

Certificate/Serial/Job No: YA10

Quality Department: John Ho

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
56	6	150	/ 103034	DSI 137XU	SWING				3/20/2012

Pressure Test: API598	<input checked="" type="checkbox"/> Satisfactory	Shell Pressure : 450 psi 3102.64 kPa	BackSeat : psi kPa	Seat Pressure 325 psi 2240.8 kPa	Seat Air Pressure psi 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]

YA10 / 25

BODY	ASTM A216 WCB-2008	A 11399	0.220	0.44	0.96	0.025	0.013	0.022	0.054	0.005	0.039	0.005		0.017	0.40	72.50	43.36	31	58	149									N
																499.87	299												
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002			0.35	74.53	47.85	30	64	158									N
																513.87	329.9												
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003				73.95	52.20	29.5	66	150	64	69	51					N	
																509.87	359.9												

YA10 / 26

BODY	ASTM A216 WCB-2008	A 10241	0.210	0.45	0.94	0.027	0.016	0.026	0.053	0.002	0.038	0.005		0.008	0.38	74.24	44.37	27	56	152									N
																511.87	305.9												
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002			0.35	74.53	47.85	30	64	158									N
																513.87	329.9												
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003				73.95	52.20	29.5	66	150	64	69	51					N	
																509.87	359.9												

YA10 / 27

BODY	ASTM A216 WCB-2008	A 11596	0.210	0.43	0.87	0.027	0.013	0.022	0.049	0.002	0.032	0.004		0.013	0.37	74.24	43.94	27	56	151									N
																511.87	303												
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002			0.35	74.53	47.85	30	64	158									N
																513.87	329.9												
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003				73.95	52.20	29.5	66	150	64	69	51					N	
																509.87	359.9												

YA10 / 28

BODY	ASTM A216 WCB-2008	A 11596	0.210	0.43	0.87	0.027	0.013	0.022	0.049	0.002	0.032	0.004		0.013	0.37	74.24	43.94	27	56	151									N
																511.87	303												
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002			0.35	74.53	47.85	30	64	158									N
																513.87	329.9												
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003				73.95	52.20	29.5	66	150	64	69	51					N	
																509.87	359.9												

YA10 / 29

BODY	ASTM A216 WCB-2008	A 11596	0.210	0.43	0.87	0.027	0.013	0.022	0.049	0.002	0.032	0.004		0.013	0.37	74.24	43.94	27	56	151									N
																511.87	303												
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002			0.35	74.53	47.85	30	64	158									N
																513.87	329.9												
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003				73.95	52.20	29.5	66	150	64	69	51					N	
																509.87	359.9												

BODY	ASTM A216 WCB-2008	A 11596	0.210	0.43	0.87	0.027	0.013	0.022	0.049	0.002	0.032	0.004	0.013	0.37	74.24	43.94	27	56	151		N	
															511.87	303						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 30

BODY	ASTM A216 WCB-2008	A 11599	0.200	0.45	0.88	0.022	0.013	0.030	0.049	0.001	0.034	0.005	0.025	0.36	76.42	46.26	26	53	154		N	
															526.9	319						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 31

BODY	ASTM A216 WCB-2008	A 11400	0.220	0.43	0.90	0.025	0.014	0.020	0.041	0.007	0.036	0.005	0.014	0.38	76.42	46.11	25	52	159		N	
															526.9	317.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 32

BODY	ASTM A216 WCB-2008	A 10236	0.200	0.44	0.87	0.025	0.016	0.012	0.030	0.002	0.027	0.005	0.018	0.36	72.36	43.07	30	56	150		N	
															498.90	297						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 33

BODY	ASTM A216 WCB-2008	A 10694	0.210	0.46	0.96	0.026	0.013	0.044	0.093	0.010	0.033	0.005	0.033	0.40	76.42	45.24	26	54	158		N	
															526.9	311.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 34

BODY	ASTM A216 WCB-2008	A 11597	0.205	0.45	0.93	0.025	0.014	0.020	0.038	0.001	0.031	0.005		0.37	72.50	43.21	31	58	150		N	
															499.87	297.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 35

