



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 : 156 / 000
Quantity : 201 pcs

KKS No

15HAC50AA104	15HAD50AA154	15HAD80AA165	15HAJ50AA111	15LAB50AA125	15LCA10AA105
15HAC50AA105	15HAD50AA155	15HAD80AA166	15HAJ50AA112	15LAB50AA126	15LCA10AA106
15HAD50AA105	15HAD80AA105	15HAH50AA101	15HAJ50AA113	15LAB50AA127	15LCA10AA107
15HAD50AA106	15HAD80AA106	15HAH50AA103	15HAJ50AA114	15LAF50AA110	15LCA10AA108
15HAD50AA107	15HAD80AA107	15HAH50AA105	15HAJ50AA115	15LAF50AA111	15LCA10AA119
15HAD50AA108	15HAD80AA108	15HAH50AA106	15HAJ50AA117	15LAF50AA112	15LCA10AA120
15HAD50AA109	15HAD80AA109	15HAH50AA111	15HAJ50AA145	15LAF50AA113	15LCA10AA121
15HAD50AA110	15HAD80AA110	15HAH50AA112	15HAN10AA105	15LAF50AA114	15LCA10AA122
15HAD50AA115	15HAD80AA118	15HAH50AA113	15HAN10AA106	15LAF50AA115	15LCA10AA123
15HAD50AA116	15HAD80AA119	15HAH50AA114	15HAN10AA107	15LAF50AA116	15LCA10AA124
15HAD50AA117	15HAD80AA120	15HAH50AA115	15HAN10AA108	15LAF50AA117	15LCA10AA125
15HAD50AA118	15HAD80AA121	15HAH50AA116	15HAN10AA109	15LAF50AA119	15LCA10AA129
15HAD50AA119	15HAD80AA122	15HAH50AA117	15HAN10AA110	15LAF50AA120	15LCA10AA130
15HAD50AA120	15HAD80AA123	15HAH50AA118	15HAN10AA127	15LAF50AA121	15LCA10AA131
15HAD50AA121	15HAD80AA124	15HAH50AA123	15HAN10AA128	15LAF50AA122	15LCA10AA132
15HAD50AA122	15HAD80AA125	15HAH50AA124	15HNA10AA101	15LAF50AA130	15LCA10AA148
15HAD50AA123	15HAD80AA126	15HAH50AA125	Spare Valves	15LAF50AA132	15LCA10AA149
15HAD50AA124	15HAD80AA127	15HAH50AA126	Spare Valves	15LAF50AA133	15LCA10AA150
15HAD50AA125	15HAD80AA128	15HAH50AA160	15LAA10AA103	15LAF50AA134	15LCA10AA151
15HAD50AA126	15HAD80AA129	15HAH50AA161	15LAA10AA104	15LAF50AA135	15LCA10AA164
15HAD50AA127	15HAD80AA130	15HAH50AA162	15LAB50AA105	15LBA80AA102	15LCA10AA165
15HAD50AA128	15HAD80AA131	15HAH50AA163	15LAB50AA106	15LBA80AA103	15LCA10AA166
15HAD50AA129	15HAD80AA132	15HAH50AA166	15LAB50AA107	15LBA80AA107	15LCA10AA167
15HAD50AA130	15HAD80AA133	15HAH50AA167	15LAB50AA108	15LBA80AA108	15LCA10AA170
15HAD50AA135	15HAD80AA138	15HAH80AA101	15LAB50AA112	15LBA80AA109	15LCA10AA171
15HAD50AA136	15HAD80AA139	15HAH80AA103	15LAB50AA113	15LBA80AA110	15LCA10AA172
15HAD50AA138	15HAD80AA140	15HAH80AA105	15LAB50AA114	15LBA80AA111	15LCA10AA173
15HAD50AA139	15HAD80AA141	15HAH80AA106	15LAB50AA115	15LBA80AA112	15LCA10AA174
15HAD50AA140	15HAD80AA142	15HAH80AA111	15LAB50AA116	15LBA80AA113	15LCA10AA175
15HAD50AA141	15HAD80AA143	15HAH80AA117	15LAB50AA117	15LBA80AA114	15LCA10AA176
15HAD50AA142	15HAD80AA148	15HAJ50AA105	15LAB50AA119	15LBA80AA123	15LCA10AA177
15HAD50AA143	15HAD80AA149	15HAJ50AA108	15LAB50AA120	15LBA80AA124	
15HAD50AA148	15HAD80AA154	15HAJ50AA109	15LAB50AA122	15LBC50AA106	
15HAD50AA149	15HAD80AA155	15HAJ50AA110	15LAB50AA124	15LBC50AA107	





INSPECTION / TEST CERTIFICATE

(EN 10204 TYPE 3.1)

Client	HP VALVES	P.O. No.	P100042/20100006
Report No.	E1003E05-01-9	Date of Issue	2010. 07. 07
Item Description : Forged Steel GLOBE Valves Class 800# SA105N / 13Cr HF SW			
Tag No.		Size	1" Q'ty 201 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	S88373	E23	Normalized (843℃~ 927℃)
			S74800	U02	
Bonnet	Forged Steel	SA105N	S87138	E27	Normalized (843℃~ 927℃)
			S87821	1CE	
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
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		
S88373	0.18	0.75	0.008	0.009	0.27	0.05	0.19	0.01	0.14	0.001	0.003	-	-
S74800	0.18	0.95	0.014	0.008	0.22	0.04	0.06	0.02	0.11	0.001	0.001	-	-
S87138	0.19	0.84	0.014	0.009	0.28	0.11	0.20	0.03	0.16	0.001	0.001	-	-
S87821	0.18	0.74	0.010	0.013	0.28	0.07	0.18	0.02	0.13	0.001	0.001	-	-

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	
E23	513.6	299.9	36.2	54.7	167,171	
U02	552.8	383.2	35.7	44.8	168,170	
E27	577.3	354.8	30.6	49.5	167,171	
1CE	538.1	310.7	33.5	60.4	165-170	

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: 156/00
Qty. : 201 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
02/07/10

Q.A Manager

C.K. Lee