

**Certificate/Serial/Job No:** YJ130

*Quality Department: John Ho*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
98	4	150	/ 103039	DSI 37XUF	GATE				8/1/2012

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

YJ130 / 41

BODY	ASTM A216 WCB-2008	A 12547	0.220	0.51	0.96	0.029	0.016	0.037	0.088	0.007	0.037	0.007				0.006	0.41	75.40	44.95	28	57	153							N
																		519.86	309.9										
BONNET	ASTM A216 WCB-2008	W 16625	0.208	0.44	0.91	0.032	0.013	0.056	0.065	0.006	0.037	0.011					0.38	83.96	56.12	28	52	169							N
																		578.88	386.9										
WEDGE	ASTM A217 CA15-2007	D 5397	0.09	0.83	0.78	0.024	0.011	0.134	12.64	0.021	0.011						102.66	73.95	19.3	49	262							N	
																		707.82	509.9										

YJ130 / 42

BODY	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										
BONNET	ASTM A216 WCB-2008	W 16652	0.203	0.45	0.97	0.026	0.009	0.034	0.051	0.004	0.034	0.007					0.38	82.07	53.80	29	57	168							N
																		565.85	370.9										
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										

YJ130 / 43

BODY	ASTM A216 WCB-2008	A 12569	0.210	0.44	0.97	0.028	0.015	0.030	0.051	0.001	0.034	0.005				0.009	0.39	74.53	44.23	32	57	153							N
																		513.87	305										
BONNET	ASTM A216 WCB-2008	W 16685	0.210	0.45	0.97	0.026	0.010	0.061	0.046	0.003	0.034	0.007					0.39	79.75	52.06	28	57	164							N
																		549.86	358.9										
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										

YJ130 / 44

BODY	ASTM A216 WCB-2008	A 12552	0.200	0.42	0.87	0.027	0.015	0.053	0.122	0.012	0.034	0.005				0.013	0.38	73.08	43.21	32	56	150							N
																		503.87	297.9										
BONNET	ASTM A216 WCB-2008	A 11703	0.210	0.44	0.86	0.024	0.018	0.026	0.048	0.001	0.043	0.005					0.37	75.84	44.95	29	56	153							N
																		522.9	309.9										
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										

YJ130 / 45

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	W 16671	0.203	0.43	0.94	0.024	0.010	0.051	0.048	0.005	0.036	0.007		0.38	75.11	53.22	29	57	171		N
															517.87	366.9					
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					

**YJ130 / 46**

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 11837	0.210	0.43	0.87	0.026	0.011	0.025	0.051	0.001	0.041	0.005	0.014	0.37	73.23	42.92	31	58	151		N
															504.90	295.9					
WEDGE	ASTM A217 CA15-2007	D 5901	0.10	0.93	0.79	0.022	0.011	0.107	12.63	0.038	0.013				105.13	74.39	20	48	266		N
															724.85	512.9					

**YJ130 / 47**

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	W 16898	0.198	0.49	0.97	0.021	0.011	0.047	0.038	0.004	0.034	0.004	0.052	0.37	82.07	54.96	29	57	158		N
															565.85	378.9					
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					

**YJ130 / 48**

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	W 16700	0.207	0.47	0.88	0.027	0.013	0.057	0.040	0.002	0.024	0.006		0.37	80.33	53.80	29	55	153		N
															553.86	370.9					
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					

**YJ130 / 49**

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	W 16652	0.203	0.45	0.97	0.026	0.009	0.034	0.051	0.004	0.034	0.007		0.38	82.07	53.80	29	57	168		N
															565.85	370.9					
WEDGE	ASTM A217 CA15-2007	D 5852	0.10	1.01	0.73	0.026	0.011	0.152	12.41	0.035	0.027				102.08	73.23	19	49	256		N
															703.82	504.9					

**YJ130 / 50**

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	W 16687	0.205	0.46	0.98	0.024	0.009	0.035	0.047	0.003	0.035	0.008		0.39	80.91	54.38	28	56	163		N
															557.85	374.9					
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					

**YJ130 / 51**

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 11704	0.200	0.43	0.90	0.027	0.012	0.023	0.052	0.001	0.050	0.005	0.021	0.37	73.23	43.21	32	58	152		N
															504.90	297.9					
WEDGE	ASTM A217 CA15-2007	D 5892	0.13	0.92	0.80	0.011	0.011	0.255	12.70	0.052	0.078				103.39	72.79	20	48	262		N
															712.85	501.9					

