

Certificate/Serial/Job No: YG17

Quality Department: John H

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
73	3	150	/ 103035	DSI 37XUF	GATE				5/3/2012

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

YG17 / 1

BODY	ASTM A216 WCB-2008	A 11664	0.230	0.46	0.89	0.027	0.016	0.029	0.057	0.003	0.039	0.005		0.025	0.40	76.27 525.86	45.10 311	31	56	155									N
BONNET	ASTM A216 WCB-2008	W 16675	0.195	0.41	0.96	0.022	0.010	0.049	0.044	0.004	0.035	0.006			0.37	88.02 606.88	50.75 349.9	29	55	166								N	
WEDGE	ASTM A217 CA15-2007	D 5451	0.10	0.87	0.80	0.023	0.011	0.122	12.53	0.036	0.016					102.37 705.82	71.78 494.9	19.4	48	264								N	

YG17 / 2

BODY	ASTM A216 WCB-2008	A 11642	0.210	0.47	0.93	0.024	0.013	0.023	0.051	0.007	0.037	0.005		0.033	0.38	72.50 499.87	43.36 299	31	58	151									N
BONNET	ASTM A216 WCB-2008	A 09661	0.230	0.40	0.84	0.024	0.015	0.032	0.041	0.012	0.026	0.008			0.39	73.95 509.87	43.94 303	30	57	152								N	
WEDGE	ASTM A217 CA15-2007	D 5447	0.10	0.92	0.81	0.025	0.010	0.136	12.70	0.090	0.014					103.53 713.81	73.52 506.9	20	51	265								N	

YG17 / 3

BODY	ASTM A216 WCB-2008	A 11623	0.210	0.42	0.86	0.026	0.015	0.028	0.065	0.010	0.042	0.005		0.015	0.37	73.95 509.87	44.81 309	33	58	153								N
BONNET	ASTM A216 WCB-2008	W 14581	0.216	0.49	0.94	0.031	0.019	0.032	0.029	0.001	0.029	0.006			0.39	84.54 582.88	55.54 382.9	28	50	175								N
WEDGE	ASTM A217 CA15-2007	D 5447	0.10	0.92	0.81	0.025	0.010	0.136	12.70	0.090	0.014					103.53 713.81	73.52 506.9	20	51	265								N

YG17 / 4

BODY	ASTM A216 WCB-2008	A 11639	0.200	0.43	0.91	0.024	0.011	0.027	0.047	0.007	0.037	0.005		0.008	0.37	74.68 514.90	44.37 305.9	30	57	152								N
BONNET	ASTM A216 WCB-2008	W 14508	0.216	0.48	0.86	0.037	0.015	0.026	0.019	0.001	0.031	0.006			0.37	80.91 557.85	49.59 341.9	28	54	162								N
WEDGE	ASTM A217 CA15-2007	D 5445	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049					104.55 720.85	72.65 500.9	19.4	49	261								N

YG17 / 5

BODY	ASTM A216 WCB-2008	W 12909	0.211	0.480	0.938	0.025	0.017	0.016	0.034	0.001	0.028	0.002		0.38	75.69	45.24	27	49	168		N
															521.86	311.9					
BONNET	ASTM A216 WCB-2008	A 09656	0.200	0.45	0.86	0.020	0.013	0.024	0.040	0.001	0.029	0.004		0.36	75.26	44.23	29	56	152		N
															518.9	305					
WEDGE	ASTM A217 CA15-2007	D 5443	0.11	0.92	0.79	0.025	0.010	0.125	12.86	0.033	0.010				105.42	77.43	20	50	264		N
															726.85	533.9					

YG17 / 6

BODY	ASTM A216 WCB-2008	A 11875	0.200	0.50	0.87	0.026	0.017	0.026	0.07	0.016	0.042	0.006		0.022	0.37	74.24	43.94	30	57	150		N
																511.87	303					
BONNET	ASTM A216 WCB-2008	W 14638	0.192	0.45	0.97	0.033	0.011	0.023	0.022	0.001	0.038	0.006		0.36	84.54	55.54	29	54	173		N	
																582.88	382.9					
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017				104.98	74.68	19	51	267		N	
																723.81	514.9					

YG17 / 7

BODY	ASTM A216 WCB-2008	A 11638	0.210	0.48	0.84	0.028	0.014	0.023	0.048	0.005	0.039	0.004		0.054	0.37	76.42	46.11	27	54	158		N
																526.9	317.9					
BONNET	ASTM A216 WCB-2008	A 11654	0.200	0.45	0.87	0.028	0.014	0.031	0.059	0.003	0.037	0.012		0.003	0.36	76.42	45.68	29	57	153		N
																526.9	315					
WEDGE	ASTM A217 CA15-2007	D 5451	0.10	0.87	0.80	0.023	0.011	0.122	12.53	0.036	0.016				102.37	71.78	19.4	48	264		N	
																705.82	494.9					

