

Certificate/Serial/Job No:

YJ06

Quality Department: John Ho

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
63	2	150	/ 103020	DSI 37XUF	GATE				10/2/2012

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

YJ06 / 27

BODY	ASTM A216 WCB-2008	V 14707	0.195	0.473	0.757	0.010	0.012	0.038	0.031	0.002	0.024	0.003		0.037	0.34	72.50	46.40	34	59	143								N	
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	499.87	319.9				84.54	54.38	28	54	166				N
WEDGE	ASTM A217 CA15-2007	D 9117	0.09	0.91	0.77	0.025	0.011	0.123	12.19	0.011	0.044					582.88	374.9				105.42	75.55	20.4	50	264				N
																726.85	520.9												

YJ06 / 28

BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010		0.018	0.39	73.23	43.50	32	55	151								N	
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	504.90	299.9				84.54	54.38	28	54	166				N
WEDGE	ASTM A217 CA15-2007	D 9113	0.12	0.87	0.79	0.025	0.011	0.214	12.42	0.011	0.053					582.88	374.9				101.94	71.34	20	52	268				N
																702.85	491.9												

YJ06 / 29

BODY	ASTM A216 WCB-2008	V 14743	0.191	0.457	0.808	0.018	0.011	0.027	0.041	0.002	0.029	0.003		0.046	0.35	70.33	43.50	30	57	139								N	
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	484.91	299.9				84.54	54.38	28	54	166				N
WEDGE	ASTM A217 CA15-2007	D 9138	0.09	0.91	0.75	0.025	0.011	0.154	12.77	0.094	0.036					582.88	374.9				107.59	77.87	20	52	269				N
																741.81	536.9												

YJ06 / 30

BODY	ASTM A216 WCB-2008	V 14768	0.202	0.457	0.942	0.022	0.010	0.036	0.045	0.008	0.039	0.003		0.055	0.38	80.48	50.03	30	62	138								N	
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	554.89	344.9				84.54	54.38	28	54	166				N
WEDGE	ASTM A217 CA15-2007	D 9118	0.12	1.02	0.81	0.027	0.014	0.139	12.30	0.011	0.038					582.88	374.9				103.53	73.95	20	48	268				N
																713.81	509.9												

YJ06 / 31

BODY	ASTM A216 WCB-2008	V 14680	0.188	0.425	0.841	0.023	0.009	0.020	0.029	0.001	0.024	0.002	0.029	0.34	74.68	46.40	32	58	143		N
															514.90	319.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9137	0.11	0.92	0.73	0.024	0.010	0.133	12.23	0.079	0.033				102.81	72.79	19	48	267		N
															708.85	501.9					

YJ06 / 32

BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010	0.018	0.39	73.23	43.50	32	55	151		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9117	0.09	0.91	0.77	0.025	0.011	0.123	12.19	0.011	0.044				105.42	75.55	20.4	50	264		N
															726.85	520.9					

YJ06 / 33

BODY	ASTM A216 WCB-2008	V 14592	0.201	0.488	0.795	0.021	0.008	0.030	0.060	0.007	0.020	0.003	0.036	0.36	70.33	37.70	34	56	140		N
															484.91	259.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9137	0.11	0.92	0.73	0.024	0.010	0.133	12.23	0.079	0.033				102.81	72.79	19	48	267		N
															708.85	501.9					

YJ06 / 34

BODY	ASTM A216 WCB-2008	V 14789	0.196	0.409	0.815	0.007	0.009	0.073	0.031	0.002	0.027	0.002	0.047	0.35	80.48	50.75	32	59	141		N
															554.89	349.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9115	0.09	0.88	0.75	0.026	0.010	0.169	12.66	0.010	0.052				102.37	70.33	18.6	48	268		N
															705.82	484.9					

YJ06 / 35

BODY	ASTM A216 WCB-2008	V 14721	0.208	0.373	0.751	0.023	0.010	0.023	0.034	0.003	0.029	0.003	0.029	0.35	70.33	44.23	33	59	154		N
															484.91	305					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9137	0.11	0.92	0.73	0.024	0.010	0.133	12.23	0.079	0.033				102.81	72.79	19	48	267		N
															708.85	501.9					

YJ06 / 36

BODY	ASTM A216 WCB-2008	V 14714	0.215	0.506	0.816	0.021	0.012	0.045	0.038	0.001	0.032	0.003	0.050	0.37	75.40	47.13	35	58	144		N
															519.86	324.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9138	0.09	0.91	0.75	0.025	0.011	0.154	12.77	0.094	0.036				107.59	77.87	20	52	269		N
															741.81	536.9					

