

Certificate/Serial/Job No:

YF03

Quality Department: *John Ho*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
75	2	150	/ 103020	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]

YF03 / 1

BODY	ASTM A216 WCB-2007	W 11813	0.209	0.48	0.92	0.029	0.012	0.010	0.022	0.001	0.028	0.002						0.37	74.39	46.69	25.0	46.0	165						N
BONNET	ASTM A216 WCB-2008	W 12325	0.220	0.390	0.92	0.036	0.012	0.031	0.045	0.001	0.028	0.005						0.39	74.82	48.72	25	47	163						N
WEDGE	ASTM A217 CA15-2007	D 7781	0.09	0.87	0.72	0.023	0.010	0.105	12.60	0.027	0.025								515.87	335.9	109.48	77.00	19.7	51	256				N
																			754.84	530.9									

YF03 / 2

BODY	ASTM A216 WCB-2008	A 9271	0.220	0.45	0.88	0.021	0.012	0.015	0.029	0.001	0.017	0.003						0.38	74.97	44.81	28	56	153						N
BONNET	ASTM A216 WCB-2008	A 9595	0.220	0.43	0.85	0.028	0.020	0.026	0.058	0.007	0.036	0.005						0.38	75.84	44.95	28	55	153						N
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042								522.9	309.9	108.32	75.69	19.8	52	253				N
																			746.84	521.9									

YF03 / 3

BODY	ASTM A216 WCB-2008	A 8647	0.200	0.42	0.81	0.023	0.016	0.024	0.046	0.003	0.025	0.004						0.35	75.69	44.95	26.0	54.0	158						N
BONNET	ASTM A216 WCB-2008	A 9588	0.230	0.40	0.80	0.023	0.014	0.028	0.067	0.005	0.038	0.005						0.38	521.86	309.9	76.56	45.53	26	53	159				N
WEDGE	ASTM A217 CA15-2007	D 6723	0.12	0.91	0.83	0.025	0.010	0.118	12.30	0.011	0.030								527.86	313.9	105.27	75.84	20.3	53	253				N
																			725.81	522.9									

YF03 / 4

BODY	ASTM A216 WCB-2007	A 8456	0.200	0.43	0.85	0.028	0.017	0.026	0.079	0.005	0.034	0.005						0.36	75.84	45.10	26.0	53.0	158						N
BONNET	ASTM A216 WCB-2008	W 12807	0.191	0.448	0.883	0.030	0.017	0.069	0.119	0.013	0.035	0.004						0.37	522.9	311	74.24	45.68	27	50	162				N
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034								511.87	315	106.00	74.97	19.2	50	258				N
																			730.84	516.9									

YF03 / 5

BODY	ASTM A216 WCB-2007	A 8465	0.218	0.44	0.89	0.028	0.020	0.033	0.073	0.010	0.040	0.006	0.005	0.39	74.53	43.94	29.0	56.0	150		N
															513.87	303					
BONNET	ASTM A216 WCB-2007	A 8471	0.200	0.40	0.82	0.026	0.019	0.026	0.053	0.001	0.030	0.005	0.03	0.35	73.95	43.79	30.0	57.0	150		N
															509.87	301.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

**YF03 / 6**

BODY	ASTM A216 WCB-2008	W 17335	0.210	0.46	0.91	0.030	0.017	0.040	0.050	0.007	0.038	0.007	0.052	0.39	83.96	55.54	29	57	158		N
															578.88	382.9					
BONNET	ASTM A216 WCB-2008	A 8348	0.200	0.46	0.85	0.028	0.018	0.031	0.066	0.004	0.033	0.005	0.03	0.36	77.72	46.40	24.0	50.0	162		N
															535.86	319.9					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 7**

BODY	ASTM A216 WCB-2008	A 9577	0.220	0.40	0.82	0.022	0.014	0.025	0.036	0.001	0.029	0.004	0.021	0.37	72.79	43.21	31	58	150		N
															501.87	297.9					
BONNET	ASTM A216 WCB-2008	W 13059	0.196	0.49	1.00	0.030	0.014	0.026	0.033	0.001	0.024	0.006		0.37	82.80	54.96	28	52	154		N
															570.89	378.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

**YF03 / 8**

BODY	ASTM A216 WCB-2008	W 14702	0.199	0.40	0.99	0.027	0.011	0.031	0.036	0.001	0.044	0.011		0.38	83.38	53.80	30	55	163		N
															574.88	370.9					
BONNET	ASTM A216 WCB-2008	W 12807	0.191	0.448	0.883	0.030	0.017	0.069	0.119	0.013	0.035	0.004		0.37	74.24	45.68	27	50	162		N
															511.87	315					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

