf:





RFS Twin / Double Ferrule Fittings



HSME Twin / Double Ferrule Fittings



Twin / Double Ferrule Fittings

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To go back to **High Pressure Fittings** page

HIGH PRESSURE FITTINGS



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WHAT IS THE WORKING PRESSURE FOR FERRULE FITTINGS?



WHAT ARE THE BENEFITS OF A FERRULE FITTING?



WHICH FIELDS/ INDUSTRIES WOULD APPLY FERRULE FITTINGS?




WHAT ARE THE COMPONENTS INCLUDED IN A COMPLETE SET OF SAE FLANGE END BALL VALVES?



IS CONNECTION NEEDED DURING FITTING ASSEMBLY?



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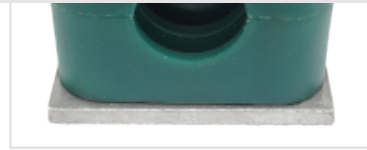
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