YG17 / 8

BODY	ASTM A216 WCB-2008	A 11649	0.220	0.45	0.91	0.022	0.012	0.025	0.044	0.001	0.041	0.005		0.009	0.39	73.95	43.94	29	57	152		N
																509.87	303					
BONNET	ASTM A216 WCB-2008	W 14595	0.196	0.46	0.94	0.037	0.016	0.022	0.023	0.001	0.035	0.007		0.36	91.64	62.64	28	53	160		N	
																631.84	431.9					
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017				104.98	74.68	19	51	267		N	
																723.81	514.9					

YG17 / 9

BODY	ASTM A216 WCB-2008	A 11620	0.210	0.45	0.86	0.025	0.015	0.025	0.051	0.001	0.034	0.007		0.04	0.37	74.53	44.37	27	56	155		N
																513.87	305.9					
BONNET	ASTM A216 WCB-2008	W 14649	0.194	0.43	0.92	0.032	0.011	0.044	0.043	0.001	0.042	0.007		0.36	83.96	54.96	28	52	172		N	
																578.88	378.9					
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017				104.98	74.68	19	51	267		N	
																723.81	514.9					

YG17 / 10

BODY	ASTM A216 WCB-2008	A 11878	0.200	0.47	0.88	0.023	0.011	0.024	0.076	0.018	0.041	0.004		0.059	0.37	74.39	44.37	30	56	152		N
																512.90	305.9					
BONNET	ASTM A216 WCB-2008	W 14638	0.192	0.45	0.97	0.033	0.011	0.023	0.022	0.001	0.038	0.006		0.36	84.54	55.54	29	54	173		N	
																582.88	382.9					
WEDGE	ASTM A217 CA15-2007	D 5450	0.10	0.99	0.78	0.025	0.011	0.128	12.70	0.036	0.017				102.95	71.92	21	50	270		N	
																709.82	495.9					

YG17 / 11

BODY	ASTM A216 WCB-2008	A 11632	0.200	0.43	0.92	0.025	0.014	0.024	0.055	0.004	0.039	0.005		0.006	0.37	72.50	42.78	34	57	147		N
																499.87	295					
BONNET	ASTM A216 WCB-2008	W 14581	0.216	0.49	0.94	0.031	0.019	0.032	0.029	0.001	0.029	0.006		0.39	84.54	55.54	28	50	175		N	
																582.88	382.9					
WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049				104.55	72.65	19.4	49	261		N	
																720.85	500.9					

YG17 / 12

BODY	ASTM A216 WCB-2008	W 13030	0.215	0.45	0.96	0.034	0.017	0.025	0.063	0.001	0.038	0.005		0.39	80.33	52.64	31	52	166		N	
																553.86	362.9					
BONNET	ASTM A216 WCB-2008	W 14571	0.206	0.46	0.96	0.032	0.013	0.027	0.038	0.001	0.034	0.007		0.38	86.86	57.86	30	54	160		N	
																598.88	398.9					



BODY	ASTM A216 WCB-2008	A 11414	0.210	0.45	0.83	0.027	0.015	0.030	0.052	0.001	0.034	0.004	0.045	0.36	76.13	45.24	26	54	156		N
															524.9	311.9					
BONNET	ASTM A216 WCB-2008	W 14545	0.198	0.52	0.89	0.029	0.020	0.068	0.084	0.006	0.028	0.006		0.37	80.33	52.64	29	56	154		N
															553.86	362.9					
WEDGE	ASTM A217 CA15-2007	D 3712	0.09	0.97	0.83	0.015	0.011	0.110	12.37	0.013	0.075				101.50	73.08	18.7	52	269		N
															699.82	503.9					

YG17 / 21

BODY	ASTM A216 WCB-2008	A 10438	0.200	0.42	0.80	0.021	0.016	0.020	0.032	0.001	0.023	0.004	0.006	0.34	75.84	44.95	26	54	156		N
															522.9	309.9					
BONNET	ASTM A216 WCB-2008	W 14545	0.198	0.52	0.89	0.029	0.020	0.068	0.084	0.006	0.028	0.006		0.37	80.33	52.64	29	56	154		N
															553.86	362.9					
WEDGE	ASTM A217 CA15-2007	D 5445	0.10	0.84	0.74	0.027	0.011	0.132	12.32	0.021	0.012				104.11	73.95	20	48	259		N
															717.81	509.9					