**YF03 / 9**

BODY	ASTM A216 WCB-2008	A 8640	0.200	0.41	0.80	0.032	0.019	0.022	0.050	0.001	0.027	0.005	0.019	0.35	74.10	43.79	28.0	56.0	152		N
															510.90	301.9					
BONNET	ASTM A216 WCB-2008	W 13074	0.213	0.46	0.87	0.030	0.016	0.030	0.022	0.001	0.025	0.007		0.37	85.70	56.70	29	54	172		N
															590.88	390.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

**YF03 / 10**

BODY	ASTM A216 WCB-2007	A 8469	0.220	0.40	0.90	0.034	0.020	0.030	0.048	0.004	0.039	0.006	0.025	0.39	75.40	44.95	26.0	54.0	156		N
															519.86	309.9					
BONNET	ASTM A216 WCB-2008	W 12807	0.191	0.448	0.883	0.030	0.017	0.069	0.119	0.013	0.035	0.004		0.37	74.24	45.68	27	50	162		N
															511.87	315					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 11**

BODY	ASTM A216 WCB-2008	A 9280	0.210	0.43	0.89	0.027	0.017	0.026	0.050	0.004	0.031	0.006	0.018	0.37	77.29	46.69	26	57	161		N
															532.9	321.9					
BONNET	ASTM A216 WCB-2008	W 13121	0.201	0.45	0.97	0.026	0.010	0.021	0.028	0.001	0.032	0.004		0.37	77.43	47.27	32	61	164		N
															533.86	325.9					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 12**

BODY	ASTM A216 WCB-2008	W 17314	0.209	0.46	0.92	0.033	0.009	0.034	0.040	0.011	0.038	0.010	0.052	0.39	80.91	51.48	30	58	161		N
															557.85	354.9					
BONNET	ASTM A216 WCB-2008	W 12869	0.221	0.470	0.960	0.023	0.011	0.016	0.032	0.001	0.031	0.001		0.39	73.08	44.08	26	48	160		N
															503.87	303.9					

WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042			108.32	75.69	19.8	52	253		N
														746.84	521.9					

YF03 / 13

BODY	ASTM A216 WCB-2007	A 8463	0.200	0.44	0.89	0.031	0.021	0.022	0.043	0.003	0.030	0.005	0.018	0.36	73.95	43.94	28.0	55.0	151		N
															509.87	303					
BONNET	ASTM A216 WCB-2008	W 12807	0.191	0.448	0.883	0.030	0.017	0.069	0.119	0.013	0.035	0.004		0.37	74.24	45.68	27	50	162		N
															511.87	315					
WEDGE	ASTM A217 CA15-2007	D 3709	0.09	0.91	0.72	0.023	0.011	0.123	12.62	0.050	0.020				101.07	72.36	20	52	270		N
															696.85	498.9					

YF03 / 14

BODY	ASTM A216 WCB-2008	W 17314	0.209	0.46	0.92	0.033	0.009	0.034	0.040	0.011	0.038	0.010	0.052	0.39	80.91	51.48	30	58	161		N
															557.85	354.9					
BONNET	ASTM A216 WCB-2008	A 9568	0.210	0.42	0.90	0.024	0.014	0.020	0.042	0.001	0.030	0.004	0.043	0.37	74.97	44.23	28	56	154		N
															516.9	305					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

YF03 / 15

BODY	ASTM A216 WCB-2008	A 9274	0.230	0.49	0.97	0.026	0.015	0.017	0.040	0.002	0.026	0.004	0.016	0.40	74.68	44.23	27.0	55.0	152		N
															514.90	305					
BONNET	ASTM A216 WCB-2008	W 13105	0.202	0.47	0.96	0.026	0.011	0.024	0.032	0.001	0.029	0.005		0.37	79.75	49.59	26	58	162		N
															549.86	341.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

YF03 / 16

BODY	ASTM A216 WCB-2007	A 8464	0.206	0.41	0.85	0.027	0.018	0.025	0.049	0.007	0.028	0.008	0.005	0.36	75.98	45.24	27.0	55.0	153		N
															523.86	311.9					
BONNET	ASTM A216 WCB-2008	W 12807	0.191	0.448	0.883	0.030	0.017	0.069	0.119	0.013	0.035	0.004		0.37	74.24	45.68	27	50	162		N
															511.87	315					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

