

VALSTEAM ADCA ENGINEERING S.A.

Zona Ind. da Guia Pav.14 - Brejo
 3105-467 GUIA PB
 PORTUGAL
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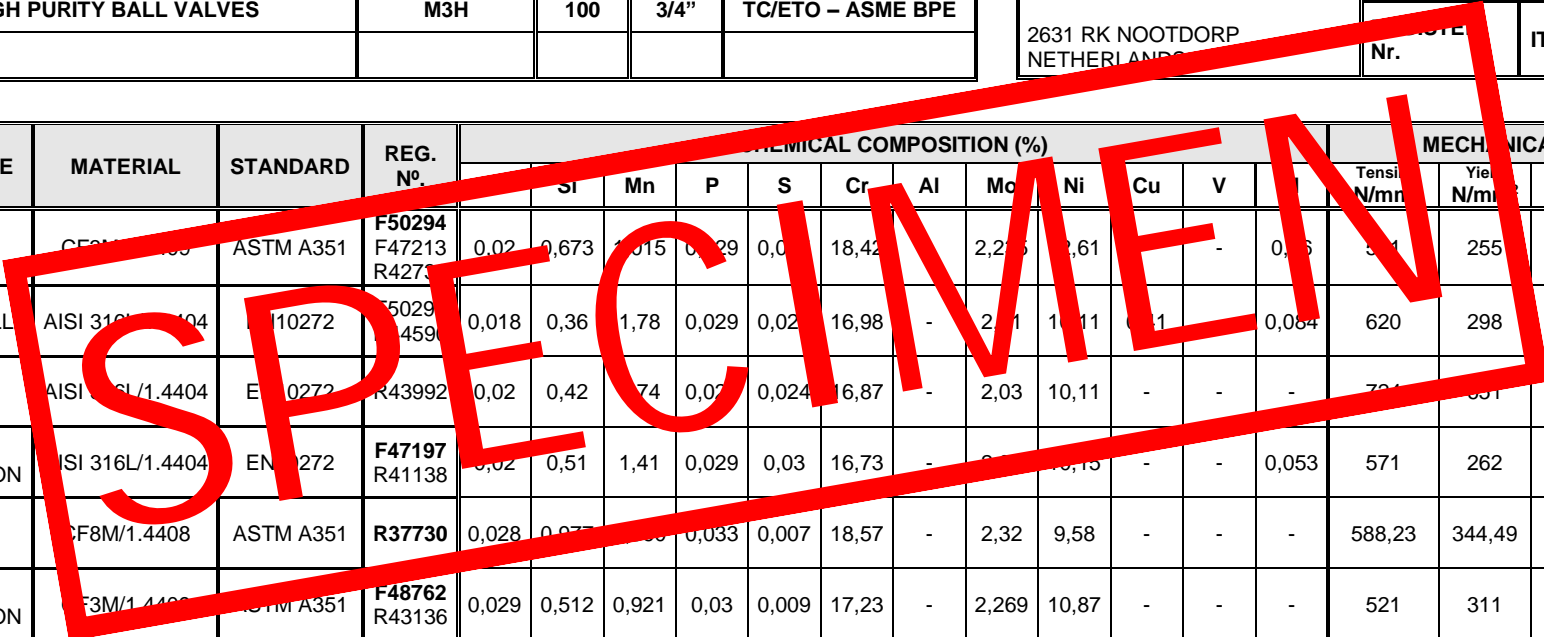
SPECIFIC INSPECTION CERTIFICATE Nr. 4040

CHEMICAL COMPOSITION

EQUIPMENT SUPPLIED						
ITEM	QTY.	DESCRIPTION	MODEL	PN	DN	CONNECTIONS
01	28	HIGH PURITY BALL VALVES	M3H	100	3/4"	TC/ETO – ASME BPE

BUYER:	PURCHASE ORDER Nr.	11453
ROMYNOX BV KOPERSLAGER 3	INTERNAL REFERENCE	VE.68153
2631 RK NOOTDORP NETHERLANDS	ITEM Nr.	ITEM01: 117924/23