**YJ130 / 52**

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	W 16687	0.205	0.46	0.98	0.024	0.009	0.035	0.047	0.003	0.035	0.008		0.39	80.91	54.38	28	56	163		N
															557.85	374.9					

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					

**YJ130 / 53**

BODY	ASTM A216 WCB-2008	A 12547	0.220	0.51	0.96	0.029	0.016	0.037	0.088	0.007	0.037	0.007		0.006	0.41	75.40	44.95	28	57	153		N
																519.86	309.9					
BONNET	ASTM A216 WCB-2008	A 11710	0.200	0.44	0.88	0.028	0.012	0.02	0.044	0.001	0.036	0.005		0.031	0.36	76.56	45.97	26	53	155		N
																527.86	317					
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					

**YJ130 / 54**

BODY	ASTM A216 WCB-2008	A 12552	0.200	0.42	0.87	0.027	0.015	0.053	0.122	0.012	0.034	0.005		0.013	0.38	73.08	43.21	32	56	150		N
																503.87	297.9					
BONNET	ASTM A216 WCB-2008	W 16898	0.198	0.49	0.97	0.021	0.011	0.047	0.038	0.004	0.034	0.004		0.052	0.37	82.07	54.96	29	57	158		N
																565.85	378.9					
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					

**YJ130 / 55**

BODY	ASTM A216 WCB-2008	A 12569	0.210	0.44	0.97	0.028	0.015	0.030	0.051	0.001	0.034	0.005		0.009	0.39	74.53	44.23	32	57	153		N
																513.87	305					
BONNET	ASTM A216 WCB-2008	A 11570	0.200	0.44	0.88	0.024	0.013	0.018	0.038	0.004	0.033	0.004		0.049	0.36	76.13	45.53	29	56	158		N
																524.9	313.9					
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					

**YJ130 / 56**

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 11831	0.230	0.45	0.88	0.027	0.033	0.031	0.051	0.003	0.046	0.003		0.39		76.56	46.26	26	53	155		N
																527.86	319					
WEDGE	ASTM A217 CA15-2007	D 5395	0.10	0.89	0.82	0.026	0.010	0.136	12.66	0.022	0.011					103.97	73.37	21	52	254		N
																716.85	505.9					

**YJ130 / 57**

BODY	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					
BONNET	ASTM A216 WCB-2008	W 16678	0.191	0.41	0.94	0.021	0.011	0.058	0.035	0.002	0.034	0.005		0.36		78.01	60.32	27	58	162		N
																537.86	415.9					
WEDGE	ASTM A217 CA15-2007	D 5395	0.10	0.89	0.82	0.026	0.010	0.136	12.66	0.022	0.011					103.97	73.37	21	52	254		N
																716.85	505.9					

**YJ130 / 58**

BODY	ASTM A216 WCB-2008	W 18004	0.201	0.45	0.91	0.026	0.009	0.053	0.042	0.004	0.032	0.009		0.038	0.38	82.22	52.06	29	59	172		N
																566.89	358.9					
BONNET	ASTM A216 WCB-2008	W 16625	0.208	0.44	0.91	0.032	0.013	0.056	0.065	0.006	0.037	0.011		0.38		83.96	56.12	28	52	169		N
																578.88	386.9					
WEDGE	ASTM A217 CA15-2007	D 5397	0.09	0.83	0.78	0.024	0.011	0.134	12.64	0.021	0.011					102.66	73.95	19.3	49	262		N
																707.82	509.9					

**YJ130 / 59**

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 11570	0.200	0.44	0.88	0.024	0.013	0.018	0.038	0.004	0.033	0.004		0.049	0.36	76.13	45.53	29	56	158		N
																524.9	313.9					
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					

**YJ130 / 60**

BODY	ASTM A216 WCB-2008	A 12583	0.210	0.43	0.87	0.029	0.014	0.041	0.096	0.003	0.035	0.004	0.004	0.38	74.97	44.81	32	57	150		N
															516.9	309					
BONNET	ASTM A216 WCB-2008	W 16678	0.191	0.41	0.94	0.021	0.011	0.058	0.035	0.002	0.034	0.005		0.36	78.01	60.32	27	58	162		N
															537.86	415.9					
WEDGE	ASTM A217 CA15-2007	D 5901	0.10	0.93	0.79	0.022	0.011	0.107	12.63	0.038	0.013				105.13	74.39	20	48	266		N
															724.85	512.9					

**YJ130 / 61**

BODY	ASTM A216 WCB-2008	A 12586	0.210	0.42	0.86	0.025	0.014	0.034	0.071	0.002	0.036	0.004	0.025	0.37	74.68	44.37	32	56	150		N
															514.90	305.9					
BONNET	ASTM A216 WCB-2008	A 11717	0.210	0.42	0.89	0.027	0.016	0.027	0.062	0.001	0.047	0.006	0.012	0.38	76.56	45.10	27	53	157		N
															527.86	311					
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					

**YJ130 / 62**

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	W 16678	0.191	0.41	0.94	0.021	0.011	0.058	0.035	0.002	0.034	0.005		0.36	78.01	60.32	27	58	162		N
															537.86	415.9					
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					

**YJ130 / 63**

BODY	ASTM A216 WCB-2008	A 12558	0.220	0.41	0.91	0.025	0.013	0.038	0.084	0.007	0.031	0.006	0.006	0.40	75.40	45.10	30	55	150		N
															519.86	311					
BONNET	ASTM A216 WCB-2008	W 16652	0.203	0.45	0.97	0.026	0.009	0.034	0.051	0.004	0.034	0.007		0.38	82.07	53.80	29	57	168		N
															565.85	370.9					
WEDGE	ASTM A217 CA15-2007	D 5873	0.12	0.91	0.71	0.016	0.011	0.159	12.22	0.025	0.022				106.00	75.11	21	52	267		N
															730.84	517.9					

**YJ130 / 64**

BODY	ASTM A216 WCB-2008	W 18019	0.205	0.44	0.92	0.032	0.014	0.038	0.045	0.008	0.038	0.007	0.04	0.38	83.38	53.22	28	54	166		N
															574.88	366.9					
BONNET	ASTM A216 WCB-2008	W 16898	0.198	0.49	0.97	0.021	0.011	0.047	0.038	0.004	0.034	0.004	0.052	0.37	82.07	54.96	29	57	158		N
															565.85	378.9					
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					

**YJ130 / 65**

BODY	ASTM A216 WCB-2008	W 18045	0.201	0.45	0.94	0.031	0.011	0.033	0.045	0.005	0.036	0.006	0.055	0.38	77.43	48.43	29	57	173		N
															533.86	333.9					
BONNET	ASTM A216 WCB-2008	A 11719	0.210	0.50	0.94	0.025	0.017	0.026	0.049	0.001	0.046	0.007		0.38	74.68	44.37	33	58	152		N
															514.90	305.9					
WEDGE	ASTM A217 CA15-2007	D 5873	0.12	0.91	0.71	0.016	0.011	0.159	12.22	0.025	0.022				106.00	75.11	21	52	267		N
															730.84	517.9					

**YJ130 / 66**

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	W 16678	0.191	0.41	0.94	0.021	0.011	0.058	0.035	0.002	0.034	0.005		0.36	78.01	60.32	27	58	162		N
															537.86	415.9					
WEDGE	ASTM A217 CA15-2007	D 5846	0.09	0.91	0.80	0.025	0.011	0.131	12.40	0.034	0.011				102.08	70.76	19.6	49	261		N
															703.82	487.9					

**YJ130 / 67**

BODY	ASTM A216 WCB-2008	A 12551	0.220	0.46	0.98	0.029	0.013	0.041	0.104	0.006	0.040	0.006	0.053	0.41	75.98	45.39	27	55	156		N
															523.86	313					
BONNET	ASTM A216 WCB-2008	A 11701	0.200	0.50	0.95	0.029	0.014	0.042	0.1	0.001	0.042	0.006	0.018	0.39	76.42	46.11	28	52	156		N
															526.9	317.9					



BODY	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					
BONNET	ASTM A216 WCB-2008	W 16625	0.208	0.44	0.91	0.032	0.013	0.056	0.065	0.006	0.037	0.011		0.38	83.96	56.12	28	52	169		N
															578.88	386.9					
WEDGE	ASTM A217 CA15-2007	D 5871	0.11	1.07	0.90	0.027	0.011	0.157	12.40	0.093	0.031				103.53	74.10	20	51	260		N
															713.81	510.9					

**YJ130 / 76**

BODY	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					
BONNET	ASTM A216 WCB-2008	A 11704	0.200	0.43	0.90	0.027	0.012	0.023	0.052	0.001	0.050	0.005	0.021	0.37	73.23	43.21	32	58	152		N
															504.90	297.9					
WEDGE	ASTM A217 CA15-2007	D 5664	0.13	0.92	0.79	0.024	0.010	0.140	12.71	0.042	0.017				103.39	74.10	20	47	264		N
															712.85	510.9					

**YJ130 / 77**

BODY	ASTM A216 WCB-2008	W 17469	0.191	0.47	0.98	0.027	0.008	0.028	0.043	0.004	0.040	0.007	0.052	0.38	82.07	52.06	28	52	166		N
															565.85	358.9					
BONNET	ASTM A216 WCB-2008	W 16678	0.191	0.41	0.94	0.021	0.011	0.058	0.035	0.002	0.034	0.005		0.36	78.01	60.32	27	58	162		N
															537.86	415.9					
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					

**YJ130 / 78**

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 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					
WEDGE	ASTM A217 CA15-2007	D 5899	0.11	0.83	0.75	0.011	0.012	0.205	12.43	0.051	0.020				105.56	74.24	20.2	51	255		N
															727.81	511.9					

**YJ130 / 79**

BODY	ASTM A216 WCB-2008	A 12553	0.200	0.46	0.95	0.029	0.012	0.027	0.057	0.007	0.034	0.005	0.032	0.38	74.97	44.37	30	57	152		N
															516.9	305.9					
BONNET	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					
WEDGE	ASTM A217 CA15-2007	D 5654	0.10	0.93	0.80	0.023	0.010	0.125	12.56	0.027	0.011				102.81	72.94	19	51	265		N
															708.85	502.9					

**YJ130 / 80**

BODY	ASTM A216 WCB-2008	A 11706	0.210	0.44	0.90	0.024	0.014	0.019	0.034	0.001	0.041	0.007	0.017	0.37	74.53	44.23	32	57	153		N
															513.87	305					
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 A216 WCB-2008	X 1057	0.20	0.48	0.72	0.015	0.017	0.21	0.12	0.13	0.13	0.015		0.40	82.51	53.22	32	40	171		N
															568.89	366.9					

**YJ130 / 81**

BODY	ASTM A216 WCB-2008	A 12547	0.220	0.51	0.96	0.029	0.016	0.037	0.088	0.007	0.037	0.007	0.006	0.41	75.40	44.95	28	57	153		N
															519.86	309.9					
BONNET	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					
WEDGE	ASTM A217 CA15-2007	D 5901	0.10	0.93	0.79	0.022	0.011	0.107	12.63	0.038	0.013				105.13	74.39	20	48	266		N
															724.85	512.9					

**YJ130 / 82**

BODY	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					
BONNET	ASTM A216 WCB-2008	A 11839	0.200	0.45	0.91	0.023	0.014	0.026	0.048	0.001	0.040	0.007	0.014	0.37	75.98	45.10	29	55	154		N
															523.86	311					

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					

**YJ130 / 83**

BODY	ASTM A216 WCB-2008	A 12552	0.200	0.42	0.87	0.027	0.015	0.053	0.122	0.012	0.034	0.005		0.013	0.38	73.08	43.21	32	56	150		N
																503.87	297.9					
BONNET	ASTM A216 WCB-2008	A 11838	0.200	0.39	0.84	0.024	0.014	0.022	0.042	0.001	0.039	0.005		0.048	0.35	74.53	44.81	28	56	153		N
																513.87	309					
WEDGE	ASTM A217 CA15-2007	D 5892	0.13	0.92	0.80	0.011	0.011	0.255	12.70	0.052	0.078					103.39	72.79	20	48	262		N
																712.85	501.9					

**YJ130 / 84**

BODY	ASTM A216 WCB-2008	E 3048	0.20	0.46	0.88	0.022	0.016	0.018	0.05	0.004	0.018	0.001			0.36	84.10	41.47	30	46	159		N
																579.85	285.9					
BONNET	ASTM A216 WCB-2008	W 16885	0.195	0.42	0.936	0.026	0.012	0.038	0.037	0.005	0.037	0.006			0.37	77.43	50.75	29	53	171		N
																533.86	349.9					
WEDGE	ASTM A217 CA15-2007	D 5892	0.13	0.92	0.80	0.011	0.011	0.255	12.70	0.052	0.078					103.39	72.79	20	48	262		N
																712.85	501.9					

