



QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

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Cliente / Besteller/Purchaser/Cliant

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

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

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

Avviso di Spedizione: D-VI15020236  
 Lieferanzelge/Packing list/B.L.

Ordine nr: 504047121 Manchester Stoc  
 Bestell  
 Your order  
 Commande

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

Certificato nr: MEST723340/2015/  
 Prüfung/Test/Essai

Conferma ordine nr: EI15003230  
 Werks/Our Order/Ref nr.

Marchio di Fabbrica:  
 Zeichen des Lieferwerkes  
 Trade mark  
 Sigle de l'usine produire

Punzone del Collaudatore:  
 Stempel des Werkssachverständigen  
 Inspector's stamp/Poinçon de l'assesseur



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 SA479 2013 S31600 A (4)  
 ASTM A182 2014A S31603 (7)  
 ASTM A276 2013A S31603 A,CF  
 ASTM A370 2014 .  
 EN 10088-3 2005 1.4401 A,CF  
 EN<sup>1</sup>10272 2007 1.4404 A,CF  
 NACE MR0103 2010 S31603 A  
 QQ-S-763 F 316 A,CF

AISI 316  
 AMS 5653 H S31603 A,CF  
 ASME SA276 2013 S31600 A,CF (2)  
 ASME SA479 2013 S31603 A (5)  
 ASTM A262 2013 PRACTICE E  
 ASTM A314 2008 S31600  
 ASTM A479 2014 S31600 A  
 EN 10088-3 2005 1.4404 A,CF  
 ISO 6892-1 2009 .  
 NACE MR0175 2009 S31600 A (8)  
 QQ-S-763 F 316L A,CF

AISI 316L  
 ASME SA182 2013 S31600 A (0)  
 ASME SA276 2013 S31603 A,CF (3)  
 ASTM A182 2014A S31600 A (6)  
 ASTM A276 2013A S31600 A,CF  
 ASTM A314 2008 S31603  
 ASTM A479 2014 S31603 A  
 EN 10272 2007 1.4401 A,CF  
 NACE MR0103 2010 S31600 A  
 NACE MR0175 2009 S31603 A (9)

(0)SEC.II PT.A 2013 EDITION  
 (1)SECTION II PT.A 2013 EDITION  
 (2)SEC.II PT.A 2013 EDITION  
 (4)SECTION II PT.A 2013 EDITION  
 (6)For products machined directly from bar refer also  
 (7)For products machined directly from bar refer also  
 (8)ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15  
 (9)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)SECTION II PT.A 2013 EDITION  
 (5)SECTION II PT.A 2013 EDITION  
 (6)to ASTM A479.  
 (7)to ASTM A479.  
 (8)Technical circular 1:2011 Published 2011-06-14  
 (9)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  
 Brand/Nuance

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.
0010	Hexagon	30,000	3150/ 3170	266756		1079,0	425807380

**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

1) L=longitudinale/längs, T=trasversale/quer, Q=Tangenziale/tangential

TEST	Provetta/Probestab Specimen/Eprouvette Larg diam Spesa. Breite Diam. Dicke Width Diam. Thickness Larg. diam. epais mm	°C	Posiz. Saggio Probenlage 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 à traction Rm N/mm2	Allungamento Bruchdehnung Elongation Allongement		Strizione Einschnürung Reduction of area Striction		Resilienza Kerbschlagarbeit Impact Value Resilience KV J	Durezza Haerte Hardness Durete HB		
							A5 %	E 4d %	Z %	RA %				
	Valori richiesti Anforderungen/Required values Valeurs demandées	min		207	235	517	20	30	-	50	100	140		
		max				900						235		
A	10	20	L	449	537	646	46	48	67	67	186	194	195	224

**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
B Grain size for ASTM E112		6

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

F10695  
 3/4" Medium Pressure Glands

**FLOW TECHNOLOGY LTD**  
**TEST CERTIFICATE**  
**VERIFIED TRUE**  
**COPY OF ORIGINAL**