ITEM	QTY.	PART NAME	MATERIAL	STANDARD	REG. No.	CHEMICAL COMPOSITION (%)										MECHANICAL TESTS					
						Si	Mn	P	S	Cr	Al	Mo	Ni	Cu	V	Tensile N/mm ²	Yield N/mm ²	Elong. %	R. of area %		
01	28	BODY	CF8M/1.4408	ASTM A351	F50294 F47213 R4273	0,02	0,673	0,015	0,029	0,0	18,42	-	2,265	10,61	-	-	0,05	571	255	38,16	-
01	28	VALVE BALL	AISI 316L/1.4404	EN 10272	F50294 F459	0,018	0,36	1,78	0,029	0,02	16,98	-	2,21	10,11	0,01	-	0,064	620	298	54,1	77,5
01	28	STEM	AISI 316L/1.4404	EN 10272	R43992	0,02	0,42	0,74	0,02	0,024	16,87	-	2,03	10,11	-	-	-	721	331	40	-
01	28	ETO CONNECTION	AISI 316L/1.4404	EN 10272	F47197 R41138	0,02	0,51	1,41	0,029	0,03	16,73	-	2,265	10,15	-	-	0,053	571	262	54	76
01	28	FLANGE	CF8M/1.4408	ASTM A351	R37730	0,028	0,673	0,015	0,033	0,007	18,57	-	2,32	9,58	-	-	-	588,23	344,49	48,40	-
01	28	TC CONNECTION	CF3M/1.4408	ASTM A351	F48762 R43136	0,029	0,512	0,921	0,03	0,009	17,23	-	2,269	10,87	-	-	-	521	311	41	-
01	28	DRAIN FERRULE	AISI 316L/1.4404	ASME BPE	F50294 F43740 R41134	0,01	0,45	1,51	0,029	0,026	16,79	-	2,05	10,06	0,57	-	0,055	633	457	45	67



The sub suppliers' EN10204 3.1 certificates certified the above entries

OBSERVATIONS	QUALITY CONTROL
	Works Inspector <i>Daniel Gregório</i>
The register number in bold correspond to heat number marked on the equipment Intergranular Corrosion test according to ASTM A-262 PRACTICE E	 Date 14 / 04 / 2023
IDENTIFICATION MARKS:	

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FINAL TESTING

EQUIPMENT SUPPLIED						
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2631 RK NOOTDORP NETHERLANDS	ITEM Nr.	ITEM01: 117924/23

FINAL TESTING				
TEST PROCEDURE ACCORDING TO (see table 1) AA, AB, AC, AD, AE, AF, AH, AP, AR, BO, DP				
FURTHER TESTS:		TEST SPECIFICATIONS: EN12266-		
RESULT OF TESTS:		Specified requirements are satisfied		
TEST RESULTS				
ITEM	01	02		Quality Control
ORIFICE	PN 100		PN	Works Inspector
HYDROSTATIC BODY TEST	bar	bar	bar	Daniel Gregório
AIR BODY TEST	6 bar	bar	bar	
HYDROSTATIC SEAT TEST	bar	bar	bar	
SEAT TEST	6 bar	bar	bar	

SPECIMEN

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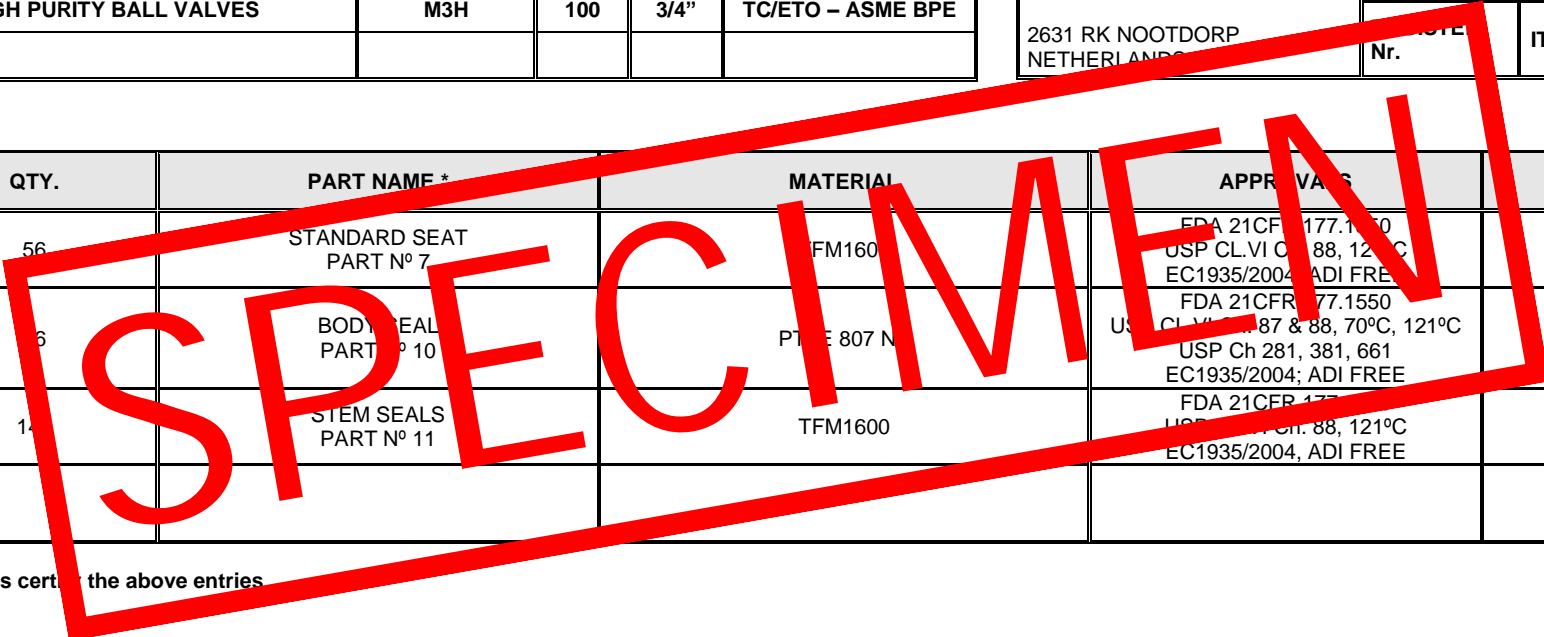
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ELASTOMERS