YG17 / 22

BODY	ASTM A216 WCB-2008	A 11634	0.220	0.48	0.93	0.025	0.014	0.025	0.043	0.013	0.04	0.005	0.043	0.39	76.42	44.95	29	53	156		N
															526.9	309.9					
BONNET	ASTM A216 WCB-2007	W 11862	0.220	0.42	0.94	0.035	0.017	0.021	0.039	0.001	0.023	0.005		0.39	75.55	46.84	27.0	47.0	164		N
															520.9	323					
WEDGE	ASTM A217 CA15-2007	D 5451	0.10	0.87	0.80	0.023	0.011	0.122	12.53	0.036	0.016				102.37	71.78	19.4	48	264		N
															705.82	494.9					

YG17 / 23

BODY	ASTM A216 WCB-2008	A 11875	0.200	0.50	0.87	0.026	0.017	0.026	0.07	0.016	0.042	0.006	0.022	0.37	74.24	43.94	30	57	150		N
															511.87	303					
BONNET	ASTM A216 WCB-2008	A 11662	0.210	0.43	0.94	0.022	0.013	0.022	0.044	0.005	0.046	0.008		0.38	75.11	44.81	27	54	155		N
															517.87	309					
WEDGE	ASTM A217 CA15-2007	D 5451	0.10	0.87	0.80	0.023	0.011	0.122	12.53	0.036	0.016				102.37	71.78	19.4	48	264		N
															705.82	494.9					

YG17 / 24

BODY	ASTM A216 WCB-2008	W 12859	0.211	0.48	0.93	0.032	0.011	0.051	0.127	0.001	0.023	0.004	0.40		75.98	47.56	30	52	166		N
															523.86	327.9					
BONNET	ASTM A216 WCB-2006	W 14567	0.213	0.44	0.93	0.038	0.013	0.073	0.022	0.001	0.032	0.006	0.38		79.75	50.17	29	56	168		N
															549.86	345.9					
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017				104.98	74.68	19	51	267		N
															723.81	514.9					

YG17 / 25

BODY	ASTM A216 WCB-2008	A 11643	0.200	0.42	0.9	0.026	0.015	0.03	0.059	0.001	0.033	0.009	0.007	0.37	75.98	45.10	27	56	154		N
															523.86	311					
BONNET	ASTM A216 WCB-2008	W 14581	0.216	0.49	0.94	0.031	0.019	0.032	0.029	0.001	0.029	0.006		0.39	84.54	55.54	28	50	175		N
															582.88	382.9					
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017				104.98	74.68	19	51	267		N
															723.81	514.9					

YG17 / 26

BODY	ASTM A216 WCB-2008	A 10436	0.210	0.48	0.87	0.026	0.014	0.022	0.049	0.005	0.038	0.005	0.008	0.37	76.71	45.82	26	54	158		N
															528.9	315.9					
BONNET	ASTM A216 WCB-2008	W 14614	0.216	0.44	0.94	0.023	0.009	0.046	0.027	0.001	0.048	0.004		0.39	81.64	51.48	29	53	165		N
															582.89	354.9					
WEDGE	ASTM A217 CA15-2007	D 5443	0.11	0.92	0.79	0.026	0.010	0.125	12.86	0.033	0.010				105.42	77.43	20	50	264		N
															726.85	533.9					

YG17 / 27

BODY	ASTM A216 WCB-2008	A 09671	0.200	0.40	0.82	0.023	0.017	0.025	0.045	0.004	0.031	0.004	0.35		76.56	45.53	26	53	154		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2006	A 11663	0.200	0.47	0.89	0.023	0.013	0.022	0.052	0.007	0.04	0.005	0.015	0.37	76.42	45.82	28	53	158		N
															526.9	315.9					

WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049							104.55	72.65	19.4	49	261			N
													720.85	500.9											

YG17 / 28

BODY	ASTM A216 WCB-2008	A 11632	0.200	0.43	0.92	0.025	0.014	0.024	0.055	0.004	0.039	0.005		0.006	0.37	72.50	42.78	34	57	147						N
													499.87	295												
BONNET	ASTM A216 WCB-2008	W 16675	0.195	0.41	0.96	0.022	0.010	0.049	0.044	0.004	0.035	0.006			0.37	88.02	50.75	29	55	166						N
													606.88	349.9												
WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049					104.55	72.65	19.4	49	261					N	
													720.85	500.9												

YG17 / 29

BODY	ASTM A216 WCB-2008	A 11878	0.200	0.47	0.88	0.023	0.011	0.024	0.076	0.018	0.041	0.004		0.059	0.37	74.39	44.37	30	56	152						N
													512.90	305.9												
BONNET	ASTM A216 WCB-2008	W 14508	0.216	0.48	0.86	0.037	0.015	0.026	0.019	0.001	0.031	0.006			0.37	80.91	49.59	28	54	162						N
													557.85	341.9												
WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049					104.55	72.65	19.4	49	261					N	
													720.85	500.9												

