



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

FLOW TECHNOLOGY LTD

TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

EN 10204 / 3.1

ABNAHMEPRUFZEUGNIS
CERTIFICAT DESSAIS

CERTIFICATO DI COLLAUDO

Comm. Nr. - Lot. Nr.
1365/16 - 3263/16

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

2769

N. 3604 - 2016

DATE - Datum/Date

19 dicembre 2016

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

2016220

MECHANICAL TEST

SPECIFICATIONS Antorderungen/Specifications/Normative:
ASTM A 213/269 - SMLS MSR-HP Tubes

STEEL GRADE	DIMENSIONS	QUANTITY	YIELD POINT		TENSILE STRENGTH		ELONGATION		HARDNESS	
			MPa	ksi	MPa	ksi	%	MPa	HRB	
TP 316 - 316L	6.35 x 2.10 1/4" x 0.083"	300.00	Req.	Result	Req.	Result	Req.	Result	Req.	Result
			783.0	780.3	≥ 758	922.5	≥ 18%	19.0	≥ 95	101.7
			LIMITS OF SUPPLY		LIMITS OF SUPPLY		LIMITS OF SUPPLY		LIMITS OF SUPPLY	
			MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
			0.035	2.00	0.75	0.045	0.03	MIN 10.00 MAX 14.00	MIN 15.00 MAX 18.00	MIN 2.00 MAX 3.00

100% hydrostatic pressure tested at ===== **During 5 sec :**

Wasserdruckversuch/Essai Hydraulique/Prova idraulica
100% eddy current test acc.to A1076-NFA 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 :

Inspección visual y Dimensional/Controllo Visivo e Dimensionale

OK

MARKING-Kennzeichnung/Marquage/Marcatura

MSR - AISI 316-316L - ASTM A213/269 MSR-HP Tubes Heat. Nr. A03020 - Tubes Size 1/4x0.083" O.D.mm I.D. C.D. Tubes Suit. For 60.000 Psi

REMARKS

Bemerkungen/Notes/Note

smls tubes cold drawn HARD pickled

Egou décapés - Tubi senza saldatura trifilati a freddo CRUDI decapati

nantloses rohr kalt gezogen HART gebeitzt - Tubes sans soudure tirées à froid

Suitable for 60.000 Psi

HEAT TREATMENT :
Wärmebehandlung/Traitement Termique

PMI TEST on each tube:
Verwechslungsprüfungssai P.M.I./Prova anti mescolanze

Intergranular corrosion test acc. To A262/Pract E
Korrosionslösende Rückständen/Essai testides corrosivi/Prova residui corrosivi

INSPECTION DEPARTMENT SIGNATURE:
Viziero, Doc. Versuchsverfahren/Integre

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F12708
1/4" HP Nipple x 77mm Long 60K