



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 : 152 / 000  
Quantity : 15 pcs

KKS No :  
15HAD50AA133 15HAD50AA153 15HAD80AA147  
15HAD50AA134 15HAD50AA161 15HAD80AA152  
15HAD50AA146 15HAD80AA136 15HAD80AA153  
15HAD50AA147 15HAD80AA137 15HAN10AA103  
15HAD50AA152 15HAD80AA146 15HAN10AA104



# INSPECTION / TEST CERTIFICATE

(EN 10204 TYPE 3.1)

Client	HP VALVES	P.O. No.	P100042/20100006
Report No.	E1003E05-01-3	Date of Issue	2010. 07. 07
Item Description : Forged Steel GATE Valves Class 800# SA105N / 13Cr HF SW			
Tag No.		Size	1-1/2" Q'ty 15 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	S84107	F00	Normalized (843°C ~ 927°C)
Bonnet	Forged Steel	SA105N	S87820	1BU	Normalized (843°C ~ 927°C)
Seat Ring	Stainless Steel	A276-410	S84659		Stellite #6 HF
Wedge	Stainless Steel	A217-CA15	4S11/N4		Stellite #6 HF
Stem	Stainless Steel	A276-410	S87308		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		
S84107	0.18	0.77	0.012	0.009	0.31	0.06	0.26	0.02	0.13	0.001	0.003	-	-
S87820	0.18	0.81	0.009	0.011	0.27	0.08	0.19	0.03	0.16	0.001	0.002	-	-

## MECHANICAL PROPERTIES(0.2% Offset)

Item	Tensile Strength (N/mm <sup>2</sup> )	Yield Strength (N/mm <sup>2</sup> )	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	
F00	569.4	290.1	38.4	57.4	163,169	
1BU	495.9	304.8	38.9	56.8	167,170	

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.: 203/2010/900588  
Our ref.: 2010 0006 Pos: 152/000  
Qty.: 15 pcs

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

Witnessed/Reviewed by  
HP VALVES BY  
QUALITY CONTROL  
E. WOLBERS

Q.A Manager

C.K. Lee