

Certificate/Serial/Job No: **XK306**

Quality Department: *John Ho*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
90	4	150	/ 103039	DSI 37XUF	GATE				12/20/2011

Pressure Test: API598	<input checked="" type="checkbox"/> Satisfactory	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]

XK306 / 1

BODY	ASTM A216 WCB-2008	W 13458	0.193	0.44	0.92	0.026	0.014	0.019	0.035	0.001	0.028	0.002					0.36	79.75	59.74	29	52	165							N
																		549.86	411.9										
BONNET	ASTM A216 WCB-2008	W 15832	0.207	0.44	0.98	0.030	0.013	0.023	0.035	0.004	0.030	0.005					0.38	77.43	53.22	29	58	171							N
																		533.86	366.9										
WEDGE	ASTM A216 WCB-2008	X 1063	0.19	0.48	0.81	0.010	0.017	0.15	0.19	0.20	0.12	0.015					0.43	81.78	53.51	40	39	171							N
																		563.85	368.9										

XK306 / 2

BODY	ASTM A216 WCB-2008	A 10749	0.210	0.47	0.84	0.024	0.015	0.027	0.055	0.001	0.043	0.004					0.007	0.37	75.40	44.95	26	54	155							N
																			519.86	309.9										
BONNET	ASTM A216 WCB-2008	W 16095	0.195	0.40	0.91	0.032	0.010	0.035	0.056	0.005	0.034	0.006					0.36		86.28	56.12	31	61	158							N
																			594.88	386.9										
WEDGE	ASTM A217 CA15-2007	D 5658	0.10	1.00	0.80	0.023	0.011	0.138	12.41	0.036	0.014								102.81	72.79	20	52	262							N
																			708.85	501.9										

XK306 / 3

BODY	ASTM A216 WCB-2008	A 10815	0.210	0.42	0.89	0.025	0.012	0.030	0.057	0.004	0.037	0.005					0.038	0.38	76.27	45.68	26	53	159							N
																			525.86	315										
BONNET	ASTM A216 WCB-2008	W 15779	0.204	0.42	0.91	0.030	0.013	0.026	0.037	0.008	0.037	0.007					0.37		80.91	50.90	28	58	160							N
																			557.85	350.9										
WEDGE	ASTM A217 CA15-2007	D 5662	0.13	0.96	0.80	0.023	0.010	0.127	12.23	0.036	0.013								104.98	73.81	19	48	260							N
																			723.81	508.9										

XK306 / 4

BODY	ASTM A216 WCB-2008	A 10842	0.210	0.46	0.86	0.029	0.017	0.018	0.039	0.001	0.031	0.004					0.005	0.37	75.40	44.95	26	55	155							N
																			519.86	309.9										
BONNET	ASTM A216 WCB-2008	A 10842	0.210	0.46	0.86	0.029	0.017	0.018	0.039	0.001	0.031	0.004					0.005	0.37	75.40	44.95	26	55	155							N
																			519.86	309.9										
WEDGE	ASTM A217 CA15-2007	D 5866	0.11	0.98	0.80	0.014	0.011	0.169	12.87	0.029	0.031								100.34	70.91	18.5	49	256							N
																			691.82	488.9										

XK306 / 5

BODY	ASTM A216 WCB-2008	A 10733	0.220	0.48	0.89	0.026	0.017	0.031	0.036	0.005	0.026	0.004		0.38	76.13	45.10	28	57	152		N
															524.9	311					
BONNET	ASTM A216 WCB-2008	W 15832	0.207	0.44	0.98	0.030	0.013	0.023	0.035	0.004	0.030	0.005		0.38	77.43	53.22	29	58	171		N
															533.86	366.9					
WEDGE	ASTM A217 CA15-2007	D 2921	0.12	0.87	0.80	0.029	0.010	0.194	12.61	0.094	0.052				101.50	70.91	18.3	49	263		N
															699.82	488.9					

XK306 / 6

BODY	ASTM A216 WCB-2008	A 10561	0.200	0.44	0.91	0.022	0.014	0.047	0.100	0.010	0.030	0.007		0.16	0.38	76.56	45.68	25	54	155		N
																527.86	315					
BONNET	ASTM A216 WCB-2008	W 16101	0.200	0.41	0.90	0.032	0.009	0.037	0.054	0.006	0.035	0.005		0.37	82.22	52.06	29	55	164		N	
																566.89	358.9					
WEDGE	ASTM A217 CA15-2007	D 5868	0.10	0.92	0.71	0.011	0.011	0.156	12.43	0.028	0.025				100.78	72.07	19	49	265		N	
															694.85	496.9						

XK306 / 7

BODY	ASTM A216 WCB-2008	A 9718	0.230	0.42	0.89	0.028	0.017	0.026	0.039	0.008	0.035	0.005		0.021	0.39	76.56	45.97	25	53	158		N
																527.86	317					
BONNET	ASTM A216 WCB-2008	W 15854	0.196	0.42	0.95	0.022	0.010	0.032	0.038	0.004	0.035	0.005		0.37	80.33	51.48	29	56	163		N	
																553.86	354.9					
WEDGE	ASTM A217 CA15-2007	D 5391	0.09	0.87	0.78	0.026	0.010	0.133	12.72	0.037	0.022				101.50	73.08	21	52	266		N	
															699.82	503.9						

XK306 / 8

BODY	ASTM A216 WCB-2008	W 15890	0.199	0.45	0.92	0.032	0.011	0.020	0.032	0.002	0.033	0.006		0.36	81.64	51.48	29	57	162		N	
																562.89	354.9					
BONNET	ASTM A216 WCB-2008	A 10816	0.200	0.40	0.84	0.024	0.015	0.022	0.061	0.003	0.041	0.005		0.18	0.36	73.08	43.50	31	58	149		N
																503.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 5658	0.10	1.00	0.80	0.023	0.011	0.138	12.41	0.036	0.014				102.81	72.79	20	52	262		N	
															708.85	501.9						

XK306 / 9

BODY	ASTM A216 WCB-2008	A 10769	0.210	0.45	0.88	0.026	0.018	0.027	0.047	0.002	0.032	0.005		0.37	76.85	46.26	25	51	160		N	
																529.86	319					
BONNET	ASTM A216 WCB-2008	A 10832	0.200	0.48	0.91	0.027	0.016	0.037	0.098	0.004	0.035	0.005		0.06	0.38	74.10	43.50	29	57	150		N
																510.90	299.9					
WEDGE	ASTM A216 WCB-2008	X 1051	0.20	0.48	0.83	0.018	0.015	0.17	0.21	0.19	0.120	0.017		0.44	79.90	51.62	40	39	169		N	
																550.89	355.9					

XK306 / 10

BODY	ASTM A216 WCB-2008	A 10813	0.200	0.47	0.87	0.022	0.011	0.025	0.052	0.002	0.032	0.009		0.02	0.36	72.50	43.36	30	58	150		N
																499.87	299					
BONNET	ASTM A216 WCB-2008	W 15787	0.199	0.45	0.97	0.024	0.012	0.023	0.032	0.005	0.030	0.007		0.37	78.01	51.48	29	58	157		N	
																537.86	354.9					
WEDGE	ASTM A217 CA15-2007	D 5380	0.10	0.91	0.81	0.026	0.011	0.154	12.80	0.033	0.017				102.66	72.94	20	50	259		N	
															707.82	502.9						

XK306 / 11

BODY	ASTM A216 WCB-2008	A 10730	0.210	0.46	0.89	0.027	0.015	0.022	0.046	0.001	0.034	0.006		0.01	0.37	76.42	45.53	26	54	159		N
																526.9	313.9					
BONNET	ASTM A216 WCB-2008	W 15973	0.198	0.43	0.87	0.023	0.011	0.030	0.041	0.004	0.025	0.005		0.36	83.38	53.80	29	52	169		N	
																574.88	370.9					
WEDGE	ASTM A217 CA15-2007	D 5391	0.09	0.87	0.78	0.026	0.010	0.133	12.72	0.037	0.022				101.50	73.08	21	52	266		N	
															699.82	503.9						

XK306 / 12

BODY	ASTM A216 WCB-2008	W 15434	0.210	0.46	0.97	0.034	0.011	0.039	0.047	0.001	0.026	0.007		0.03	0.37	75.55	47.27	29	56	163		N
																520.9	325.9					
BONNET	ASTM A216 WCB-2008	W 15787	0.199	0.45	0.97	0.024	0.012	0.023	0.032	0.005	0.030	0.007		0.37	78.01	51.48	29	58	157		N	
																537.86	354.9					

BODY	ASTM A216 WCB-2008	W 15027	0.191	0.41	0.96	0.022	0.010	0.025	0.027	0.007	0.036	0.008		0.36	74.10	43.50	30	58	154		N
															510.90	299.9					
BONNET	ASTM A216 WCB-2008	A 10827	0.210	0.48	0.82	0.028	0.016	0.026	0.049	0.001	0.032	0.005	0.041	0.36	72.50	43.21	31	57	150		N
															499.87	297.9					
WEDGE	ASTM A217 CA15-2007	D 3655	0.11	0.93	0.84	0.027	0.011	0.166	12.49	0.023	0.027				100.34	71.49	21	50	263		N
															691.82	492.9					

XK306 / 21

BODY	ASTM A216 WCB-2008	A 10816	0.200	0.40	0.84	0.024	0.015	0.022	0.061	0.003	0.041	0.005	0.018	0.36	73.08	43.50	31	58	149		N
															503.87	299.9					
BONNET	ASTM A216 WCB-2008	W 15980	0.208	0.42	0.91	0.025	0.014	0.044	0.045	0.004	0.032	0.006		0.38	75.69	47.27	30	48	167		N
															521.86	325.9					
WEDGE	ASTM A217 CA15-2007	D 3327	0.10	0.88	0.80	0.024	0.010	0.105	12.51	0.017	0.016				100.20	70.18	18.5	46	266		N
															690.85	483.9					

XK306 / 22

BODY	ASTM A216 WCB-2008	A 10758	0.210	0.44	0.92	0.025	0.017	0.014	0.045	0.004	0.034	0.005	0.012	0.38	72.50	43.36	30	57	151		N
															499.87	299					
BONNET	ASTM A216 WCB-2008	W 15892	0.208	0.46	0.98	0.030	0.014	0.023	0.035	0.003	0.029	0.006		0.38	80.91	50.90	29	57	169		N
															557.85	350.9					
WEDGE	ASTM A217 CA15-2007	D 5667	0.12	1.03	0.80	0.026	0.011	0.148	12.33	0.035	0.026				102.81	72.94	19	45	262		N
															708.85	502.9					

XK306 / 23

BODY	ASTM A216 WCB-2008	A 10810	0.210	0.48	0.84	0.029	0.016	0.030	0.061	0.004	0.041	0.006	0.06	0.37	72.50	43.21	31	58	149		N
															499.87	297.9					
BONNET	ASTM A216 WCB-2008	A 10818	0.210	0.46	0.90	0.028	0.018	0.014	0.039	0.005	0.030	0.005	0.018	0.37	72.50	43.36	30	57	151		N
															499.87	299					
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					

XK306 / 24

BODY	ASTM A216 WCB-2008	A 10829	0.210	0.49	0.91	0.029	0.016	0.021	0.043	0.001	0.031	0.005	0.004	0.37	72.50	43.36	31	58	149		N
															499.87	299					
BONNET	ASTM A216 WCB-2008	W 16007	0.207	0.45	0.98	0.030	0.013	0.033	0.052	0.003	0.029	0.005		0.39	77.43	48.43	30	54	157		N
															533.86	333.9					
WEDGE	ASTM A217 CA15-2007	D 2920	0.12	0.85	0.81	0.026	0.010	0.169	12.76	0.049	0.082				102.23	71.92	20	46	267		N
															704.85	495.9					

XK306 / 25

BODY	ASTM A216 WCB-2008	A 10841	0.220	0.44	0.93	0.030	0.017	0.025	0.050	0.004	0.037	0.005	0.019	0.39	72.50	43.50	31	58	149		N
															499.87	299.9					
BONNET	ASTM A216 WCB-2008	W 15706	0.199	0.48	0.91	0.018	0.008	0.026	0.054	0.007	0.039	0.005		0.37	82.22	50.17	33	58	174		N
															566.89	345.9					
WEDGE	ASTM A217 CA15-2007	D 5848	0.11	0.95	0.80	0.026	0.011	0.116	12.56	0.032	0.019				101.50	72.50	18.4	50	259		N
															699.82	499.9					

XK306 / 26

BODY	ASTM A216 WCB-2008	A 10723	0.200	0.44	0.83	0.024	0.012	0.022	0.055	0.004	0.048	0.005	0.017	0.36	75.84	44.95	26	54	156		N
															522.9	309.9					
BONNET	ASTM A216 WCB-2008	W 16000	0.199	0.40	0.92	0.033	0.013	0.032	0.044	0.003	0.034	0.005		0.37	82.80	53.80	28	47	165		N
															570.89	370.9					
WEDGE	ASTM A217 CA15-2007	D 2921	0.12	0.87	0.80	0.029	0.010	0.194	12.61	0.094	0.052				101.50	70.91	18.3	49	263		N
															699.82	488.9					

XK306 / 27

BODY	ASTM A216 WCB-2008	W 15852	0.195	0.48	0.95	0.031	0.010	0.020	0.028	0.002	0.022	0.005		0.36	81.64	51.48	28	53	162		N
															562.89	354.9					
BONNET	ASTM A216 WCB-2008	W 15964	0.196	0.42	0.89	0.029	0.011	0.022	0.036	0.003	0.025	0.006		0.36	84.54	54.96	29	56	163		N
															582.88	378.9					

BODY	ASTM A216 WCB-2008	A 10567	0.210	0.44	0.97	0.027	0.016	0.025	0.052	0.006	0.006	0.006	0.017	0.39	76.42	45.10	26	55	157		N
															526.9	311					
BONNET	ASTM A216 WCB-2008	W 15980	0.208	0.42	0.91	0.025	0.014	0.044	0.045	0.004	0.032	0.006		0.38	75.69	47.27	30	48	167		N
															521.86	325.9					
WEDGE	ASTM A217 CA15-2007	D 5658	0.10	1.00	0.80	0.023	0.011	0.138	12.41	0.036	0.014				102.81	72.79	20	52	262		N
															708.85	501.9					

XK306 / 36

BODY	ASTM A216 WCB-2008	W 15891	0.192	0.51	0.98	0.028	0.011	0.025	0.040	0.003	0.032	0.006		0.37	83.96	54.96	29	54	171		N
															578.88	378.9					
BONNET	ASTM A216 WCB-2008	W 15940	0.197	0.45	0.93	0.028	0.010	0.024	0.035	0.003	0.030	0.006		0.36	80.33	51.48	25	55	166		N
															553.86	354.9					
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					

XK306 / 37

BODY	ASTM A216 WCB-2008	A 10819	0.200	0.47	0.85	0.027	0.015	0.014	0.038	0.002	0.035	0.005	0.06	0.35	74.53	43.94	29	56	153		N
															513.87	303					
BONNET	ASTM A216 WCB-2008	W 16014	0.210	0.40	0.97	0.028	0.008	0.026	0.042	0.003	0.031	0.005		0.39	83.96	54.96	30	55	174		N
															578.88	378.9					
WEDGE	ASTM A217 CA15-2007	D 5656	0.13	1.01	0.88	0.025	0.010	0.145	12.54	0.044	0.013				103.10	73.66	19.6	51	262		N
															710.85	507.9					

XK306 / 38

BODY	ASTM A216 WCB-2008	A 10584	0.220	0.50	0.95	0.024	0.012	0.022	0.050	0.005	0.038	0.005	0.053	0.39	76.42	45.53	26	54	155		N
															526.9	313.9					
BONNET	ASTM A216 WCB-2008	W 16064	0.202	0.43	0.93	0.028	0.013	0.032	0.157	0.005	0.034	0.007		0.40	87.44	59.74	27	47	159		N
															602.88	411.9					
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					

XK306 / 39

BODY	ASTM A216 WCB-2008	A 10798	0.220	0.42	0.86	0.029	0.021	0.026	0.098	0.001	0.038	0.005	0.011	0.39	76.56	45.53	26	53	159		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 10785	0.220	0.50	0.93	0.028	0.019	0.029	0.046	0.003	0.038	0.006	0.043	0.39	75.84	44.95	26	55	154		N
															522.9	309.9					
WEDGE	ASTM A217 CA15-2007	D 5853	0.11	0.96	0.75	0.025	0.011	0.145	12.46	0.032	0.016				99.91	71.63	19.2	47	263		N
															688.86	493.9					

XK306 / 40

BODY	ASTM A216 WCB-2008	A 10566	0.200	0.47	0.88	0.023	0.013	0.036	0.054	0.005	0.041	0.004	0.009	0.36	74.24	44.37	27	56	151		N
															511.87	305.9					
BONNET	ASTM A216 WCB-2008	W 16034	0.207	0.45	0.93	0.027	0.008	0.023	0.034	0.004	0.031	0.005		0.37	82.80	53.80	29	54	165		N
															570.89	370.9					
WEDGE	ASTM A217 CA15-2007	D 5857	0.09	0.95	0.78	0.022	0.010	0.134	12.43	0.033	0.013				103.97	73.95	21	48	260		N
															716.85	509.9					

XK306 / 41

BODY	ASTM A216 WCB-2008	W 15776	0.198	0.48	0.96	0.028	0.010	0.022	0.039	0.004	0.036	0.006		0.37	78.59	49.59	32	45	166		N
															541.86	341.9					
BONNET	ASTM A216 WCB-2008	W 15979	0.209	0.49	0.94	0.030	0.015	0.027	0.041	0.004	0.030	0.006		0.38	76.27	47.27	30	55	169		N
															525.86	325.9					
WEDGE	ASTM A217 CA15-2007	D 5655	0.12	0.89	0.83	0.025	0.011	0.129	12.77	0.043	0.017				103.53	73.23	19	50	259		N
															713.81	504.9					

XK306 / 42

BODY	ASTM A216 WCB-2008	A 10783	0.220	0.45	0.83	0.024	0.015	0.025	0.042	0.003	0.027	0.005	0.026	0.37	74.24	44.37	27	56	153		N
															511.87	305.9					
BONNET	ASTM A216 WCB-2008	W 15710	0.191	0.42	0.93	0.026	0.013	0.026	0.057	0.005	0.034	0.007		0.36	82.22	53.22	31	63	163		N
															566.89	366.9					

BODY	ASTM A216 WCB-2008	A 10824	0.220	0.44	0.92	0.025	0.016	0.014	0.036	0.001	0.035	0.005	0.017	0.39	74.39	44.81	27	55	154		N	
BONNET	ASTM A216 WCB-2008	W 15769	0.200	0.39	0.88	0.030	0.010	0.027	0.039	0.005	0.036	0.006		0.36	512.90	309						N
WEDGE	ASTM A216 WCB-2008	X 1059	0.23	0.48	0.86	0.020	0.019	0.21	0.22	0.18	0.12	0.017		0.48	80.91	52.64	30	54	155		N	
															557.85	362.9						
															81.78	52.93	39	41	170			
															563.85	364.9						


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
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.

<p>EC Declaration of Conformity: JEV (Jiangyin Eastern Valve Co. Ltd.), Jiangsu Province, 214423, P.R. China</p> <p>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.</p>	<p>Undersigned by Liu Jian Qing, representing Jianyin Eastern Valve company Ltd. :</p> 
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