

## Type Approval Certificate Extension

*This is to certify* that Certificate No. 01/00062(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Swagelok Company 29500 Solon Road Solon, Ohio 44139 United States of America (USA)
<b>PLACE OF PRODUCTION</b>	Swagelok Company 29500 Solon Road Solon, Ohio 44139 United States of America (USA)
<b>DESCRIPTION</b>	Two ferrule flareless mechanical grip tube fittings
<b>TYPE</b>	Gageable tube fittings, in accordance with Swagelok catalogue MS-01-140
<b>APPLICATION</b>	Marine, offshore and industrial piping systems
<b>SPECIFIED STANDARDS</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships; Lloyd's Register's Rules and Regulations for the Classification of Mobile Offshore Units; Lloyd's Register's Rules and Regulations for the Classification of Fixed Offshore Installations.

**Certificate No.** 01/60062(E2)

**Issue Date** 19 April 2011

**Expiry Date** 18 April 2016



Gopal Nair

**Sheet** 1 of 2  
1330 Enclave Parkway, Houston, Texas -77077

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**RATINGS**

Fitting material	Outside diameter.
316 Stainless Steel	1/16" to 2"
	2 mm to 50 mm
Carbon Steel	1/16" to 2"
	2 mm to 50 mm
2507 Duplex Alloy	1/4" to 3/4"
400/R-405 Alloy (Monel)	1/8" to 1"
360 and/or 377 Brass	1/8" to 1 1/8"
Alloy 20 (C-20)	1/4" to 1/2"
Alloy C-276 (Hastelloy C)	1/4" to 1/2"
Alloy 600 (Inconel)	1/4" to 1/2"
Alloy 825 (Inconel)	1/4" to 1/2"
Titanium	1/4" to 1/2"

Pressure and temperature ratings in accordance with Swagelok catalogue MS-01-140

**APPROVAL CONDITIONS**

The fittings are to be assembled in accordance with the manufacturer's instructions.

The manufacturer's recommendations with respect to rated temperature, pressure and fluid compatibility are to be strictly observed.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register North America Inc. of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 01/60062(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 01/00062(E1) to which this extension should be attached.

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