EQUIPMENT SUPPLIED						
ITEM	QTY.	DESCRIPTION	MODEL	PN	DN	CONNECTIONS
01	28	HIGH PURITY BALL VALVES	M3H	100	3/4"	TC/ETO – ASME BPE

BUYER:	PURCHASE ORDER Nr.	11453
ROMYNOX BV KOPERSLAGER 3	INTERNAL REFERENCE	VE.68153
2631 RK NOOTDORP NETHERLANDS	ITEM Nr.	ITEM01: 117924/23

ITEM	QTY.	PART NAME *	MATERIAL	APPROVALS	REG. Nº.
01	56	STANDARD SEAT PART Nº 7	TFM1600	FDA 21CFR 177.1550 USP CL.VI Ch. 88, 121°C EC1935/2004; ADI FREE	F45692 R41845
01	6	BODY SEALS PART Nº 10	PTFE 807 N	FDA 21CFR 177.1550 USP CL.VI Ch. 87 & 88, 70°C, 121°C USP Ch 281, 381, 661 EC1935/2004; ADI FREE	R42885
01	14	STEM SEALS PART Nº 11	TFM1600	FDA 21CFR 177.1550 USP CL.VI Ch. 88, 121°C EC1935/2004; ADI FREE	R40784



The sub suppliers' declarations certify the above entries

OBSERVATIONS We hereby certify that the supplies detailed hereon are in accordance with the requirements of the above purchase order and unless otherwise stated, conform in all aspects to the agreed material specifications detailed above. * Position Number and designation in accordance to drawing found in IMI (Installation and Maintenance Instructions) of equipment supplied. The sub suppliers' certificates certified the above entries.	QUALITY CONTROL Works Inspector Daniel Gregório  VALSTEAM ENGENHEIROS PORTUGAL QUALITY CONTROL Date 14 / 04 / 2023
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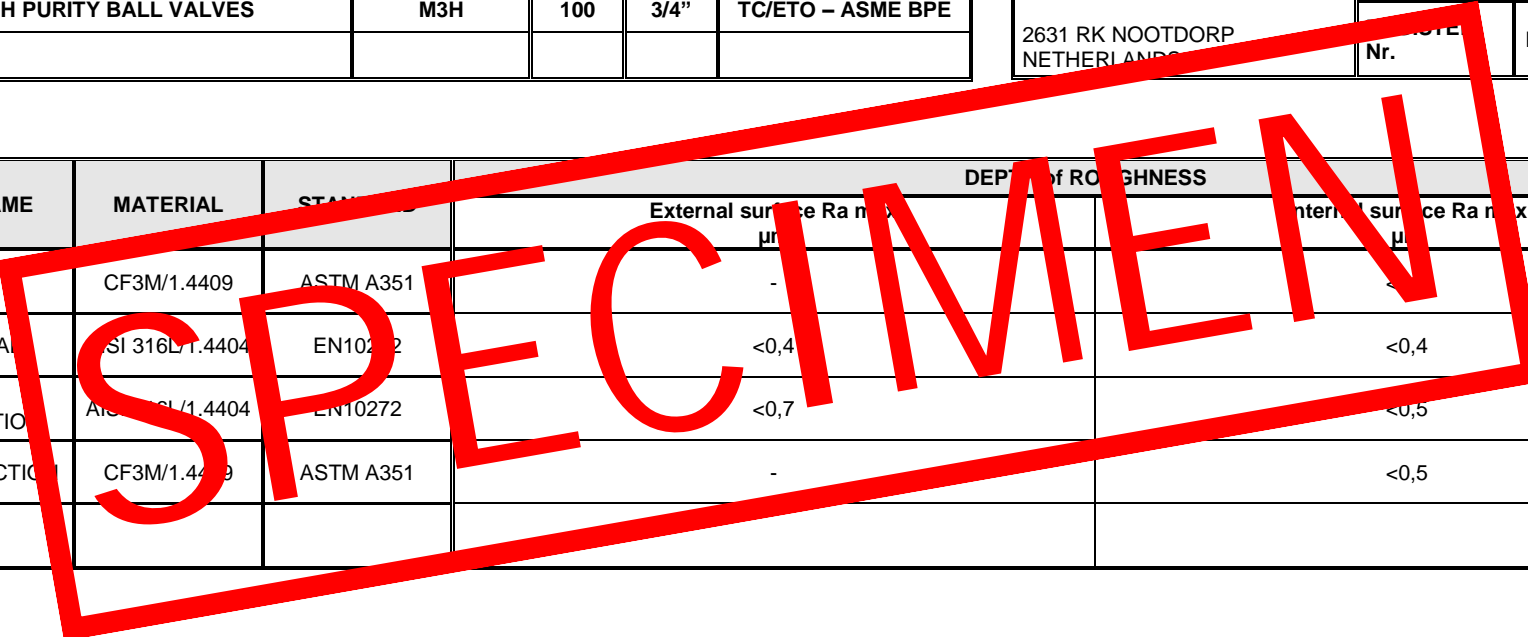
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POLISH FINISHING

EQUIPMENT SUPPLIED						
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BUYER:	PURCHASE ORDER Nr.	11453