YJ06 / 37

BODY	ASTM A216 WCB-2008	V 14648	0.185	0.404	0.837	0.023	0.010	0.035	0.039	0.003	0.027	0.002	0.045	0.34	71.05	43.50	30	57	138		N
															489.87	299.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9117	0.09	0.91	0.77	0.025	0.011	0.123	12.19	0.011	0.044				105.42	75.55	20.4	50	264		N
															726.85	520.9					

YJ06 / 38

BODY	ASTM A216 WCB-2008	V 14714	0.215	0.506	0.816	0.021	0.012	0.045	0.038	0.001	0.032	0.003	0.050	0.37	75.40	47.13	35	58	144		N
															519.86	324.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					

WEDGE	ASTM A217 CA15-2007	D 9114	0.10	0.95	0.77	0.026	0.010	0.172	12.78	0.010	0.057			104.11	74.39	21	53	270		N
														717.81	512.9					

YJ06 / 39

BODY	ASTM A216 WCB-2008	A 12673	0.230	0.42	0.87	0.027	0.011	0.019	0.045	0.001	0.032	0.006		0.012	0.39	74.68	44.37	31	57	150		N
																514.90	305.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9122	0.11	0.95	0.82	0.025	0.010	0.141	12.44	0.091	0.037					104.40	74.68	20	51	264		N
																719.81	514.9					

YJ06 / 40

BODY	ASTM A216 WCB-2008	V 14707	0.195	0.473	0.757	0.010	0.012	0.038	0.031	0.002	0.024	0.003		0.037	0.34	72.50	46.40	34	59	143		N
																499.87	319.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9114	0.10	0.95	0.77	0.026	0.010	0.172	12.78	0.010	0.057					104.11	74.39	21	53	270		N
																717.81	512.9					

YJ06 / 41

BODY	ASTM A216 WCB-2008	V 14672	0.190	0.450	0.809	0.023	0.006	0.078	0.040	0.004	0.036	0.004		0.040	0.34	72.50	46.40	34	61	135		N
																499.87	319.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9120	0.09	0.93	0.83	0.022	0.012	0.115	12.19	0.073	0.040					102.37	71.63	20	48	257		N
																705.82	493.9					

YJ06 / 42

BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010		0.018	0.39	73.23	43.50	32	55	151		N
																504.90	299.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9113	0.12	0.87	0.79	0.025	0.011	0.214	12.42	0.011	0.053					101.94	71.34	20	52	268		N
																702.85	491.9					

YJ06 / 43

BODY	ASTM A216 WCB-2008	V 14768	0.202	0.457	0.942	0.022	0.010	0.036	0.045	0.008	0.039	0.003		0.055	0.38	80.48	50.03	30	62	138		N
																554.89	344.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9120	0.09	0.93	0.83	0.022	0.012	0.115	12.19	0.073	0.040					102.37	71.63	20	48	257		N
																705.82	493.9					

YJ06 / 44

BODY	ASTM A216 WCB-2008	V 14751	0.205	0.459	0.666	0.023	0.010	0.021	0.024	0.001	0.020	0.001		0.037	0.33	74.68	45.68	33	58	148		N
																514.90	315					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9113	0.12	0.87	0.79	0.025	0.011	0.214	12.42	0.011	0.053					101.94	71.34	20	52	268		N
																702.85	491.9					

YJ06 / 45

BODY	ASTM A216 WCB-2008	V 14693	0.206	0.416	0.868	0.020	0.010	0.089	0.038	0.011	0.032	0.002		0.049	0.37	70.33	46.40	30	59	139		N
																484.91	319.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007		0.04	0.39	84.54	54.38	28	54	166		N
																582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9115	0.09	0.88	0.75	0.026	0.010	0.169	12.66	0.010	0.052					102.37	70.33	18.6	48	268		N
																705.82	484.9					

YJ06 / 46

BODY	ASTM A216 WCB-2008	V 14680	0.188	0.425	0.841	0.023	0.009	0.020	0.029	0.001	0.024	0.002	0.029	0.34	74.68	46.40	32	58	143		N
															514.90	319.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9118	0.12	1.02	0.81	0.027	0.014	0.139	12.30	0.011	0.038				103.53	73.95	20	48	268		N
															713.81	509.9					

YJ06 / 47

BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010	0.018	0.39	73.23	43.50	32	55	151		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	V 14728	0.219	0.428	0.801	0.020	0.011	0.028	0.045	0.002	0.028	0.002	0.046	0.37	73.95	47.13	30	54	137		N
															509.87	324.9					
WEDGE	ASTM A217 CA15-2007	D 9118	0.12	1.02	0.81	0.027	0.014	0.139	12.30	0.011	0.038				103.53	73.95	20	48	268		N
															713.81	509.9					

