



**MUSSARI S.r.l.**  
 Trafiliera tubi inox di alta precisione  
 Via Repubblica 11/B - Tel 031/390677 - 031/492476  
 Fax 031/390010  
 22075 LURATE CACCIATO/COMO (ITALY)  
 web-site: www.mussari.com

EN 10204 / 3.1  
 ABNAHMEPRÜFZEUGNIS  
 CERTIFICAT DESSAIS  
 CERTIFICATO DI COLLAUDO

N 1580 - 2014  
 DATE / Datum / Data 7 maggio 2014

CUSTOMER ORDER N° - Bestellungs/Comando Cliente/Ordine Cliente

2014056

Comm. Nr. 657114

DELIVERY BILL - Lieberschein/Buletin de Livraison/Bolla di consegna  
 1186

ASTM A213/269 - HP Tubes

STEEL GRADE Werkstoff/Nuance Materiale	DIMENSIONS Abmessungen Dimensioni	QUANTITY Menge/Quantità/Quantità	YIELD POINT Streckgrenze Limite di snervamento		TENSILE STRENGTH Zugfestigkeit Resistenza a trazione		ELONGATION % Dehnung Allungamento		HARDNESS Härte Durezza		TECHNOLOGICAL TEST Technologische Prüfung Esami Tecnologici Prove tecnologiche	
			MT Nl	PC pz.	LGTH mm	RPO 2% req.	N/mm² result	N/mm² req.	N/mm² result	% LO2 req.		HRB result
TP 316 - 316L	14.28 x 3.175 9/16"x0.312"	1942.90			≥ 517	996.6 986.8	≥ 724	1188.3 1176.7	≥ 22%	22.0 22.0	≥ 95, 98.0	FLARING TEST: =
												FLANGE TEST: =
												FLATTENING TEST: =
												BENDING REV. TEST: =
												RING FLATTENING TEST: =
												DRIFT EXPANDING TEST: =
												REMARKS =

100% hydrostatic pressure tested at 90,000 PSI During 30 sec : GOOD

Visual and Dimensional control : OK

MARKING: Kennzeichnung/Marcatura/Marcatura

MSR ASTM A213/269 TP 316-316L Heat Nr. .... Tubes Size 9/16" x 0.312" O.D. ... x ... mm W.T. C.D. Tubes Suit. For 20,000 Psi Heat Nr. ....

We certify that the material described has been manufactured acc. With above standards and specifications and satisfies the order's requirements.

Signature: *[Handwritten Signature]*  
 Date: 23.3.15

True Copy of Original

INSPECTION DEPARTMENT SIGNATURE  
 M. Viorio  
 Mussari S.r.l.

F10763 - 9/16" MEDIUM PRESSURE NIPPLE 12" LONG 20K 316L

FLOW TECHNOLOGY LTD  
 TEST CERTIFICATE  
 VERIFIED TRUE  
 COPY OF ORIGINAL