



**MUSSARI S.R.L.**

Traffleria lubi inox di alta precisione  
Via Repubblica 11/B - Tel 031/390877 - 031/492476  
Fax 031/390010  
22075 LURATE CACCIANO/COMO (ITALY)  
web-site: www.mussari.com

TEST CERTIFICATE ACCORDING TO

EN 10204 / 3.1

ABNAHMEPRÜFZEUGNIS  
CERTIFICAT D'ESSAIS  
CERTIFICATO DI COLLAUDO

Comm. Int. Nr.  
3177/12\*

DELIVERY BILL - Lieferchein/Buletin de Livrare/Bolla di consegna

N. 175 - 2013

DATE - Datum/Dato

17 gennaio 2013

116

CUSTOMER ORDER N° - Bestellung/Commande Clienti  
2011195

MECHANICAL TEST  
Essai Mécanique/Controlador de resistencia mecánica

SPECIFICATIONS Anforderungen/Specificazioni/Normative:  
ASTM A213/269 - HP Tubers

TECHNOLOGICAL TEST  
Technologische Prüfung  
Elementi Tecnologice  
Prove tecnologiche

STEEL GRADE Werkstoff/Matériau Materiale	DIMENSIONS Abmessungen Dimensioni/Dimensioni	QUANTITY Menge/Quantità/Quantità	YIELD POINT Spéc. Déformation Limite d'élasticité		TENSILE STRENGTH Zugfestigkeit Résistance à la traction Limite de rupture		ELONGATION Élongation Allongement Allongamento		HARDNESS Dureté Durezza	REMARKS Bemerkungen/Notas/Notie	
			RP1.0% req.	result	req.	result	% LO2 req.	result			req.
TP 316 - 316L	3/4" x 0.156"	155.40	RP1.0%	991.3	≥ 724	1131.2	≥ 22%	22.0	≥ 95	Flange Test: Krimpversuch/Bongobolotuk Flattening Test: Abflachungsversuch/Abflachung Bending Rev Test: Faltversuch/Pliegue/Pliegue Ring Flattening Test: Ring Flattening/Encastement anneau/Prova di Schiacciamento Drift Expanding Test: Aulwettbewerb/Meditari an Mandamentu Anelic	
			req.	result	req.	result	req.	result	req.		result
STEEL GRADE Werkstoff/Matériau Materiale	DIMENSIONS Abmessungen Dimensioni/Dimensioni	HEAT N° Schmelze Coulée/Colla	%C MAX	%Mn MAX	%SI MAX	%P MAX	%S MAX	%NI MIN 10.00 MAX 14.00	%Cr MIN 18.00 MAX 18.00	%Mo MIN 2.00 MAX 3.00	%Ti
TP 316 - 316L	3/4" x 0.156"	YD11-831	0.021	1.160	0.460	0.038	0.005	10.160	18.890	2.080	
100% hydrostatic pressure tested at 90,000 PSI During 30 sec : <b>GOOD</b> Wasserdrukversuch/essai hydraulique/Prova idraulica 100% eddy current test acc to A1016-NFA 46872-SEP 1914-ASTM A450/E28-EN 10993-1-EN 10993-2-EN10246-1 : <b>GOOD</b> Eddy current/Contraint de Foucault/Eddy Current Visual and Dimensional control : Besichtigung und Ausmessung/Controlé Visuel et Dimensionnel/Controllo Visivo e Dimensionale Straightness control : Geradheit Kontrolle/Controlé de rectitude/Controllo rettilineità MARKING: Kennzeichnung/Marcage/Marcatura OK											

FLOW TECHNOLOGY LTD  
 TEST CERTIFICATE  
 VERIFIED TRUE  
 COPY OF ORIGINAL

**MUSSARI**



INSPECTION DEPARTMENT SIGNATURE

Urtara Ops Wienssa/Verstärker  
Vice de l'inspecteur  
Vice control di Qualità

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F10694 - 3/4" Medium Pressure Nipple 4" Long 20K