YG17 / 30

BODY	ASTM A216 WCB-2008	W 13101	0.213	0.47	0.96	0.029	0.012	0.036	0.030	0.001	0.029	0.006			0.39	79.17	50.17	26	61	169						N
													545.86	345.9												
BONNET	ASTM A216 WCB-2008	A 11652	0.210	0.42	0.91	0.023	0.009	0.019	0.039	0.001	0.038	0.005		0.025	0.37	76.71	45.97	26	54	157						N
													528.9	317												
WEDGE	ASTM A217 CA15-2007	D 5449	0.11	0.88	0.84	0.025	0.010	0.133	12.70	0.037	0.017					104.98	74.68	19	51	267					N	
													723.81	514.9												

YG17 / 31

BODY	ASTM A216 WCB-2008	A 11413	0.200	0.48	0.92	0.024	0.013	0.030	0.054	0.002	0.036	0.005		0.045	0.37	74.97	44.37	27	56	153						N
													516.9	305.9												
BONNET	ASTM A216 WCB-2008	A 11630	0.200	0.48	0.89	0.025	0.015	0.032	0.05	0.008	0.038	0.005		0.051	0.37	74.53	44.37	30	57	152						N
													513.87	305.9												
WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049					104.55	72.65	19.4	49	261					N	
													720.85	500.9												

YG17 / 32

BODY	ASTM A216 WCB-2008	W 12923	0.198	0.380	0.954	0.028	0.017	0.015	0.089	0.001	0.028	0.007			0.38	82.22	49.59	31	50	157						N
													566.89	341.9												
BONNET	ASTM A216 WCB-2008	W 14545	0.198	0.52	0.89	0.029	0.020	0.068	0.084	0.006	0.028	0.006			0.37	80.33	52.64	29	56	154						N
													553.86	362.9												
WEDGE	ASTM A217 CA15-2007	D 5444	0.13	0.94	0.83	0.026	0.010	0.128	12.94	0.032	0.018					102.95	72.79	19.6	49	265					N	
													709.82	501.9												

YG17 / 33

BODY	ASTM A216 WCB-2008	W 13101	0.213	0.47	0.96	0.029	0.012	0.036	0.030	0.001	0.029	0.006			0.39	79.17	50.17	26	61	169						N
													545.86	345.9												
BONNET	ASTM A216 WCB-2008	W 16675	0.195	0.41	0.96	0.022	0.010	0.049	0.044	0.004	0.035	0.006			0.37	88.02	50.75	29	55	166						N
													606.88	349.9												
WEDGE	ASTM A217 CA15-2007	D 5452	0.09	0.91	0.79	0.023	0.010	0.125	12.58	0.036	0.015					100.20	70.91	18.8	48	260					N	
													690.85	488.9												

YG17 / 34

BODY	ASTM A216 WCB-2008	A 11354	0.200	0.44	0.84	0.022	0.012	0.039	0.070	0.002	0.047	0.004		0.02	0.36	75.55	44.95	27	56	156						N
													520.9	309.9												
BONNET	ASTM A216 WCB-2008	W 14649	0.194	0.43	0.92	0.032	0.011	0.044	0.043	0.001	0.042	0.007			0.36	83.96	54.96	28	52	172						N
													578.88	378.9												
WEDGE	ASTM A217 CA15-2007	D 5446	0.11	0.88	0.80	0.025	0.011	0.137	12.50	0.094	0.049					104.55	72.65	19.4	49	261					N	
													720.85	500.9												

YG17 / 35

BODY	ASTM A216 WCB-2008	A 10439	0.220	0.46	0.89	0.025	0.013	0.026	0.050	0.005	0.035	0.004	0.03	0.38	72.50	43.21	31	58	150		N
															499.87	297.9					
BONNET	ASTM A216 WCB-2008	W 14595	0.196	0.46	0.94	0.037	0.016	0.022	0.023	0.001	0.035	0.007		0.36	91.64	62.64	28	53	160		N
															631.84	431.9					
WEDGE	ASTM A217 CA15-2007	D 5447	0.10	0.92	0.81	0.025	0.010	0.136	12.70	0.090	0.014				103.53	73.52	20	51	265		N
															713.81	506.9					

**Heat Treatment Codes:**

*A* : Annealing      *AC* : Air Cooling      *DA* : Double Aged      *FT* : Furnace Treatment      *N* : Normalizing      *OQ* : Oil Quenched  
*Ph-3* : Precipitation Hardening      *SA* : Solution Annealed      *SQ* : Solution Quenched      *ST* : Solution Treatment      *T* : Tempering      *WC* : Water Cooling  
*WO* : 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 Jiangyin Eastern Valve company Ltd.:

