

Certificate/Serial/Job No: YJ129

Quality Department: John Ho

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
98	4	150	/ 103039	DSI 37XUF	GATE				7/21/2012

Pressure Test: API598 <input checked="" type="checkbox"/> Satisfactory	Shell Pressure : 450 <i>psi</i> 3102.64 <i>kPa</i>	BackSeat : 325 <i>psi</i> 2240.8 <i>kPa</i>	Seat Pressure 325 <i>psi</i> 2240.8 <i>kPa</i>	Seat Air Pressure 80 <i>psi</i> 551.58 <i>kPa</i>
--	--	---	--	---

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]

YJ129 / 76

BODY	ASTM A216 WCB-2008	A 12579	0.200	0.40	0.85	0.025	0.011	0.024	0.046	0.002	0.032	0.004		0.003	0.36	76.56	45.39	26	53	154								N	
																527.86	313												
BONNET	ASTM A216 WCB-2008	A 12594	0.200	0.42	0.85	0.022	0.014	0.027	0.053	0.005	0.031	0.004		0.005	0.36	74.24	44.23	31	56	153									N
																511.87	305												
WEDGE	ASTM A217 CA15-2007	D 5669	0.12	0.94	0.77	0.026	0.011	0.136	12.43	0.031	0.012					102.23	72.21	21	52	254									N
																704.85	497.9												

YJ129 / 77

BODY	ASTM A216 WCB-2008	A 12554	0.210	0.41	0.89	0.028	0.019	0.055	0.036	0.032	0.041	0.004		0.029	0.38	76.42	45.82	26	54	155								N	
																526.9	315.9												
BONNET	ASTM A216 WCB-2008	A 12581	0.210	0.41	0.90	0.029	0.014	0.041	0.099	0.006	0.034	0.005		0.007	0.39	74.82	44.66	30	56	152									N
																515.87	307.9												
WEDGE	ASTM A217 CA15-2007	D 5854	0.11	0.94	0.78	0.026	0.010	0.126	12.95	0.036	0.016					100.63	72.36	20	49	265									N
																693.82	498.9												

YJ129 / 78

BODY	ASTM A216 WCB-2008	W 18006	0.198	0.45	0.97	0.025	0.009	0.042	0.050	0.006	0.038	0.007		0.042	0.38	84.49	57.86	31	60	163								N	
																582.54	398.9												
BONNET	ASTM A216 WCB-2008	A 12567	0.200	0.43	0.92	0.026	0.013	0.021	0.043	0.003	0.028	0.005		0.009	0.37	76.56	45.39	26	54	156									N
																527.86	313												
WEDGE	ASTM A217 CA15-2007	D 5389	0.09	0.87	0.74	0.027	0.011	0.137	12.84	0.040	0.011					103.97	74.24	19	50	262									N
																716.85	511.9												

YJ129 / 79

BODY	ASTM A216 WCB-2008	A 12550	0.220	0.43	0.87	0.026	0.013	0.023	0.068	0.005	0.029	0.005		0.008	0.38	74.68	44.23	30	56	152								N	
																514.90	305												
BONNET	ASTM A216 WCB-2008	A 12568	0.200	0.47	0.96	0.027	0.014	0.033	0.067	0.003	0.035	0.005		0.004	0.38	77.14	46.26	25	51	159									N
																531.86	319												
WEDGE	ASTM A217 CA15-2007	D 5659	0.09	0.86	0.81	0.027	0.010	0.126	12.44	0.037	0.016					101.94	74.53	20.2	49	257									N
																702.85	513.9												

YJ129 / 80

BODY	ASTM A216 WCB-2008	A 12577	0.210	0.53	0.98	0.033	0.017	0.039	0.079	0.009	0.034	0.005	0.042	0.40	73.08	43.21	33	58	148		N
															503.87	297.9					
BONNET	ASTM A216 WCB-2008	A 12554	0.210	0.41	0.89	0.028	0.019	0.055	0.036	0.032	0.041	0.004	0.029	0.38	76.42	45.82	26	54	155		N
															526.9	315.9					
WEDGE	ASTM A217 CA15-2007	D 5847	0.12	1.03	0.80	0.023	0.010	0.134	12.68	0.034	0.010				101.50	71.78	18.5	48	263		N
															699.82	494.9					