YJ06 / 48

BODY	ASTM A216 WCB-2008	V 14323	0.218	0.390	0.805	0.010	0.012	0.025	0.032	0.005	0.038	0.001	0.033	0.36	71.05	40.60	32	53	138		N
															489.87	279.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9116	0.11	0.88	0.76	0.025	0.011	0.152	12.70	0.010	0.034				103.68	73.66	19.3	49	272		N
															714.85	507.9					

YJ06 / 49

BODY	ASTM A216 WCB-2008	V 14135	0.203	0.401	0.760	0.024	0.010	0.015	0.030	0.004	0.034	0.002	0.049	0.35	72.50	40.60	34	54	148		N
															499.87	279.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9119	0.09	0.97	0.74	0.025	0.010	0.132	12.49	0.086	0.1038				105.56	75.55	19	49	266		N
															727.81	520.9					

YJ06 / 50

BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010	0.018	0.39	73.23	43.50	32	55	151		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9120	0.09	0.93	0.83	0.022	0.012	0.115	12.19	0.073	0.040				102.37	71.63	20	48	257		N
															705.82	493.9					

YJ06 / 51

BODY	ASTM A216 WCB-2008	V 14735	0.204	0.457	0.833	0.020	0.011	0.041	0.041	0.003	0.025	0.003	0.045	0.36	74.68	48.58	30	59	154		N
															514.90	334.9					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9138	0.09	0.91	0.75	0.025	0.011	0.154	12.77	0.094	0.036				107.59	77.87	20	52	269		N
															741.81	536.9					

YJ06 / 52

BODY	ASTM A216 WCB-2008	V 14547	0.192	0.441	0.808	0.023	0.011	0.147	0.041	0.004	0.031	0.004	0.037	0.35	74.68	48.58	32	57	150		N
															514.90	334.9					
BONNET	ASTM A216 WCB-2008	A 13167	0.210	0.42	0.91	0.029	0.011	0.039	0.092	0.006	0.026	0.006	0.016	0.39	76.56	45.53	26	52	156		N
															527.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 9122	0.11	0.95	0.82	0.025	0.010	0.141	12.44	0.091	0.037				104.40	74.68	20	51	264		N
															719.81	514.9					

YJ06 / 53

BODY	ASTM A216 WCB-2008	V 14673	0.199	0.481	0.914	0.023	0.008	0.032	0.044	0.008	0.033	0.002	0.048	0.37	73.23	45.68	31	60	142		N
															504.90	315					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					

BODY	ASTM A216 WCB-2008	V 14476	0.195	0.433	0.792	0.021	0.012	0.107	0.042	0.004	0.028	0.002	0.042	0.35	73.95	47.13	34	64	147		N
															509.87	324.9					
BONNET	ASTM A216 WCB-2008	A 13167	0.210	0.42	0.91	0.029	0.011	0.039	0.092	0.006	0.026	0.006	0.016	0.39	76.56	45.53	26	52	156		N
															527.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 9115	0.09	0.88	0.75	0.026	0.010	0.169	12.66	0.010	0.052				102.37	70.33	18.6	48	268		N
															705.82	484.9					

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BODY	ASTM A216 WCB-2008	V 14585	0.201	0.402	0.873	0.024	0.014	0.052	0.032	0.003	0.023	0.002	0.039	0.36	71.78	45.68	36	59	140		N
															494.91	315					
BONNET	ASTM A216 WCB-2008	W 18450	0.202	0.44	0.94	0.031	0.010	0.081	0.053	0.006	0.038	0.007	0.04	0.39	84.54	54.38	28	54	166		N
															582.88	374.9					
WEDGE	ASTM A217 CA15-2007	D 9122	0.11	0.95	0.82	0.025	0.010	0.141	12.44	0.091	0.037				104.40	74.68	20	51	264		N
															719.81	514.9					

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BODY	ASTM A216 WCB-2008	A 12671	0.210	0.41	0.93	0.024	0.010	0.051	0.065	0.004	0.046	0.010	0.018	0.39	73.23	43.50	32	55	151		N
															504.90	299.9					
BONNET	ASTM A216 WCB-2008	A 12680	0.210	0.46	0.89	0.026	0.010	0.023	0.060	0.004	0.033	0.007	0.009	0.38	76.56	45.82	26	52	156		N
															527.86	315.9					
WEDGE	ASTM A217 CA15-2007	D 9118	0.12	1.02	0.81	0.027	0.014	0.139	12.30	0.011	0.038				103.53	73.95	20	48	268		N
															713.81	509.9					

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 Jiangyin Eastern Valve company Ltd. : 