YF03 / 17

BODY	ASTM A216 WCB-2008	W 14728	0.218	0.50	0.94	0.032	0.013	0.026	0.030	0.001	0.036	0.007		0.39	85.12	57.28	29	52	162		N
															586.88	394.9					
BONNET	ASTM A216 WCB-2008	A 9583	0.210	0.48	0.85	0.026	0.015	0.049	0.018	0.034	0.046	0.009	0.025	0.37	76.56	45.53	26	52	156		N
															527.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

YF03 / 18

BODY	ASTM A216 WCB-2008	A 8638	0.200	0.45	0.93	0.027	0.017	0.039	0.029	0.001	0.031	0.005	0.016	0.37	75.69	44.95	26.0	54.0	157		N
															521.86	309.9					
BONNET	ASTM A216 WCB-2008	W 13059	0.196	0.49	1.00	0.030	0.014	0.026	0.033	0.001	0.024	0.006		0.37	82.80	54.96	28	52	154		N
															570.89	378.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

YF03 / 19

BODY	ASTM A216 WCB-2008	W 17294	0.199	0.50	0.90	0.032	0.012	0.043	0.038	0.005	0.035	0.007	0.052	0.37	81.49	50.17	29	55	159		N
															561.85	345.9					
BONNET	ASTM A216 WCB-2008	W 12369	0.186	0.37	0.88	0.033	0.015	0.060	0.027	0.001	0.027	0.004		0.34	73.37	43.07	29	56	162		N
															505.87	297					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

YF03 / 20

BODY	ASTM A216 WCB-2008	A 8650	0.200	0.42	0.82	0.024	0.014	0.023	0.030	0.006	0.045	0.004	0.043	0.35	75.69	46.11	27.0	54.0	155		N
															521.86	317.9					
BONNET	ASTM A216 WCB-2007	A 7952	0.210	0.39	0.85	0.025	0.019	0.022	0.049	0.007	0.034	0.004	0.006	0.28	78.16	47.13	24.0	49.0	163		N
															538.89	324.9					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
															710.85	506.9					

**YF03 / 21**

BODY	ASTM A216 WCB-2007	A 8474	0.210	0.41	0.87	0.027	0.018	0.023	0.044	0.005	0.030	0.005	0.045	0.37	73.23	43.07	30.0	57.0	149		N
															504.90	297					
BONNET	ASTM A216 WCB-2008	W 13105	0.202	0.47	0.96	0.026	0.011	0.024	0.032	0.001	0.029	0.005		0.37	79.75	49.59	26	58	162		N
															549.86	341.9					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
															710.85	506.9					

**YF03 / 22**

BODY	ASTM A216 WCB-2008	A 9281	0.230	0.45	0.89	0.027	0.018	0.023	0.050	0.001	0.029	0.006	0.014	0.39	72.79	43.07	32	58	150		N
															501.87	297					
BONNET	ASTM A216 WCB-2008	W 14782	0.197	0.41	0.87	0.026	0.012	0.023	0.018	0.001	0.030	0.007		0.35	83.38	55.54	29	57	165		N
															574.88	382.9					
WEDGE	ASTM A217 CA15-2007	D 7781	0.09	0.87	0.72	0.023	0.010	0.105	12.60	0.027	0.025				109.48	77.00	19.7	51	256		N
															754.84	530.9					

**YF03 / 23**

BODY	ASTM A216 WCB-2008	A 9561	0.210	0.43	0.91	0.024	0.016	0.014	0.026	0.004	0.031	0.006	0.06	0.37	75.84	44.95	26	53	155		N
															522.9	309.9					
BONNET	ASTM A216 WCB-2008	W 14703	0.211	0.50	0.94	0.032	0.012	0.034	0.038	0.001	0.038	0.006		0.38	85.70	57.86	27	49	157		N
															590.88	398.9					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
															710.85	506.9					

**YF03 / 24**

BODY	ASTM A216 WCB-2008	A 9281	0.230	0.45	0.89	0.027	0.018	0.023	0.050	0.001	0.029	0.006	0.014	0.39	72.79	43.07	32	58	150		N
															501.87	297					
BONNET	ASTM A216 WCB-2008	W 12379	0.211	0.46	0.82	0.039	0.016	0.069	0.036	0.002	0.030	0.004		0.36	74.97	45.53	30	54	162		N
															516.9	313.9					
WEDGE	ASTM A217 CA15-2007	D 6725	0.14	0.89	0.78	0.030	0.012	0.172	12.37	0.090	0.039				104.40	74.97	21	49	260		N
															719.81	516.9					