YJ129 / 81

BODY	ASTM A216 WCB-2008	A 12573	0.210	0.46	0.87	0.026	0.016	0.048	0.059	0.033	0.031	0.005	0.052	0.38	76.42	46.11	26	52	157		N
															526.9	317.9					
BONNET	ASTM A216 WCB-2008	A 12580	0.210	0.41	0.92	0.026	0.011	0.038	0.095	0.008	0.038	0.004	0.007	0.39	73.08	43.50	32	57	150		N
															503.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 5902	0.14	0.93	0.85	0.026	0.011	0.114	12.14	0.038	0.013				103.39	73.08	19.6	49	264		N
															712.85	503.9					

YJ129 / 82

BODY	ASTM A216 WCB-2008	W 18020	0.201	0.43	0.86	0.027	0.010	0.032	0.041	0.008	0.039	0.006	0.049	0.37	82.22	52.06	29	57	154		N
															566.89	358.9					
BONNET	ASTM A216 WCB-2008	A 12585	0.210	0.46	0.89	0.027	0.014	0.030	0.060	0.002	0.037	0.004	0.043	0.38	76.42	45.39	26	53	156		N
															526.9	313					
WEDGE	ASTM A217 CA15-2007	D 5390	0.11	0.92	0.78	0.024	0.011	0.121	12.59	0.029	0.010				104.55	75.55	19.6	49	258		N
															720.85	520.9					

YJ129 / 83

BODY	ASTM A216 WCB-2008	W 18012	0.206	0.41	0.85	0.032	0.011	0.033	0.043	0.006	0.038	0.006	0.038	0.37	78.59	54.36	27	50	165		N
															541.86	374.8					
BONNET	ASTM A216 WCB-2008	A 12548	0.220	0.42	0.85	0.029	0.019	0.048	0.095	0.007	0.035	0.005	0.015	0.39	75.98	45.39	27	56	154		N
															523.86	313					
WEDGE	ASTM A217 CA15-2007	D 5902	0.14	0.93	0.85	0.026	0.011	0.114	12.14	0.038	0.013				103.39	73.08	19.6	49	264		N
															712.85	503.9					

YJ129 / 84

BODY	ASTM A216 WCB-2008	W 18020	0.201	0.43	0.86	0.027	0.010	0.032	0.041	0.008	0.039	0.006	0.049	0.37	82.22	52.06	29	57	154		N
															566.89	358.9					
BONNET	ASTM A216 WCB-2008	A 12559	0.220	0.48	0.91	0.029	0.014	0.038	0.079	0.009	0.038	0.006	0.037	0.40	74.39	44.23	30	56	152		N
															512.90	305					
WEDGE	ASTM A217 CA15-2007	D 5851	0.12	0.90	0.76	0.025	0.010	0.156	12.84	0.039	0.014				103.10	74.68	20	52	263		N
															710.85	514.9					

YJ129 / 85

BODY	ASTM A216 WCB-2008	A 12581	0.210	0.41	0.90	0.029	0.014	0.041	0.099	0.006	0.034	0.005	0.007	0.39	74.82	44.66	30	56	152		N
															515.87	307.9					
BONNET	ASTM A216 WCB-2008	A 12576	0.200	0.47	0.90	0.029	0.014	0.030	0.064	0.005	0.032	0.005	0.058	0.37	76.42	46.11	25	51	159		N
															526.9	317.9					
WEDGE	ASTM A217 CA15-2007	D 5872	0.12	0.938	0.81	0.025	0.010	0.173	12.38	0.034	0.022				101.50	71.92	19.4	49	263		N
															699.82	495.9					

YJ129 / 86

BODY	ASTM A216 WCB-2008	W 18003	0.196	0.46	0.89	0.028	0.009	0.055	0.042	0.005	0.033	0.009	0.039	0.37	77.43	47.85	32	61	157		N
															533.86	329.9					
BONNET	ASTM A216 WCB-2008	A 12559	0.220	0.48	0.91	0.029	0.014	0.038	0.079	0.009	0.038	0.006	0.037	0.40	74.39	44.23	30	56	152		N
															512.90	305					
WEDGE	ASTM A217 CA15-2007	D 5396	0.09	0.86	0.72	0.025	0.011	0.149	12.49	0.022	0.035				104.69	74.53	18.6	47	258		N
															721.81	513.9					