**YJ130 / 85**

BODY	ASTM A216 WCB-2008	A 9694	0.220	0.46	0.80	0.023	0.016	0.023	0.062	0.013	0.022	0.005			0.37	74.97	44.37	32	57	155		N
																516.9	305.9					
BONNET	ASTM A216 WCB-2008	W 16671	0.203	0.43	0.94	0.024	0.010	0.051	0.048	0.005	0.036	0.007			0.38	75.11	53.22	29	57	171		N
																517.87	366.9					
WEDGE	ASTM A216 WCB-2008	X 1058	0.20	0.49	0.90	0.019	0.018	0.23	0.21	0.13	0.13	0.016			0.46	81.78	52.35	40	38	173		N
																563.85	360.9					

**YJ130 / 86**

BODY	ASTM A216 WCB-2008	A 11696	0.220	0.47	0.96	0.027	0.017	0.025	0.05	0.008	0.041	0.005			0.40	76.27	45.10	29	54	156		N
																525.86	311					
BONNET	ASTM A216 WCB-2008	W 16898	0.198	0.49	0.97	0.021	0.011	0.047	0.038	0.004	0.034	0.004			0.37	82.07	54.96	29	57	158		N
																565.85	378.9					
WEDGE	ASTM A217 CA15-2007	D 2305	0.11	1.00	0.81	0.024	0.011	0.224	12.87	0.038	0.088					103.68	74.53	18.8	46	270		N
																714.85	513.9					

**YJ130 / 87**

BODY	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			0.37	74.68	44.08	32	57	152		N
																514.90	303.9					
BONNET	ASTM A216 WCB-2008	W 16652	0.203	0.45	0.97	0.026	0.009	0.034	0.051	0.004	0.034	0.007			0.38	82.07	53.80	29	57	168		N
																565.85	370.9					
WEDGE	ASTM A217 CA15-2007	D 5875	0.11	1.09	0.82	0.012	0.011	0.152	13.27	0.041	0.010					104.11	73.95	20	49	265		N
																717.81	509.9					

**YJ130 / 88**

BODY	ASTM A216 WCB-2008	A 12578	0.200	0.41	0.81	0.025	0.013	0.028	0.058	0.005	0.037	0.004			0.35	74.39	44.37	31	56	152		N
																512.90	305.9					
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			0.38	76.42	45.82	26	54	155		N
																526.9	315.9					
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					

**YJ130 / 89**

BODY	ASTM A216 WCB-2008	W 16889	0.202	0.48	0.936	0.027	0.013	0.03	0.04	0.004	0.035	0.005			0.37	84.54	52.06	28	54	171		N
																582.88	358.9					
BONNET	ASTM A216 WCB-2008	A 11709	0.210	0.53	0.95	0.028	0.014	0.008	0.028	0.006	0.043	0.006			0.38	73.23	43.79	32	56	151		N
																504.90	301.9					
WEDGE	ASTM A216 WCB-2008	X 1057	0.20	0.48	0.72	0.015	0.017	0.21	0.12	0.13	0.13	0.015			0.40	82.51	53.22	32	40	171		N
																568.89	366.9					

**YJ130 / 90**

BODY	ASTM A216 WCB-2008	W 17175	0.207	0.45	0.918	0.026	0.008	0.025	0.033	0.004	0.034	0.005	0.044	0.38	81.49	51.48	29	57	161		N
															561.85	354.9					
BONNET	ASTM A216 WCB-2008	A 12563	0.220	0.44	0.99	0.026	0.012	0.029	0.062	0.007	0.032	0.004	0.04	0.40	76.42	45.24	26	54	157		N
															526.9	311.9					
WEDGE	ASTM A216 WCB-1993	X 0456	0.18	0.50	0.87	0.013	0.011	0.014	0.012	0.012	0.11	0.013		0.34	75.69	51.04	35	37	168		N
															521.86	351.9					

**YJ130 / 91**

BODY	ASTM A216 WCB-2008	A 11709	0.210	0.53	0.95	0.028	0.014	0.008	0.028	0.006	0.043	0.006	0.028	0.38	73.23	43.79	32	56	151		N
															504.90	301.9					
BONNET	ASTM A216 WCB-2008	A 12584	0.200	0.45	0.86	0.023	0.012	0.023	0.049	0.004	0.030	0.004	0.003	0.36	73.08	43.21	33	58	149		N
															503.87	297.9					
WEDGE	ASTM A216 WCB-2008	X 1057	0.20	0.48	0.72	0.015	0.017	0.21	0.12	0.13	0.13	0.015		0.40	82.51	53.22	32	40	171		N
															568.89	366.9					

**Heat Treatment Codes:**

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

**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 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.

Undersigned by Liu Jian Qing, representing Jianyin Eastern Valve company Ltd. : 