

**Certificate/Serial/Job No:**

YE113

*Quality Department: John Ho*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
84	6	300	/ 103062	DSI 23XUF	GATE				4/5/2012

<b>Pressure Test:</b> API598 <input checked="" type="checkbox"/> <i>Satisfactory</i>	Shell Pressure : 1125 psi 7756.6 kPa	BackSeat : 825 psi 5688.2 kPa	Seat Pressure 825 psi 5688.17 kPa	Seat Air Pressure 80 psi 551.58 kPa
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Part	Specif.	HEAT#	Chemical Composition [%]													Mechanical Properties									
			C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	W	Nb	Al	N	Ceq	Tensile [ksi] [MPa]	Yield [ksi] [MPa]	Elong [%]	Reduc [%]	Hard [HB]	Ch.1 [J]	Ch.2 [J]	Ch.3 [J]

YE113 / 73

BODY	ASTM A216 WCB-2008	A 12077	0.200	0.45	0.87	0.025	0.017	0.029	0.054	0.001	0.041	0.005				0.025	0.36	72.79	43.50	31	58	151							N
BONNET	ASTM A216 WCB-2008	W 16385	0.208	0.46	0.97	0.032	0.014	0.128	0.130	0.013	0.037	0.010					0.41	501.87	299.9	28	52	165							N
WEDGE	ASTM A216 WCB-2008	E 3112	0.20	0.46	0.88	0.018	0.008	0.041	0.07	0.013	0.024	0.003					0.37	615.84	415.9	31	40	158							N
																		85.12	41.91	31	40	158							
																		586.88	289										

YE113 / 74

BODY	ASTM A216 WCB-2008	W 16366	0.207	0.40	0.98	0.025	0.012	0.041	0.043	0.006	0.061	0.008					0.39	79.17	50.17	29	57	166							N
BONNET	ASTM A216 WCB-2008	W 17182	0.199	0.43	0.94	0.027	0.015	0.026	0.036	0.004	0.033	0.007				0.045	0.38	545.86	345.9	29	54	167							N
WEDGE	ASTM A216 WCB-2008	E 3117	0.22	0.43	0.84	0.020	0.010	0.026	0.06	0.009	0.032	0.004						83.96	54.96	29	54	167							N
																		578.88	378.9	30	40	160							N
																		85.41	41.91	30	40	160							
																		588.88	289										

YE113 / 75

BODY	ASTM A216 WCB-2008	W 16418	0.196	0.41	0.92	0.030	0.011	0.031	0.035	0.004	0.033	0.006					0.36	80.91	52.06	29	53	151							N
BONNET	ASTM A216 WCB-2008	W 16391	0.203	0.50	0.95	0.033	0.011	0.050	0.055	0.006	0.043	0.008					0.38	557.85	358.9	29	56	170							N
WEDGE	ASTM A216 WCB-2008	E 3112	0.20	0.46	0.88	0.018	0.008	0.041	0.07	0.013	0.024	0.003					0.37	80.91	52.06	29	56	170							N
																		557.85	358.9	31	40	158							N
																		85.12	41.91	31	40	158							
																		586.88	289										

YE113 / 76

BODY	ASTM A216 WCB-2008	W 16223	0.206	0.45	0.93	0.032	0.012	0.035	0.065	0.002	0.025	0.006					0.38	86.86	59.16	29	54	172							N
BONNET	ASTM A216 WCB-2008	W 16887	0.197	0.43	0.882	0.026	0.012	0.041	0.036	0.004	0.033	0.005					0.36	598.88	407.9	29	55	159							N
WEDGE	ASTM A216 WCB-2008	E 3112	0.20	0.46	0.88	0.018	0.008	0.041	0.07	0.013	0.024	0.003					0.37	78.59	51.48	29	55	159							N
																		541.86	354.9	31	40	158							N
																		85.12	41.91	31	40	158							
																		586.88	289										

YE113 / 77

BODY	ASTM A216 WCB-2008	A 12089	0.210	0.39	0.92	0.026	0.012	0.025	0.055	0.012	0.036	0.004	0.025	0.38	74.24	44.37	30	56	150		N
															511.87	305.9					
BONNET	ASTM A216 WCB-2008	W 16886	0.195	0.50	0.907	0.025	0.015	0.029	0.035	0.003	0.037	0.005		0.36	76.27	52.06	29	58	163		N
															525.86	358.9					
WEDGE	ASTM A216 WCB-2008	E 3095	0.20	0.44	0.84	0.022	0.009	0.026	0.04	0.005	0.029	0.007		0.35	84.83	40.60	30	45	157		N
															584.88	279.9					