YJ129 / 87

BODY	ASTM A216 WCB-2008	A 12574	0.210	0.47	0.93	0.031	0.015	0.029	0.067	0.004	0.033	0.005	0.03	0.38	76.42	45.53	27	56	154		N
															526.9	313.9					
BONNET	ASTM A216 WCB-2008	A 12557	0.210	0.49	0.97	0.023	0.010	0.032	0.079	0.011	0.034	0.004	0.058	0.39	74.39	44.08	32	57	152		N
															512.90	303.9					

WEDGE	ASTM A217 CA15-2007	D 5657	0.10	0.97	0.83	0.023	0.010	0.133	12.21	0.036	0.013			104.69	75.26	19.4	45	255		N
														721.81	518.9					

YJ129 / 88

BODY	ASTM A216 WCB-2008	A 12570	0.200	0.46	0.84	0.028	0.013	0.042	0.085	0.006	0.037	0.008		0.024	0.37	76.56	45.39	26	54	156		N
																527.86	313					
BONNET	ASTM A216 WCB-2008	A 12574	0.210	0.47	0.93	0.031	0.015	0.029	0.067	0.004	0.033	0.005		0.03	0.38	76.42	45.53	27	56	154		N
																526.9	313.9					
WEDGE	ASTM A217 CA15-2007	D 5666	0.10	0.95	0.75	0.025	0.012	0.115	12.36	0.032	0.024					104.84	74.68	18.4	47	255		N
																722.85	514.9					

YJ129 / 89

BODY	ASTM A216 WCB-2008	A 12565	0.210	0.45	0.93	0.027	0.014	0.015	0.058	0.005	0.038	0.005		0.033	0.38	77.14	46.26	25	51	159		N
																531.86	319					
BONNET	ASTM A216 WCB-2008	A 12556	0.210	0.43	0.84	0.024	0.010	0.022	0.056	0.007	0.029	0.003		0.042	0.37	76.42	46.26	26	55	156		N
																526.9	319					
WEDGE	ASTM A217 CA15-2007	D 5399	0.10	0.85	0.77	0.024	0.010	0.116	12.53	0.023	0.038					102.23	72.50	18.5	49	261		N
																704.85	499.9					

YJ129 / 90

BODY	ASTM A216 WCB-2008	A 12571	0.210	0.43	0.86	0.028	0.014	0.042	0.148	0.012	0.037	0.005		0.008	0.39	73.37	43.36	32	57	149		N
																505.87	299					
BONNET	ASTM A216 WCB-2008	A 12575	0.210	0.42	0.89	0.023	0.011	0.027	0.066	0.003	0.031	0.005		0.037	0.38	74.24	43.94	30	56	151		N
																511.87	303					
WEDGE	ASTM A217 CA15-2007	D 5902	0.14	0.93	0.85	0.026	0.011	0.114	12.14	0.038	0.013					103.39	73.08	19.6	49	264		N
																712.85	503.9					

YJ129 / 91

BODY	ASTM A216 WCB-2008	A 12572	0.200	0.43	0.89	0.028	0.014	0.045	0.099	0.012	0.034	0.006		0.016	0.38	75.55	44.95	29	56	153		N
																520.9	309.9					
BONNET	ASTM A216 WCB-2008	A 12555	0.210	0.44	0.91	0.028	0.017	0.041	0.041	0.026	0.028	0.030		0.025	0.39	73.95	43.50	31	56	150		N
																509.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 5387	0.09	1.04	0.77	0.024	0.011	0.203	12.46	0.033	0.010					103.39	74.97	20.1	50	263		N
																712.85	516.9					

YJ129 / 92

BODY	ASTM A216 WCB-2008	A 12559	0.220	0.48	0.91	0.029	0.014	0.038	0.079	0.009	0.038	0.006		0.037	0.40	74.39	44.23	30	56	152		N
																512.90	305					
BONNET	ASTM A216 WCB-2008	A 12576	0.200	0.47	0.90	0.029	0.014	0.030	0.064	0.005	0.032	0.005		0.058	0.37	76.42	46.11	25	51	159		N
																526.9	317.9					
WEDGE	ASTM A217 CA15-2007	D 5382	0.09	0.95	0.77	0.025	0.010	0.130	12.43	0.034	0.019					101.07	72.21	19.1	48	262		N
																696.85	497.9					