**YF03 / 25**

BODY	ASTM A216 WCB-2008	W 14813	0.219	0.46	0.99	0.029	0.009	0.041	0.016	0.001	0.030	0.009		0.39	78.01	49.01	30	58	159		N
															537.86	337.9					
BONNET	ASTM A216 WCB-2008	W 13034	0.190	0.46	0.88	0.028	0.012	0.019	0.014	0.001	0.029	0.005		0.35	80.91	50.90	28	48	164		N
															557.85	350.9					
WEDGE	ASTM A217 CA15-2007	D 6725	0.14	0.89	0.78	0.030	0.012	0.172	12.37	0.090	0.039				104.40	74.97	21	49	260		N
															719.81	516.9					

**YF03 / 26**

BODY	ASTM A216 WCB-2008	W 14653	0.204	0.46	0.93	0.038	0.016	0.086	0.057	0.001	0.034	0.008		0.38	83.38	54.38	29	54	163		N
															574.88	374.9					
BONNET	ASTM A216 WCB-2008	A 9585	0.210	0.41	0.80	0.025	0.017	0.018	0.038	0.001	0.023	0.004	0.015	0.35	76.71	45.82	25	52	158		N
															528.9	315.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 27**

BODY	ASTM A216 WCB-2007	A 8474	0.210	0.41	0.87	0.027	0.018	0.023	0.044	0.005	0.030	0.005	0.045	0.37	73.23	43.07	30.0	57.0	149		N
															504.90	297					
BONNET	ASTM A216 WCB-2008	A 9583	0.210	0.48	0.85	0.026	0.015	0.049	0.018	0.034	0.046	0.009	0.025	0.37	76.56	45.53	26	52	156		N
															527.86	313.9					

WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042							108.32	75.69	19.8	52	253		N
													746.84	521.9										

YF03 / 28

BODY	ASTM A216 WCB-2007	A 8457	0.200	0.40	0.84	0.027	0.017	0.022	0.039	0.005	0.036	0.004		0.013	0.35	73.95	43.94	29.0	56.0	151				N
													509.87	303										
BONNET	ASTM A216 WCB-2008	W 13121	0.201	0.45	0.97	0.026	0.010	0.021	0.028	0.001	0.032	0.004			0.37	77.43	47.27	32	61	164				N
													533.86	325.9										
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036					103.10	73.52	19.5	51	255			N	
													710.85	506.9										

YF03 / 29

BODY	ASTM A216 WCB-2008	A 9279	0.210	0.51	0.83	0.028	0.018	0.014	0.029	0.006	0.023	0.004		0.034	0.36	76.56	45.82	26	53	155				N
													527.86	315.9										
BONNET	ASTM A216 WCB-2008	A 9564	0.200	0.43	0.85	0.027	0.015	0.024	0.065	0.014	0.029	0.005		0.015	0.36	76.71	45.82	26	52	158				N
													528.9	315.9										
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036					103.10	73.52	19.5	51	255			N	
													710.85	506.9										

YF03 / 30

BODY	ASTM A216 WCB-2008	A 9277	0.200	0.46	0.88	0.024	0.018	0.032	0.180	0.011	0.030	0.005		0.036	0.39	76.27	46.11	25	53	157				N
													525.86	317.9										
BONNET	ASTM A216 WCB-2007	A 8467	0.200	0.41	0.80	0.028	0.020	0.032	0.064	0.005	0.030	0.005		0.025	0.35	75.40	45.82	26.0	54.0	157				N
													519.86	315.9										
WEDGE	ASTM A217 CA15-2007	D 7782	0.12	0.93	0.78	0.024	0.012	0.110	12.73	0.068	0.036					107.30	75.84	20	53	262			N	
													739.81	522.9										

YF03 / 31

BODY	ASTM A216 WCB-2008	W 17332	0.203	0.44	0.92	0.031	0.011	0.042	0.038	0.006	0.037	0.008		0.044	0.38	85.12	56.70	29	54	171				N
													586.88	390.9										
BONNET	ASTM A216 WCB-2008	W 12836	0.212	0.435	0.891	0.026	0.017	0.015	0.019	0.001	0.026	0.004			0.37	74.82	45.97	28	49	167				N
													515.87	317										
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042					108.32	75.69	19.8	52	253			N	
													746.84	521.9										

YF03 / 32

BODY	ASTM A216 WCB-2008	A 8648	0.200	0.44	0.89	0.025	0.018	0.038	0.044	0.005	0.031	0.002		0.007	0.36	73.95	43.65	30.0	57.0	149				N
													509.87	301										
BONNET	ASTM A216 WCB-2007	A 8471	0.200	0.40	0.82	0.026	0.019	0.026	0.053	0.001	0.030	0.005		0.03	0.35	73.95	43.79	30.0	57.0	150				N
													509.87	301.9										
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042					108.32	75.69	19.8	52	253			N	
													746.84	521.9										

