



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 : 155 / 000
Quantity : 26 pcs

KKS No :
15HAC50AA114 15HAD80AA160 15HAH80AA114 15LBA80AA115
15HAC50AA115 15HAD80AA167 15HAH80AA116 15LCA10AA160
15HAD50AA159 15HAD80AA168 15HAJ50AA118 15LCA10AA161
15HAD50AA160 15HAH50AA156 15HAJ50AA119 15LCA10AA178
15HAD50AA167 15HAH50AA157 15LAB50AA123 15LCA10AA179
15HAD50AA168 15HAH50AA164 15LAB50AA128
15HAD80AA159 15HAH50AA165 15LBA80AA101



INSPECTION / TEST CERTIFICATE

(EN 10204 TYPE 3.1)

Client	HP VALVES	P.O. No.	P100042/20100006		
Report No.	E1003E05-01-7	Date of Issue	2010. 07. 07		
Item Description : Forged Steel GLOBE Valves Class 800# SA105N / 13Cr HF SW					
Tag No.		Size	3/4"	Q'ty	26 Pcs

PRESSURE AND LEAK TEST(API 598 2004 Edition)				Result	Pass
Hydraulic	Shell	205.8 bar	Pneumatic	Seat/Back Seat	N/A bar
Test	Seat/Back Seat:	149.9 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	S82709		U38		Normalized (843°C ~ 927°C)
			190030		U77		
Bonnet	Forged Steel	SA105N	S82709	S88265	U38	V42	Normalized (843°C ~ 927°C)
			S87820		X07		
Seat	Stellite #6						Integral Seat Stellite #6 HF Hardened (Q.T)
Disc	Stainless Steel	A217-CA15	4S12/N2				
Stem	Stainless Steel	A276-410	S84141				

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		
S82709	0.23	0.94	0.010	0.010	0.29	0.06	0.10	0.03	0.15	0.001	0.000	-	-
190030	0.19	0.88	0.026	0.015	0.21	0.06	0.09	0.02	0.14	0.003	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	-	-
S88265	0.19	0.79	0.009	0.013	0.29	0.04	0.19	0.01	0.12	0.001	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	
U38	608.6	437.1	41.8	50.9	167,171	
U77	564.5	399.9	41.1	57.5	167,170	
X07	506.7	298.9	30.3	59.2	162,167	
V42	527.3	270.5	37.4	59.8	161,167	

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. : 203/2010/900588
Our ref. : 2010 0006 Pos: 155/000
Qty. : 26 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. WOLBERS

Q.A Manager

C.K. Lee

FORM : QAP-1001-05(Rev.1)

ILSHIN VALVE CO., LTD.

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