



HP Valves Oldenzaal BV

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Medium & high-pressure valves in
accordance with ASME, API, BS & DIN

COVERPAGE TO INSPECTION / TEST CERTIFICATE

Customer : CMI (HRSG + Energy Services)
Project : Yajva SBV
Customer P/O no : 203/2010/900588
Shop order no : 2010 0006
Item no : 157 / 000
Quantity : 2 pcs

KKS No : 15LCA10AA168 15LCA10AA169

Bank ABN-AMRO SWIFT-address ABNANL2A
EUR-account 59.55.41.437 IBAN-code NL88ABNA0595541437
USD-account 57.60.74.780
Trade register Enschede 060.567.50
VAT no NL 008671242B01

Member of Indutrade AB





INSPECTION / TEST CERTIFICATE

(EN 10204 TYPE 3.1)

Client	HP VALVES	P.O. No.	P100042/20100006
Report No.	E1003E05-01-11	Date of Issue	2010. 07. 07
Item Description : Forged Steel GLOBE Valves Class 800# SA182-F11 / 13Cr HF SW			
Tag No.		Size	1" Q'ty 2 Pcs
PRESSURE AND LEAK TEST(API 598 2004 Edition)			Result Pass
Hydraulic Test	Shell : 206.8 bar Seat/Back Seat: 151.9 bar	Pneumatic Test	Seat/Back Seat : N/A bar
Dimension Inspection :	GOOD	Visual Inspection :	GOOD
Function Test :		GOOD	

MATERIAL SPECIFICATION(ASME 2007 sect. II part A)

Product Name	Material	ASTM/ASME	Heat No.	Lot No.	Remarks
Body	Forged Steel	SA182-F11 (CL.2)	A23764	V51	Normalized (min 900 °C) & Tempered (min 620 °C)
			261869	T95	
Bonnet	Forged Steel	SA182-F11 (CL.2)	S83985	V28	Normalized (min 900 °C) & Tempered (min 620 °C)
Seat	Stellite #6				Integral Seat Stellite #6 HF Hardened (Q.T)
Disc	Stainless Steel	A217-CA15	4S12/N3		
Stem	Stainless Steel	A276-410	S84141		

CHEMICAL COMPOSITION

Element	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Nb	N	Ti
Heat No.	min.	0.10	0.30			0.50	1.00	0.44					
	max.	0.20	0.80	0.040	0.040	1.00	1.50	0.65					
A23764	0.16	0.69	0.013	0.002	0.65	-	1.29	0.48	-	-	-	-	-
261869	0.17	0.54	0.021	0.007	0.53	-	1.25	0.45	-	-	-	-	-
S83985	0.14	0.66	0.013	0.010	0.54	-	1.11	0.47	-	-	-	-	-

MECHANICAL PROPERTIES(0.2% Offset)

Item	Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Reduction of Area (%)	Hardness (HB)	Remarks
Lot No. S.T.D	min. 485.0	min. 275.0	min. 20.0	min. 30.0	143 to 207	
V51	586.1	354.8	36.5	49.9	178,181	
T95	622.4	409.7	41.5	49.6	177,181	
V28	570.4	344.0	37.6	50.3	177,179	

Notes 1. These Standards for inspection conform to ASME B16.34/API 598(2004 Edition).

2. Indicator Installed.

HP VALVES Medium & high pressure valves acc. ANSI, API, BS & DIN
Your ref. : 203/2010/gc0588
Our ref. : 2010 0006 Pos: 15/000
Qty. : 2 pcs

We hereby certify that the result mentioned above are true and correct in every details.

Witnessed/Reviewed by
HP VALVES BV
QUALITY CONTROL
F. WOLBERS

Q.A Manager

C.K. Lee