



**TÜVRheinland®**  
Precisely Right.

# CERTIFICATE

Of Conformity  
ASTM F 1387-99(2005)  
Piping and Tubing Mechanically Attached Fittings  
For Tubefit Engineers.

Order No : 1403009019  
Report No : 1403009019 (T) -12-001  
Holder : Tubefit Engineers  
Unit No 2&3, Swamini Industrial Estate  
Village Waliv, Vasai  
Dist. Thane- 401208  
Product : Tubefit Instrument Tubing & Pipe Connector  
Identification: TUBEFIT

This Certificate of Conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with relevant provisions of ASTM F 1387-99(2005); **Piping and Tubing Mechanically Attached Fittings**. This Certificate does not imply assessment of the production of the product and does not permit the use of a TUV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the report of the conformity according to the above standard.

Certification Body

MR Dadina



Malcolm Dadina

Mumbai, 31<sup>st</sup> January, 2012.

## Test Report for Type Examination of Pressure Equipment

Test: Type Examination		Test report/Test plan No: 1403009019 (T) -11-001			
Manufacturer/Person responsible for putting the equipment on the market: Tubefit Engineers. Unit No 2&3, Swamini Industrial Estate Village Waliv, Vasai, Dist. Thane- 401208		Factory:  Tubefit Engineers. Unit No 2&3, Swamini Industrial Estate Village Waliv, Vasai, Dist. Thane- 401208			
<b>Technical data of type/type family: Tubefit Instrument Tubing &amp; Pipe Connector</b>					
Drawing number – Generally as per Tubefit Engineers catalogue and associated data		Connectors (1/4"-1" OD Tube Sizes)		Connectors (6mm – 25mm OD Tube Sizes)	
Test Pressure PH [Bar]		1.5 times pressure rating of appropriate thickness tube on sampling bases		1.5 times pressure rating of appropriate thickness tube on sampling bases	
Category:		--		--	
Intended use:		Instrument tubing applications within Oil, Gas, Petrochem, Power and Marine industries			
Type identification:		<b>Tubefit Instrument Tubing &amp; Pipe Connector</b>			
Manufacturer logo:					
Service temperature (max) TS [°C]		Dependent upon material -75 to + 538 Deg C (316SS)		Dependent upon material -75 to + 538 Deg C (316SS)	
Testing based on : Tubefit Engineers established development test and validation criteria			Standards: ASTM F1387-99(2005)		
Directive: N/A			Deviations: NONE		
<b>Tests and examinations:</b>		<b>NO.OF SPICMEN</b>	<b>SIZE</b>	<b>TUBE WALL THICKNESS</b>	<b>DOCUMENT REFERANCE NO.</b>
1.	Examination of Specimen:	112 NOS.	1) ¼" 2) ½" 3) ¾" 4) 1"	0.035" 0.065" 0.083" 0.083"	TFE/ESP/4T TFE/ESP/8T TFE/ESP/12T TFE/ESP/16T
2.	Pneumatic Proof Test:	<input checked="" type="checkbox"/> 112 NOS.	1) ¼" 2) ½" 3) ¾" 4) 1"	0.035" 0.065" 0.083" 0.083"	TFE/PNU/4T TFE/PNU/8T TFE/PNU/12T TFE/PNU/16T
3.	Hydrostatic Proof Test:	<input checked="" type="checkbox"/> 112 NOS.	1) ¼" 2) ½" 3) ¾" 4) 1"	0.035" 0.065" 0.083" 0.083"	TFE/HYD/4T TFE/HYD/8T TFE/HYD/12T TFE/HYD/16T
4.	Impulse Test:	<input checked="" type="checkbox"/> 24 NOS.	1) ¼" 2) ½" 3) ¾" 4) 1"	0.035" 0.065" 0.083" 0.083"	TFE/IMP/4T TFE/IMP/8T TFE/IMP/12T TFE/IMP/16T

5.	Flexure Fatigue Test:	<input checked="" type="checkbox"/>	24 NOS.	1) ¼"	0.035"	TFE/FFT/4T
				2) ½"	0.065"	TFE/FFT/8T
				3) ¾"	0.083"	TFE/FFT/12T
				4) 1"	0.083"	TFE/FFT/16T
6.	Tensile Test:	<input checked="" type="checkbox"/>	24 NOS.	1) ¼"	0.035"	TFE/PLT/4T
				2) ½"	0.065"	TFE/PLT/8T
				3) ¾"	0.083"	TFE/PLT/12T
				4) 1"	0.083"	TFE/PLT/16T
7.	Hydrostatic Burst Test:	<input checked="" type="checkbox"/>	16 NOS.	1) ¼"	0.035"	TFE/HBT/4T
				2) ½"	0.065"	TFE/HBT/8T
				3) ¾"	0.083"	TFE/HBT/12T
				4) 1"	0.083"	TFE/HBT/16T
8.	Repeated Assembly Test:	<input checked="" type="checkbox"/>	24 NOS.	1) ¼"	0.035"	TFE/RIA/4T
				2) ½"	0.065"	TFE/RIA/8T
				3) ¾"	0.083"	TFE/RIA/12T
				4) 1"	0.083"	TFE/RIA/16T
9.	Rotary Flexure Test:	<input checked="" type="checkbox"/>	24 NOS.	1) ¼"	0.035"	TFE/RFT/4T
				2) ½"	0.065"	TFE/RFT/8T
				3) ¾"	0.083"	TFE/RFT/12T
				4) 1"	0.083"	TFE/RFT/16T

**Previously performed tests:**

The Phastite joints in all sizes, shapes and listed tube thicknesses have been tested for hydro test, vacuum test, cycle test, and burst test.

**Selection of test sample(s):**

Quantity: Total 112 NOS.SPECIMEN

Type: Phastite type

**Comments:** The samples are representatives for the type. The tests listed above were performed in compliance with the test requirements of the standards/regulations quoted in this test plan. The test results of item 1 ~ 9 have been examined for compliance with the test requirements of ASTM F1387-99(2005) and found satisfactory.

Location: Vasai, Mumbai

Date: 05/08/2008

Test Laboratory for Transportable  
Pressure Equipment

*MR Dadina*



Malcolm Dadina

**Attachments:** TFE/ESP/4T TO 16T, TFE/PNU/4T TO 16T, TFE/HYD/4T TO 16T, TFE/IMP/4T TO 16T, TFE/FFT/4T TO 16T, TFE/PLT/4T TO 16T, TFE/HBT/4T TO 16T, TFE/RIA/4T TO 16T, TFE/RFT/4T TO 16T.