



HP Valves Oldenzaal BV

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## COVERPAGE TO INSPECTION / TEST CERTIFICATE

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

Customer : CMI (HRSG + Energy Services)  
Project : Yajva SBV  
Customer P/O no : 203/2010/900588  
Shop order no : 2010 0006  
Item no : 154 / 000  
Quantity : 6 pcs

KKS No :  
15HNA10AA105 15HNA10AA107 15HNE10AA103  
15HNA10AA106 15HNE10AA102 15HNE10AA104

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.	E1003E05-01-6	Date of Issue	2010. 07. 07
Item Description : Forged Steel GLOBE Valves Class 800# SA105N / 13Cr HF SW			
Tag No.		Size	1/2" Q'ty 6 Pcs
PRESSURE AND LEAK TEST(API 598 2004 Edition)			Result Pass
Hydraulic Test	Shell : 205.8 bar Seat/Back Seat: 149.9 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	SA105N	S88265	V42	Normalized (843°C~927°C)
Bonnet	Forged Steel	SA105N	S87820	X07	Normalized (843°C~927°C)
Seat Disc Stem	Stellite #6 Stainless Steel Stainless Steel	A217-CA15 A276-410	4S12/N1 S84141		Integral Seat Stellite #6 HF 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		
S88265	0.19	0.79	0.009	0.013	0.29	0.04	0.19	0.01	0.12	0.001	0.002	-	-
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	
V42	527.3	270.5	37.4	59.8	161,167	
X07	506.7	298.9	30.3	59.2	162,167	

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. : 203/2010/000588	
Our ref. : 2010 0006	Pos: 154/000
Qty. : 6 pcs	

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

Witnessed/Reviewed by

HP VALVES BV  
QUALITY CONTROL  
E. J. W. J. B. S.

Q.A Manager

E.K. Lee