**YE113 / 78**

BODY	ASTM A216 WCB-2008	A 12087	0.210	0.43	0.9	0.028	0.011	0.024	0.045	0.001	0.033	0.004	0.038	0.37	73.08	43.21	30	56	152		N
															503.87	297.9					
BONNET	ASTM A216 WCB-2008	W 16512	0.192	0.41	0.92	0.034	0.008	0.031	0.034	0.004	0.031	0.007		0.36	78.59	49.59	29	55	163		N
															541.86	341.9					
WEDGE	ASTM A216 WCB-2008	E 3112	0.20	0.46	0.88	0.018	0.008	0.041	0.07	0.013	0.024	0.003		0.37	85.12	41.91	31	40	158		N
															586.88	289					

**YE113 / 79**

BODY	ASTM A216 WCB-2008	A 12072	0.200	0.44	0.89	0.026	0.017	0.028	0.046	0.003	0.026	0.004	0.031	0.36	73.23	43.50	30	56	150		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	W 16882	0.196	0.40	0.867	0.021	0.008	0.036	0.036	0.002	0.035	0.007		0.36	81.49	52.06	31	58	169		N
															561.85	358.9					
WEDGE	ASTM A216 WCB-2008	E 3064	0.23	0.53	0.92	0.015	0.012	0.040	0.15	0.009	0.017	0.001		0.42	84.10	41.18	32	48	159		N
															579.85	283.9					

**YE113 / 80**

BODY	ASTM A216 WCB-2008	A 12086	0.200	0.44	0.89	0.027	0.016	0.026	0.049	0.001	0.04	0.004	0.006	0.36	73.23	43.50	31	58	150		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	W 16441	0.204	0.47	0.94	0.035	0.013	0.039	0.050	0.005	0.030	0.007		0.38	80.33	51.48	29	53	162		N
															553.86	354.9					
WEDGE	ASTM A216 WCB-2008	E 3111	0.22	0.49	0.76	0.020	0.008	0.043	0.20	0.018	0.027	0.005		0.40	84.83	41.76	31	42	160		N
															584.88	287.9					

**YE113 / 81**

BODY	ASTM A216 WCB-2008	W 16752	0.207	0.47	0.93	0.023	0.014	0.032	0.042	0.003	0.031	0.007		0.38	80.33	49.01	29	57	164		N
															553.86	337.9					
BONNET	ASTM A216 WCB-2008	W 17182	0.199	0.43	0.94	0.027	0.015	0.026	0.036	0.004	0.033	0.007	0.045	0.38	83.96	54.96	29	54	167		N
															578.88	378.9					
WEDGE	ASTM A217 CA15-2007	D 2335	0.13	0.84	0.78	0.015	0.010	0.301	12.66	0.039	0.075				101.65	71.63	19	49	254		N
															700.85	493.9					

**Heat Treatment Codes:**

<i>A : Annealing</i>	<i>AC : Air Cooling</i>	<i>DA : Double Aged</i>	<i>FT : Furnace Treatment</i>	<i>N : Normalizing</i>	<i>OQ : OilQuenched</i>
<i>Ph-3 : Precipitation Hardening</i>	<i>SA : Solution Annealed</i>	<i>SQ : Solution Quenched</i>	<i>ST : Solution Treatment</i>	<i>T : Tempering</i>	<i>WC : Water Cooling</i>
<i>WO : Water Quenched</i>	<i>WT : Water Quenched/ Tempered</i>			<i>NT : Normalized/Tempered</i>	

<b>Part</b>	<b>Material</b>
BACK SEAT	ASTM A276 410
BODY/BONNET	ASTM A216 WCB
BOLTING	ASTM A193 B7 / ASTM A194 2H
DISC-WEDGE-CLAPPER	WCB OR CA15
PACKING	GRAPHITE
SEAT RING	ASTM A105 + Stl.6 Faced
STEM	ASTM A182 F6A Cl. 3
STEM NUT	ASTM A439-D2

Valves Tested per API598

We hereby certify, that the material described above complies with the order requirements.

**EC Declaration of Conformity: JEV (Jiangyin Eastern Valve Co. Ltd.), Jiangsu Province, 214423, P.R. China**

According to Annex VII of Pressure Equipment Directive 97/23/EC , hereby declare that the products detailed above are in compliance with PED 97/23/EC and have been manufactured in accordance with conformity assesment module B+D as approved Det Norske Veritas Inspection AB as Identification No 0575 (formally 0409). The products may cover Category I, II and III of pressure equipment. For the most specific risks of this equipment, safety and compliance with essential requirements of the Directive has been based on API 600, API598, ASME B16.34, ASME B16.5, ASME B16.10 latest edition.

Undersigned by Liu Jian Qing, representing Jianyin Eastern Valve company Ltd. :  
