



**MUSSARI S.r.l.**

Traffleria tubi inox di alta precisione  
Via Repubblica 11/B - Tel 031/390677 - 031/492476  
Fax 031/390010

22075 LURATE CACCIUOLO (ITALY)  
web-site: www.mussari.com

EN 10204 / 3.1

ABNAHMEPRÜFZEUGNIS  
CERTIFICAT D'ESSAIS

CERTIFICATO DI COLLAUDO

Comm. Nr. 2029/17

DELIVERY BILL - Lierschein/Bulletin de Livraison/Bolla di consegna  
1682

N. 2155 - 2017

DATE - Datum/Data

25 luglio 2017

CUSTOMER ORDER N° - Bestellung/Commande Client/Ordine Cliente

2017141

**MECHANICAL TEST**

ASTM A 213/269\* - MSR-HP Tubes

Mechanische Prüfungen/Essai Mécaniques/Caratteristiche meccaniche

**STEEL GRADE**

DIMENSIONS

QUANTITY

YIELD POINT

TENSILE STRENGTH

ELONGATION

HARDNESS

TECHNOLOGICAL TEST

Werkstoff/Nuance

Abmessungen

Menge/Quantità/Quantità

Streck-/Dehngrenze  
Limite di snervamento

Zugfestigkeit  
Resistenza a trazione  
Limite di rottura

Bruchdehnung  
Allungamento

Haerte  
Durezza

Technologische Prüfung  
Esami Tecnologici  
Prove tecnologiche

Material

Dimensioni/Dimensioni

MT

PC

LGTH

req.

req.

req.

TP 316 - 316L

9/16" x 0.188"

150.00

≥ 689

≥ 758

≥ 18%

≥ 95

102,6

14.30 X 4.78

150.00

701.0

875.1

21.5

102,3

HEAT N°

%C

%Mn

%Si

%P

%S

%Ni

%Cr

%Mo

9/16" x 0.188"

14.30 X 4.78

0,024

1,050

0,390

0,026

10,420

16,940

2,140

STEEEL GRADE

DIMENSIONS

HEAT N°

%C

%Mn

%Si

%P

%S

%Ni

%Cr

TP 316 - 316L

14.30 X 4.78

0,024

1,050

0,390

0,026

10,420

16,940

2,140

PRODUCT ANALYSIS:

A02784

0,024

1,050

0,390

0,026

10,420

16,940

2,140

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100% hydrostatic pressure tested at == During 5 sec : ==  
Wasserdrukversuch/Essai Hydraulique/Prova idraulica  
100% eddy current test acc. to A1076-MFA 49872-SEP 1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10246-2:GOOD  
Eddy current/Courant de Foucault/Eddy Current

Visual and Dimensional control :  
Beschichtigung und Ausmessung/Controllo Visivo e Dimensionale  
MARKING: Kennzeichnung/Marquage/Marcatura

Straightness control  
Geradheit Kontrolle/Controllo rettiflinea

MSR - ASTM A213/269 - AISI 316-316L Heat No. .... MSR-HP Tubes Size 9/16" x 0.188" O.D. .... mm I.D. C.D. tubes Suf. For 60,000 PSI  
W/bedingungen, dass die gelesene Ware ein Herstellervorschriften entsprechendes Material ist, welches die Anforderungen der Bestellung erfüllt.  
We certify that the material described has been manufactured acc. With above standards and specifications and satisfies the order's requirements.

FLOW TECHNOLOGY LTD  
TEST CERTIFICATE  
VERIFIED TRUE  
COPY OF ORIGINAL



INSPECTION DEPARTMENT SIGNATURE  
Mussari S.r.l.



INSPECTION DEPARTMENT SIGNATURE  
Mussari S.r.l.

F12800  
9/16" HP Nipples 4" Long