YF03 / 33

BODY	ASTM A216 WCB-2008	A 9570	0.210	0.42	0.84	0.028	0.016	0.019	0.042	0.003	0.028	0.004		0.01	0.36	75.98	45.97	27	56	154				N
													523.86	317										
BONNET	ASTM A216 WCB-2007	A 7957	0.208	0.44	0.87	0.024	0.016	0.024	0.069	0.007	0.031	0.005		0.057	0.31	78.30	47.85	26.0	53.0	159				N
													539.86	329.9										
WEDGE	ASTM A217 CA15-2007	D 3707	0.10	0.86	0.71	0.024	0.010	0.106	12.29	0.011	0.020					103.10	73.81	18.6	48	260			N	
													710.85	508.9										

YF03 / 34

BODY	ASTM A216 WCB-2008	W 14977	0.203	0.49	0.94	0.019	0.013	0.029	0.053	0.001	0.029	0.004			0.38	83.96	54.96	30	53	153				N
													578.88	378.9										
BONNET	ASTM A216 WCB-2008	A 8475	0.200	0.44	0.96	0.022	0.016	0.028	0.038	0.001	0.040	0.005		0.004	0.37	75.69	44.95	26.0	52.0	157				N
													521.86	309.9										
WEDGE	ASTM A217 CA15-2007	D 6721	0.10	1.03	0.81	0.022	0.010	0.151	12.32	0.011	0.026					106.87	76.56	19	51	260			N	
													736.84	527.9										

YF03 / 35

BODY	ASTM A216 WCB-2008	A 9277	0.200	0.46	0.88	0.024	0.018	0.032	0.180	0.011	0.030	0.005	0.036	0.39	76.27	46.11	25	53	157		N
															525.86	317.9					
BONNET	ASTM A216 WCB-2007	A 8470	0.210	0.44	0.81	0.026	0.017	0.023	0.041	0.001	0.031	0.005	0.041	0.36	76.85	45.82	25.0	51.0	159		N
															529.86	315.9					
WEDGE	ASTM A217 CA15-2007	D 3124	0.12	0.79	0.77	0.022	0.011	0.117	12.86	0.020	0.024				103.24	73.52	19	51	266		N
															711.81	506.9					

**YF03 / 36**

BODY	ASTM A216 WCB-2008	A 8649	0.200	0.48	0.94	0.026	0.017	0.017	0.036	0.001	0.028	0.005	0.056	0.37	73.95	43.79	28.0	56.0	150		N
															509.87	301.9					
BONNET	ASTM A216 WCB-2007	A 8467	0.200	0.41	0.80	0.028	0.020	0.032	0.064	0.005	0.030	0.005	0.025	0.35	75.40	45.82	26.0	54.0	157		N
															519.86	315.9					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 37**

BODY	ASTM A216 WCB-2007	A 6906	0.230	0.47	0.80	0.021	0.017	0.021	0.039	0.004	0.039	0.003	0.32	75.55	45.68	27.0	50.0	153		N	
															520.9	315					
BONNET	ASTM A216 WCB-2007	W 11811	0.209	0.41	0.88	0.027	0.014	0.021	0.093	0.001	0.034	0.003	0.38	76.27	43.94	27.0	50.0	165		N	
															525.86	303					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
															710.85	506.9					

**YF03 / 38**

BODY	ASTM A216 WCB-2008	A 8645	0.200	0.40	0.83	0.016	0.023	0.020	0.042	0.001	0.028	0.004	0.018	0.35	73.95	43.50	29.0	55.0	151		N
															509.87	299.9					
BONNET	ASTM A216 WCB-2008	A 9585	0.210	0.41	0.80	0.025	0.017	0.018	0.038	0.001	0.023	0.004	0.015	0.35	76.71	45.82	25	52	158		N
															528.9	315.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033				102.08	72.65	21	52	256		N
															703.82	500.9					

**YF03 / 39**

BODY	ASTM A216 WCB-2008	W 17332	0.203	0.44	0.92	0.031	0.011	0.042	0.038	0.006	0.037	0.008	0.044	0.38	85.12	56.70	29	54	171		N
															586.88	390.9					
BONNET	ASTM A216 WCB-2008	W 12369	0.186	0.37	0.88	0.033	0.015	0.060	0.027	0.001	0.027	0.004	0.34	73.37	43.07	29	56	162		N	
															505.87	297					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 40**

BODY	ASTM A216 WCB-2008	A 8644	0.210	0.40	0.88	0.018	0.014	0.011	0.018	0.001	0.025	0.004	0.039	0.36	74.97	43.79	25.0	52.0	154		N
															516.9	301.9					
BONNET	ASTM A216 WCB-2007	A 8461	0.220	0.45	0.88	0.027	0.017	0.044	0.127	0.012	0.031	0.006	0.01	0.40	77.29	46.40	24.0	49.0	164		N
															532.9	319.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 41**

BODY	ASTM A216 WCB-2007	A 8474	0.210	0.41	0.87	0.027	0.018	0.023	0.044	0.005	0.030	0.005	0.045	0.37	73.23	43.07	30.0	57.0	149		N
															504.90	297					
BONNET	ASTM A216 WCB-2008	A 9563	0.200	0.40	0.82	0.022	0.014	0.024	0.032	0.003	0.034	0.004	0.032	0.35	75.84	45.10	27	54	156		N
															522.9	311					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 42**

BODY	ASTM A216 WCB-2008	A 8641	0.220	0.41	0.89	0.025	0.017	0.031	0.035	0.005	0.045	0.003	0.01	0.38	75.40	44.95	26.0	54.0	157		N
															519.86	309.9					
BONNET	ASTM A216 WCB-2008	W 12869	0.221	0.470	0.960	0.023	0.011	0.016	0.032	0.001	0.031	0.001	0.39	73.08	44.08	26	48	160		N	
															503.87	303.9					



BODY	ASTM A216 WCB-2008	A 8646	0.220	0.47	0.84	0.036	0.015	0.043	0.073	0.001	0.030	0.004		0.38	76.71	45.82	24.0	50.0	160		N
															528.9	315.9					
BONNET	ASTM A216 WCB-2008	A 9291	0.200	0.46	0.85	0.029	0.014	0.029	0.053	0.001	0.038	0.005	0.019	0.36	77.14	45.68	25.0	51	158		N
															531.86	315					
WEDGE	ASTM A217 CA15-2007	D 7781	0.09	0.87	0.72	0.023	0.010	0.105	12.60	0.027	0.025				109.48	77.00	19.7	51	256		N
															754.84	530.9					

**YF03 / 51**

BODY	ASTM A216 WCB-2008	A 8649	0.200	0.48	0.94	0.026	0.017	0.017	0.036	0.001	0.028	0.005	0.056	0.37	73.95	43.79	28.0	56.0	150		N
															509.87	301.9					
BONNET	ASTM A216 WCB-2008	W 12869	0.221	0.470	0.960	0.023	0.011	0.016	0.032	0.001	0.031	0.001		0.39	73.08	44.08	26	48	160		N
															503.87	303.9					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034				106.00	74.97	19.2	50	258		N
															730.84	516.9					

**YF03 / 52**

BODY	ASTM A216 WCB-2008	W 17335	0.210	0.46	0.91	0.030	0.017	0.040	0.050	0.007	0.038	0.007	0.052	0.39	83.96	55.54	29	57	158		N
															578.88	382.9					
BONNET	ASTM A216 WCB-2008	W 13105	0.202	0.47	0.96	0.026	0.011	0.024	0.032	0.001	0.029	0.005		0.37	79.75	49.59	26	58	162		N
															549.86	341.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 53**

BODY	ASTM A216 WCB-2007	A 8473	0.200	0.40	0.81	0.023	0.017	0.035	0.055	0.004	0.036	0.006	0.023	0.35	77.29	46.40	25.0	51.0	159		N
															532.9	319.9					
BONNET	ASTM A216 WCB-2008	A 9594	0.230	0.41	0.83	0.024	0.013	0.039	0.077	0.009	0.044	0.005	0.012	0.39	74.68	44.37	28	56	152		N
															514.90	305.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 54**

BODY	ASTM A216 WCB-2008	A 8638	0.200	0.45	0.93	0.027	0.017	0.039	0.029	0.001	0.031	0.005	0.016	0.37	75.69	44.95	26.0	54.0	157		N
															521.86	309.9					
BONNET	ASTM A216 WCB-2008	A 9563	0.200	0.40	0.82	0.022	0.014	0.024	0.032	0.003	0.034	0.004	0.032	0.35	75.84	45.10	27	54	156		N
															522.9	311					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
															746.84	521.9					

**YF03 / 55**

BODY	ASTM A216 WCB-2007	A 8469	0.220	0.40	0.90	0.034	0.020	0.030	0.048	0.004	0.039	0.006	0.025	0.39	75.40	44.95	26.0	54.0	156		N
															519.86	309.9					
BONNET	ASTM A216 WCB-2008	W 13034	0.190	0.46	0.88	0.028	0.012	0.019	0.014	0.001	0.029	0.005		0.35	80.91	50.90	28	48	164		N
															557.85	350.9					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
															710.85	506.9					

**YF03 / 56**

BODY	ASTM A216 WCB-2007	A 8474	0.210	0.41	0.87	0.027	0.018	0.023	0.044	0.005	0.030	0.005	0.045	0.37	73.23	43.07	30.0	57.0	149		N
															504.90	297					
BONNET	ASTM A216 WCB-2008	A 9275	0.220	0.46	0.92	0.026	0.017	0.022	0.038	0.001	0.030	0.004	0.006	0.39	75.84	44.95	26	52	157		N
															522.9	309.9					
WEDGE	ASTM A217 CA15-2007	D 7782	0.12	0.93	0.78	0.024	0.012	0.110	12.73	0.068	0.036				107.30	75.84	20	53	262		N
															739.81	522.9					

**YF03 / 57**

BODY	ASTM A216 WCB-2007	A 8470	0.210	0.44	0.81	0.026	0.017	0.023	0.041	0.001	0.031	0.005	0.041	0.36	76.85	45.82	25.0	51.0	159		N
															529.86	315.9					
BONNET	ASTM A216 WCB-2008	A 9579	0.240	0.43	0.85	0.027	0.018	0.029	0.050	0.001	0.046	0.005	0.015	0.40	76.85	45.97	25	51	160		N
															529.86	317					





BODY	ASTM A216 WCB-2008	A 8475	0.200	0.44	0.96	0.022	0.016	0.028	0.038	0.001	0.040	0.005		0.004	0.37	75.69	44.95	26.0	52.0	157		N
																521.86	309.9					
BONNET	ASTM A216 WCB-2008	W 14729	0.200	0.49	0.95	0.024	0.016	0.027	0.023	0.001	0.031	0.007			0.37	85.70	57.86	30	55	164		N
																590.88	398.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033					102.08	72.65	21	52	256		N
																703.82	500.9					

*YF03 / 66*

BODY	ASTM A216 WCB-2008	A 8641	0.220	0.41	0.89	0.025	0.017	0.031	0.035	0.005	0.045	0.003		0.01	0.38	75.40	44.95	26.0	54.0	157		N
																519.86	309.9					
BONNET	ASTM A216 WCB-2008	A 9284	0.220	0.50	0.90	0.032	0.017	0.020	0.040	0.001	0.034	0.004		0.028	0.38	73.95	43.50	35	57	150		N
																509.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036					103.10	73.52	19.5	51	255		N
																710.85	506.9					

*YF03 / 67*

BODY	ASTM A216 WCB-2008	W 14618	0.211	0.43	0.97	0.034	0.013	0.028	0.035	0.001	0.037	0.005			0.39	86.28	57.28	28	50	153		N
																594.88	394.9					
BONNET	ASTM A216 WCB-2008	A 9299	0.210	0.45	0.93	0.026	0.013	0.025	0.051	0.005	0.040	0.005		0.023	0.38	76.27	45.97	26	52	158		N
																525.86	317					
WEDGE	ASTM A217 CA15-2007	D 7783	0.13	0.94	0.81	0.029	0.013	0.109	12.57	0.068	0.034					106.00	74.97	19.2	50	258		N
																730.84	516.9					

*YF03 / 68*

BODY	ASTM A216 WCB-2008	W 17314	0.209	0.46	0.92	0.033	0.009	0.034	0.040	0.011	0.038	0.010		0.052	0.39	80.91	51.48	30	58	161		N
																557.85	354.9					
BONNET	ASTM A216 WCB-2008	A 9276	0.200	0.45	0.86	0.026	0.016	0.018	0.035	0.001	0.026	0.005		0.012	0.35	73.95	43.50	29.0	57.0	150		N
																509.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 7782	0.12	0.93	0.78	0.024	0.012	0.110	12.73	0.068	0.036					107.30	75.84	20	53	262		N
																739.81	522.9					

*YF03 / 69*

BODY	ASTM A216 WCB-2007	A 8458	0.200	0.47	0.86	0.027	0.017	0.031	0.066	0.004	0.034	0.006		0.015	0.36	77.72	46.40	24.0	50.0	160		N
																535.86	319.9					
BONNET	ASTM A216 WCB-2008	W 12810	0.204	0.407	0.928	0.022	0.010	0.011	0.016	0.001	0.032	0.002			0.37	73.95	49.16	30	52	164		N
																509.87	338.9					
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042					108.32	75.69	19.8	52	253		N
																746.84	521.9					

*YF03 / 70*

BODY	ASTM A216 WCB-2008	A 8644	0.210	0.40	0.88	0.018	0.014	0.011	0.018	0.001	0.025	0.004		0.039	0.36	74.97	43.79	25.0	52.0	154		N
																516.9	301.9					
BONNET	ASTM A216 WCB-2008	W 13074	0.213	0.46	0.87	0.030	0.016	0.030	0.022	0.001	0.025	0.007			0.37	85.70	56.70	29	54	172		N
																590.88	390.9					
WEDGE	ASTM A217 CA15-2007	D 3707	0.10	0.86	0.71	0.024	0.010	0.106	12.29	0.011	0.020					103.10	73.81	18.6	48	260		N
																710.85	508.9					

*YF03 / 71*

BODY	ASTM A216 WCB-2008	W 17355	0.191	0.44	0.98	0.029	0.013	0.032	0.043	0.006	0.035	0.007		0.045	0.38	85.12	52.06	28	57	162		N
																586.88	358.9					
BONNET	ASTM A216 WCB-2008	W 12814	0.210	0.439	0.912	0.021	0.013	0.009	0.009	0.001	0.028	0.001			0.37	77.87	49.01	26	48	163		N
																536.89	337.9					
WEDGE	ASTM A217 CA15-2007	D 7785	0.10	1.01	0.90	0.024	0.010	0.101	12.68	0.087	0.033					102.08	72.65	21	52	256		N
																703.82	500.9					

*YF03 / 72*

BODY	ASTM A216 WCB-2007	A 8470	0.210	0.44	0.81	0.026	0.017	0.023	0.041	0.001	0.031	0.005		0.041	0.36	76.85	45.82	25.0	51.0	159		N
																529.86	315.9					
BONNET	ASTM A216 WCB-2008	W 14824	0.203	0.51	0.94	0.019	0.022	0.024	0.034	0.001	0.042	0.006			0.37	81.64	52.64	29	55	171		N
																562.89	362.9					

WEDGE	ASTM A217 CA15-2007	D 7782	0.12	0.93	0.78	0.024	0.012	0.110	12.73	0.068	0.036				107.30	75.84	20	53	262		N
													739.81	522.9							

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BODY	ASTM A216 WCB-2008	A 8638	0.200	0.45	0.93	0.027	0.017	0.039	0.029	0.001	0.031	0.005	0.016	0.37	75.69	44.95	26.0	54.0	157		N
													521.86	309.9							
BONNET	ASTM A216 WCB-2008	A 9572	0.200	0.44	0.88	0.027	0.018	0.021	0.038	0.004	0.033	0.004	0.025	0.36	74.53	44.52	28	57	152		N
													513.87	307							
WEDGE	ASTM A217 CA15-2007	D 6721	0.10	1.03	0.81	0.022	0.010	0.151	12.32	0.011	0.026				106.87	76.56	19	51	260		N
													736.84	527.9							

**YF03 / 74**

BODY	ASTM A216 WCB-2008	A 8650	0.200	0.42	0.82	0.024	0.014	0.023	0.030	0.006	0.045	0.004	0.043	0.35	75.69	46.11	27.0	54.0	155		N
													521.86	317.9							
BONNET	ASTM A216 WCB-2008	A 9298	0.200	0.43	0.86	0.024	0.015	0.024	0.050	0.004	0.029	0.005	0.013	0.36	74.39	43.50	32	58	150		N
													512.90	299.9							
WEDGE	ASTM A217 CA15-2007	D 7780	0.11	0.94	0.79	0.023	0.010	0.106	12.05	0.027	0.042				108.32	75.69	19.8	52	253		N
													746.84	521.9							

**YF03 / 75**

BODY	ASTM A216 WCB-2008	A 8642	0.200	0.42	0.87	0.021	0.016	0.029	0.058	0.001	0.028	0.004	0.021	0.36	76.27	45.97	25.0	53.0	158		N
													525.86	317							
BONNET	ASTM A216 WCB-2008	W 12369	0.186	0.37	0.88	0.033	0.015	0.060	0.027	0.001	0.027	0.004	0.34	73.37	43.07	29	56	162		N	
													505.87	297							
WEDGE	ASTM A217 CA15-2007	D 7784	0.11	0.99	0.82	0.027	0.015	0.108	12.84	0.087	0.036				103.10	73.52	19.5	51	255		N
													710.85	506.9							

**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	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. : 