BODY	ASTM A216 WCB-2008	A 10241	0.210	0.45	0.94	0.027	0.016	0.026	0.053	0.002	0.038	0.005	0.008	0.38	74.24	44.37	27	56	152		N	
															511.87	305.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 36

BODY	ASTM A216 WCB-2008	A 11789	0.220	0.47	0.86	0.024	0.014	0.031	0.056	0.008	0.044	0.005	0.044	0.38	76.27	45.53	26	55	153		N	
															525.86	313.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						

COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 37

BODY	ASTM A216 WCB-2008	A 10980	0.200	0.53	0.99	0.028	0.019	0.030	0.054	0.006	0.031	0.006	0.046	0.38	76.56	45.97	26	53	157				N
															527.86	317							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 38

BODY	ASTM A216 WCB-2008	A 11398	0.210	0.44	0.86	0.025	0.013	0.027	0.047	0.002	0.041	0.004	0.01	0.37	74.53	43.94	29	57	152				N
															513.87	303							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 39

BODY	ASTM A216 WCB-2008	A 11397	0.230	0.45	0.89	0.026	0.014	0.014	0.038	0.004	0.034	0.005	0.022	0.39	76.13	45.10	26	54	157				N
															524.9	311							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 40

BODY	ASTM A216 WCB-2008	A 11599	0.200	0.45	0.88	0.022	0.013	0.030	0.049	0.001	0.034	0.005	0.025	0.36	76.42	46.26	26	53	154				N
															526.9	319							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 41

BODY	ASTM A216 WCB-2008	A 11399	0.220	0.44	0.96	0.025	0.013	0.022	0.054	0.005	0.039	0.005	0.017	0.40	72.50	43.36	31	58	149				N
															499.87	299							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 42

BODY	ASTM A216 WCB-2008	A 11401	0.210	0.44	0.92	0.025	0.012	0.035	0.051	0.008	0.039	0.006	0.005	0.38	73.95	43.50	30	56	155				N
															509.87	299.9							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 43

BODY	ASTM A216 WCB-2008	A 11598	0.210	0.42	0.86	0.027	0.012	0.048	0.086	0.002	0.044	0.004	0.03	0.38	75.69	44.95	25	55	156				N
															521.86	309.9							
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158				N
															513.87	329.9							
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

YA10 / 44

COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51	N
															509.87	359.9							

BODY	ASTM A216 WCB-2008	A 11596	0.210	0.43	0.87	0.027	0.013	0.022	0.049	0.002	0.032	0.004	0.013	0.37	74.24	43.94	27	56	151		N	
															511.87	303						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 45

BODY	ASTM A216 WCB-2008	A 11401	0.210	0.44	0.92	0.025	0.012	0.035	0.051	0.008	0.039	0.006	0.005	0.38	73.95	43.50	30	56	155		N	
															509.87	299.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 46

BODY	ASTM A216 WCB-2008	A 10697	0.210	0.46	0.91	0.025	0.017	0.031	0.046	0.005	0.026	0.003	0.006	0.38	74.10	43.94	28	56	152		N	
															510.90	303						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

YA10 / 47

BODY	ASTM A216 WCB-2008	A 11789	0.220	0.47	0.86	0.024	0.014	0.031	0.056	0.008	0.044	0.005	0.044	0.38	76.27	45.53	26	55	153		N	
															525.86	313.9						
CLAPPER	ASTM A105-2005	C 90029	0.19	0.21	0.92	0.012	0.008	0.02	0.03	0.003	0.04	0.002		0.35	74.53	47.85	30	64	158		N	
															513.87	329.9						
COVER	ASTM A105-2005	C 30963	0.18	0.21	0.90	0.020	0.012	0.02	0.04	0.005	0.06	0.003			73.95	52.20	29.5	66	150	64	69	51
															509.87	359.9						

Heat Treatment Codes:

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

Part	Material
BODY	ASTM A216 WCB
BOLTING	ASTM A193 B7 / ASTM A194 2H
COVER	ASTM A105
DISC-WEDGE-CLAPPER	ASTM A105 +13%Cr Overlay
HINGE PIN	ASTM A276 410
SEAT RING	ASTM A105 + Stl.6 Faced

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 assessment 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. : 