YJ129 / 93

BODY	ASTM A216 WCB-2008	A 12589	0.210	0.43	0.86	0.027	0.012	0.033	0.068	0.006	0.030	0.004		0.014	0.37	73.37	43.50	32	57	151		N
																505.87	299.9					
BONNET	ASTM A216 WCB-2008	A 12575	0.210	0.42	0.89	0.023	0.011	0.027	0.066	0.003	0.031	0.005		0.037	0.38	74.24	43.94	30	56	151		N
																511.87	303					
WEDGE	ASTM A217 CA15-2007	D 5396	0.09	0.86	0.72	0.025	0.011	0.149	12.49	0.022	0.035					104.69	74.53	18.6	47	258		N
																721.81	513.9					

YJ129 / 94

BODY	ASTM A216 WCB-2008	A 12582	0.200	0.40	0.82	0.025	0.013	0.051	0.071	0.001	0.039	0.006		0.051	0.36	75.40	44.95	26	54	157		N
																519.86	309.9					
BONNET	ASTM A216 WCB-2008	A 12546	0.210	0.42	0.87	0.026	0.011	0.030	0.058	0.004	0.032	0.005		0.019	0.37	74.68	44.08	32	57	152		N
																514.90	303.9					
WEDGE	ASTM A217 CA15-2007	D 5856	0.11	1.04	0.77	0.022	0.010	0.149	12.21	0.034	0.024					101.79	72.65	20	50	261		N
																701.82	500.9					

YJ129 / 95

BODY	ASTM A216 WCB-2008	A 12570	0.200	0.46	0.84	0.028	0.013	0.042	0.085	0.006	0.037	0.008	0.024	0.37	76.56	45.39	26	54	156		N
															527.86	313					
BONNET	ASTM A216 WCB-2008	A 12566	0.220	0.44	0.96	0.025	0.013	0.026	0.057	0.005	0.032	0.005	0.013	0.40	74.53	44.37	32	56	152		N
															513.87	305.9					
WEDGE	ASTM A217 CA15-2007	D 5845	0.11	1.05	0.83	0.027	0.010	0.134	12.23	0.032	0.010				103.82	72.94	20	51	260		N
															715.81	502.9					

YJ129 / 96

BODY	ASTM A216 WCB-2008	A 12549	0.200	0.41	0.88	0.027	0.012	0.033	0.074	0.003	0.032	0.005	0.008	0.37	73.08	42.92	32	57	150		N
															503.87	295.9					
BONNET	ASTM A216 WCB-2008	A 12559	0.220	0.48	0.91	0.029	0.014	0.038	0.079	0.009	0.038	0.006	0.037	0.40	74.39	44.23	30	56	152		N
															512.90	305					
WEDGE	ASTM A217 CA15-2007	D 5392	0.11	0.92	0.80	0.026	0.011	0.121	12.47	0.029	0.018				104.84	74.24	20	50	261		N
															722.85	511.9					

YJ129 / 97

BODY	ASTM A216 WCB-2008	W 18020	0.201	0.43	0.86	0.027	0.010	0.032	0.041	0.008	0.039	0.006	0.049	0.37	82.22	52.06	29	57	154		N
															566.89	358.9					
BONNET	ASTM A216 WCB-2008	A 12582	0.200	0.40	0.82	0.025	0.013	0.051	0.071	0.001	0.039	0.006	0.051	0.36	75.40	44.95	26	54	157		N
															519.86	309.9					
WEDGE	ASTM A217 CA15-2007	D 5384	0.11	0.86	0.82	0.024	0.010	0.121	12.11	0.030	0.017				99.91	70.33	20	47	262		N
															688.86	484.9					

YJ129 / 98

BODY	ASTM A216 WCB-2008	W 18002	0.196	0.44	0.91	0.025	0.008	0.053	0.042	0.004	0.032	0.009	0.049	0.37	85.70	56.70	27	49	166		N
															590.88	390.9					
BONNET	ASTM A216 WCB-2008	A 12577	0.210	0.53	0.98	0.033	0.017	0.039	0.079	0.009	0.034	0.005	0.042	0.40	73.08	43.21	33	58	148		N
															503.87	297.9					
WEDGE	ASTM A217 CA15-2007	D 5393	0.10	0.88	0.82	0.025	0.012	0.130	12.39	0.032	0.011				100.05	72.07	20	50	264		N
															689.82	496.9					

Heat Treatment Codes:

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

Part	Material
BACK SEAT	ASTM A276 410
BODY/BONNET	ASTM A216 WCB
BOLTING	ASTM A193 B7 / ASTM A194 2H
DISC-WEDGE-CLAPPER	ASTM A217 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 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. : 