



HP Valves Oldenzaal BV

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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 : 151 / 000
Quantity : 30 pcs

KKS No :

15HAD50AA131	15HAD80AA150	15HAJ50AA101
15HAD50AA132	15HAD80AA151	15HAJ50AA102
15HAD50AA144	15HAH50AA152	15HAJ50AA103
15HAD50AA145	15HAH50AA153	15HAJ50AA104
15HAD50AA150	15HAH50AA154	15HAN10AA101
15HAD50AA151	15HAH50AA155	15HAN10AA102
15HAD80AA134	15HAH80AA107	15LBA80AA117
15HAD80AA135	15HAH80AA108	15LBA80AA118
15HAD80AA144	15HAH80AA109	15LBA80AA119
15HAD80AA145	15HAH80AA110	15LBA80AA120

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



INSPECTION / TEST CERTIFICATE

(EN 10204 TYPE 3.1)

Client	HP VALVES	P.O. No.	P100042/20100006
Report No.	E1003E05-01-1	Date of Issue	2010. 07. 07
Item Description : Forged Steel GATE Valves Class 800# SA105N / 13Cr HF SW			
Tag No.		Size	1" Q'ty 30 Pcs

PRESSURE AND LEAK TEST(API 598 2004 Edition)				Result	Pass
Hydraulic	Shell : 205.8 bar	Pneumatic	Seat/Back Seat : 5.9 bar		
Test	Seat/Back Seat: N/A bar	Test			
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	SA105N	S89465	1CC	Normalized (843°C ~ 927°C)
Bonnet	Forged Steel	SA105N	S87138	E27	Normalized (843°C ~ 927°C)
			185399	E12	
Seat Ring	Stainless Steel	A276-410	S86696		Stellite #6 HF
Wedge	Stainless Steel	A217-CA15	4S11/N3		Stellite #6 HF
Stem	Stainless Steel	A276-410	S84141		Hardened (Q.T)

CHEMICAL COMPOSITION

Element	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Nb	N	Ti
min.		0.60			0.10								
Heat No. max.	0.35	1.05	0.035	0.040	0.35	0.40	0.30	0.12	0.40	0.08	0.020		
S89465	0.19	0.80	0.016	0.013	0.28	0.07	0.19	0.02	0.13	0.002	0.002	-	-
S87138	0.19	0.84	0.014	0.009	0.28	0.11	0.20	0.03	0.16	0.001	0.001	-	-
185399	0.19	0.95	0.017	0.006	0.20	0.05	0.07	0.02	0.08	0.003	0.002	-	-

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. 250.0	min. 22.0	min. 30.0	max. 187	
1CC	550.8	317.6	37.4	57.5	162,167	
E27	577.3	354.8	30.6	49.5	167,171	
E12	571.4	322.5	33.1	52.4	164,170	

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. : 203/2010/900538	
Our ref. : 20100006	Pos: 151/000
Qty. : 30 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