



QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

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Cliente / Besteller/Purchaser/Client

VALBRUNA U.K. LTD.
 OLDBURY ROAD
 B70 9BH - WEST BROMWICH B70 9BH GB - GB

Produttore : **ACCIAIERIE VALBRUNA S.P.A.**
 Hersteller/Item/Usine productrice

Stato di fornitura : Hot rolled - Annealed Cold Drawn
 Lieferzustand / Delivery state
 Etat de livraison

Avviso di Spedizione:
 Lieferanzeige/Packing list/B.L. D-VI15018681

Ordine nr: 412046422 CMP
 Bestell
 Your order
 Commande

Tipo di Elaborazione: E+AOD
 Erschmelzungsart/Melting process/Mode d'elaboration

Certificato nr: MEST715153/2015/

Prüfung/Test/Essai

Conferma ordine nr: EI14012886

Werks/Our Order/Ref nr.

Marchio di Fabbrica:

Zeichen des Lieferwerkes
 Trade mark
 Sigle de l'usine productrice

Punzone del Collaudatore:
 Stempel des Werksachverständigen
 Inspector's stamp/Poinçon de l'essayeur



MR

Specifiche:
 Anforderungen / Requirements / Exigences

VAL STOCK 2010 1.4404/316L A,CF
 AMS 5648 L S31600 A
 ASME SA182 2013 S31603 A (1)
 ASME SA276 2013 S31603 A,CF (4)
 ASME SA479 2013 S31603 A (7)
 ASTM A193 2014A B8M CLASS1
 ASTM A276 2013A S31603 A,CF
 ASTM A479 2014 S31600 A
 EN 10088-3 2005 1.4401 A
 EN 10272 2007 1.4404 A
 NACE MR0103 2010 S31603 A
 QQ-S-763 F 316 A,CF

AISI 316
 AMS 5653 H S31603 A,CF
 ASME SA193 2013 B8M CLASS1 (2)
 ASME SA320 2013 B8M CLASS1 (5)
 ASTM A182 2014A S31600 A (8)
 ASTM A262 2013 PRACTICE E
 ASTM A320 2011A B8M CLASS1
 ASTM A479 2014 S31603 A
 EN 10088-3 2005 1.4404 A
 ISO 6892-1 2009
 NACE MR0175 2009 S31600 A (A)
 QQ-S-763 F 316L A,CF

AISI 316L
 ASME SA182 2013 S31600 A (0)
 ASME SA276 2013 S31600 A,CF (3)
 ASME SA479 2013 S31600 A (6)
 ASTM A182 2014A S31603 (9)
 ASTM A276 2013A S31600 A,CF
 ASTM A370 2014
 DIN 17440 96 1.4401 A
 EN 10272 2007 1.4401 A
 NACE MR0103 2010 S31600 A
 NACE MR0175 2009 S31603 A (B)

(0)SEC.II PT.A 2013 EDITION
 (1)SECTION II PT.A 2013 EDITION
 (2)SECTION II PT.A 2013 EDITION
 (4)SECTION II PT.A 2013 EDITION
 (6)SECTION II PT.A 2013 EDITION
 (8)For products machined directly from bar refer also
 (9)For products machined directly from bar refer also
 (A)ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15
 (B)ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15

(0)For products machined directly from bar refer to ASME SA479.
 (1)For products machined directly from bar refer to ASME SA479.
 (3)SEC.II PT.A 2013 EDITION
 (5)SECTION II PT.A 2013 EDITION
 (7)SECTION II PT.A 2013 EDITION
 (8)to ASTM A479.
 (9)to ASTM A479.
 (A)Technical circular 1:2011 Published 2011-06-14
 (B)Technical circular 1:2011 Published 2011-06-14

Qualità: 1.4401/1.4404/316/316L

Werkstoff/Grade/Nuance

Marca: **MVAPML** Tolleranza: h11 - DIN668/EN10278 Punzonatura: 1.4401/4/316/L
 Markenbezeichnung **MAXIVAL** Tolleranza/Allowance/Tolerance Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - mm Abmessungen Dimension Dimension	Lunghezza - mm Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pieces	Peso - KG Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0070	Hexagon	69,850	3010/ 3100	267057		2043,0	435006190

TEST ALLO STATO DI FORNITURA															
Test on delivery condition / Prüfung auf lieferbarem produkt / Test a l'etat de fourniture / Prueba sobre el material así como entregado															
TEST	Provetta/Probetab Specimen/Eprovetta Larg diam Speet. Brose Diam Dicke Width Diam. Thickness Larg. diam. epais mm	°C	Posiz. Saggio Probetage Location Emplacement	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% N/mm2	Snervamento Streckgrenze Yield Stress Limite elastique Rp 1% N/mm2	Resistenza Zugfestigkeit Tensile strength Resistance a traction Rm N/mm2	Allungamento Bruchdehnung Elongation Allongement		Strizione Einschnürung Reduction of area Striction		Resilienza Kerbschlagarbeit Impact Value Resilience KV J			Durezza Härte Hardness Durete HB	
							A5 %	E 4d %	Z %	RA %	100			140 215	
Valori richiesti Anforderungen/Required values Valeurs demandées		min max		207	240	517 700	40	35	-	50	100			140 215	
A	10	20	L	461	523	670	44	47	68	68	185	178	171	211	
B	10	20	L	469	531	675	43	46	67	67	181	184	180	212	

TEST ALLO STATO DI FORNITURA			
Test on delivery condition / Prüfung auf lieferbarem produkt / Test a l'etat de fourniture / Prueba sobre el material así como entregado			
TEST		min	max
A	Grain size for ASTM E112		5

Mechanical properties according to ASTM A370.
 Tensile testing according to EN ISO 6892-1

Vicenza, 01/07/15 VCQ008 (Mod. MCE2) <small>WSP740E267307418E846337086270E840</small>	Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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F10994
 1" NPT Hex Full Coupling 15K

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL