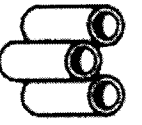


F10748 - 1" Medium Pressure Nipple x 8" Long (20K)



**MUSSARI S.R.L.**

Trafferia Iubi Inox di alta precisione  
Via Repubblica 11/B - Tel 031/390877 - 031/482476  
Fax 031/390010

22075 LURATE CACCOMIO/COMO (ITALY)

web-site: www.mussari.com

TEST CERTIFICATE ACCORDING TO

EN 10204 / 3.1

ABNAHMEPRUEFZEUGNIS  
CERTIFICAT DESAIS

CERTIFICATO DI COLLAUDO

Comm. Int. Nr.  
3178/12\*\*

DELIVERY BILL - Lieferschein/Bulletin de Livraison/Bolla di consegna

116

N. 174 - 2013

DATE - Datum/Date

17 gennaio 2013

CUSTOMER ORDER N° - Bestellung/Commande Cliente/Ordre Cliente

2011195

MECHANICAL TEST

SPECIFICATIONS Anforderungen/Specifications/Normative:

ASTM A213/289 - HP Tubes

STEEL GRADE

DIMENSIONS

QUANTITY

YIELD POINT

TENSILE STRENGTH

ELONGATION

HARDNESS

TECHNOLOGICAL TEST

Werkstoff/Nuance

Abmessungen

Menge/Quantità/Quantité

Spanngrenze  
Limite d'elasticità  
Limite di snervamento

Zugfestigkeit  
Résistance à traction  
Limite di rottura

Dehnung  
Allungamento

Brinell  
Durezza

Tecnologiche/Prove  
Essenziali/Tecnologiche  
Prove tecnologiche

Materiale

Dimensioni/Dimension

MT  
pz.

RP1.0%  
req.

req.

req.

req.

FLARING TEST:  
Erweiterungsversuch/Estiramiento/Élargissement

TP 316 - 316L

1" x 0.219"

154.47

≥ 517

710.0

≥ 724

625.0

FLANGE TEST:  
Kantenversuch/Kantenprüfung

HEAT TREATMENT

HEAT NO.  
Schmelz  
Cotture/Cottura

%C  
MAX

%Mn  
MAX

%SI  
MAX

%P  
MAX

%S  
MAX

%Ni  
MIN 10.00  
MAX 14.00

STEEL GRADE

DIMENSIONS

%Cr  
MAX

%Mo  
MIN 2.00  
MAX 3.00

%Ti

%Ni  
MIN 10.00  
MAX 14.00

%Cr  
MAX

%Mo  
MIN 2.00  
MAX 3.00

Werkstoff/Nuance

Abmessungen

HT  
pz.

RP1.0%  
req.

req.

req.

req.

FLATTENING TEST:  
Klappenversuch/Klappenprüfung

Materiale

Dimensioni/Dimension

MT  
pz.

RP1.0%  
req.

req.

req.

req.

DRIFT EXPANDING TEST:  
Abwechsellagerung/Messung am Mandrin/Arbeits

TP 316 - 316L

1" x 0.219"

YD11-831

0.021

1.150

0.450

0.038

0.005

10.150

10.680

2.080

Werkstoff/Nuance

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Materiale

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Werkstoff/Nuance

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Materiale

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Werkstoff/Nuance

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Materiale

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Werkstoff/Nuance

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Materiale

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

Materiale

Dimensioni/Dimension

HT  
pz.

RP1.0%  
req.

req.

req.

req.

REMARKS

FLOW TECHNOLOGY LTD  
TEST CERTIFICATE  
VERIFIED TRUE  
COPY OF ORIGINAL



**MUSSARI**

INSPECTION DEPARTMENT SIGNATURE

Umsatz Das Werkzeuge/Verständigen  
Vias de l'inspecteur  
Visto controllo di Qualità

**MUSSARI S.R.L.**

100% hydrostatic pressure tested at 90.000 PSI During 30 sec : GOOD  
Wasserdrukversuch/Essai Hydraulique/Prova Idraulica  
100% eddy current test acc.to A1016-NFA 49872-SEP-1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10248-1 : GOOD  
Eddy current/Current de Foucault/Eddy Current  
Visual and Dimensional control :  
Beschreibung und Ausmessung/Controlo Visual e Dimensionale  
OK Straightness control  
Genereller Kontrolle/Contrôle de rectitude/Controlo dell'inflessità

MSR ASTM A213/289 TP 316-316L HP Tubes Suit For 20.000 Psi Size 1" x 0.219" C.D. Heat Nr.... Butech Spec. 2000  
We certify that the material described has been manufactured acc. with above standards and specifications and satisfies the order's requirements.  
Wir bestätigen, dass die gelieferte Ware den Bestellvorschriften entspricht/Nous attestons que les produits livrés sont conformes aux références de la commande/Noi attestiamo che il materiale specific è conforme ai requisiti dell'ordine