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2631 RK NOOTDORP NETHERLANDS	ITEM Nr.	ITEM01: 117924/23

ITEM	QTY.	PART NAME	MATERIAL	STANDARD	DEPTH of ROUGHNESS	
					External surface Ra max µm	Internal surface Ra max µm
01	28	BODY	CF3M/1.4409	ASTM A351	-	<0,4
01	28	VALVE BALL	SI 316L/1.4404	EN10272	<0,4	<0,4
01	28	ETO CONNECTION	AISI 316L/1.4404	EN10272	<0,7	<0,5
01	28	TC CONNECTION	CF3M/1.4409	ASTM A351	-	<0,5



QUALITY CONTROL		
INSPECTION		RESULTS
CONTROL OF DIMENSIONS		SATISFACTORY
VISUAL INSPECTION		SATISFACTORY
OBSERVATIONS	MECHANICAL FINISHING	

Works Inspector
Daniel Gregorio

 Date 14/04/2023

1. TECHNICAL DELIVERY CONDITIONS FOR VALVES

SYMBOL	TESTINGS / PROCEDURE
A	Visual inspection tests:
AA	Checking of order specifications
AB	Inspection of type and fittings
AC	Inspection of marking
AD	Dimensional check
AE	Surface inspection
AF	Inspection of connecting surfaces
AH	Spectometric inspection
AP	Visual inspection
AR	Checking of material records
AS	Visual welding inspection
B	Leak and pressure tests:
BQ	Leak test on the closure with air - 6 bar - according to EN 12266-1 / EN 26948
BN	Leak test on the closure with water - 1.5 x PN - according to EN 12266-1
BP	Leak test in packaged assemblies
C	Non-destructive material testing
CA	X-ray testing
CC	Crack testing using dye penetration method
D	Strength test:
BQ	Leak test on the housing with water - 1.5 x PN - according to EN12266-1
DP	Air body test
DH	Hydrostatic body test according to PED
E	Calibrations:
EV	Safety valve calibration
F	Functional tests
FF	Testing of operational functioning

SPECIMEN