

Certificate/Serial/Job No: YE108

Quality Department: John Ho

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
82	4	300	/ 103060	DSI 23XUF	GATE				5/8/2012

Pressure Test: API598	<input checked="" type="checkbox"/> Satisfactory	Shell Pressure : 1125 psi 7756.6 kPa	BackSeat : 825 psi 5688.2 kPa	Seat Pressure 825 psi 5688.17 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]

YE108 / 1

BODY	ASTM A216 WCB-2008	A 11893	0.200	0.47	0.88	0.026	0.015	0.026	0.063	0.009	0.04	0.007		0.036	0.37	73.08	43.36	32	58	149									N
BONNET	ASTM A216 WCB-2008	A 11727	0.210	0.48	0.91	0.028	0.015	0.029	0.048	0.001	0.029	0.004		0.027	0.38	503.87	299	26	54	155									N
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017		0.42		519.86	309.9	32	40	170									N
																560.89	358.9												

YE108 / 2

BODY	ASTM A216 WCB-2008	A 11891	0.210	0.45	0.89	0.025	0.014	0.023	0.049	0.001	0.04	0.005		0.012	0.37	76.56	45.24	27	54	156										N
BONNET	ASTM A216 WCB-2008	A 11897	0.210	0.45	0.87	0.027	0.014	0.025	0.05	0.001	0.042	0.005		0.014	0.37	527.86	311.9	26	53	158										N
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017		0.37		527.86	319	39	40	172										N
																77.87	52.93													

YE108 / 3

BODY	ASTM A216 WCB-2008	A 11899	0.200	0.43	0.92	0.022	0.012	0.025	0.058	0.001	0.04	0.004		0.031	0.37	73.37	43.21	33	58	149										N
BONNET	ASTM A216 WCB-2008	A 11889	0.200	0.48	0.95	0.026	0.014	0.026	0.05	0.004	0.04	0.007		0.37		505.87	297.9	25	50	159										N
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36		529.86	315	40	38	168										N
																79.46	54.38													

YE108 / 4

BODY	ASTM A216 WCB-2008	A 11891	0.210	0.45	0.89	0.025	0.014	0.023	0.049	0.001	0.04	0.005		0.012	0.37	76.56	45.24	27	54	156										N
BONNET	ASTM A216 WCB-2008	A 11882	0.200	0.46	0.89	0.025	0.014	0.029	0.050	0.001	0.045	0.005		0.028	0.36	527.86	311.9	30	57	155										N
WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41		525.86	313	33	40	170										N
																80.62	50.90													

YE108 / 5

																555.86	350.9													
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BODY	ASTM A216 WCB-2008	A 11887	0.220	0.47	0.87	0.024	0.012	0.027	0.05	0.007	0.041	0.005		0.38	72.50	43.07	34	58	150		N
															499.87	297					
BONNET	ASTM A216 WCB-2008	A 11731	0.200	0.47	0.91	0.025	0.011	0.042	0.097	0.006	0.040	0.006	0.047	0.38	76.56	44.37	26	53	156		N
															527.86	305.9					
WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41	80.62	50.90	33	40	170		N
															555.86	350.9					

YE108 / 6

BODY	ASTM A216 WCB-2008	A 11887	0.220	0.47	0.87	0.024	0.012	0.027	0.05	0.007	0.041	0.005		0.38	72.50	43.07	34	58	150		N
															499.87	297					
BONNET	ASTM A216 WCB-2008	A 11887	0.220	0.47	0.87	0.024	0.012	0.027	0.05	0.007	0.041	0.005		0.38	72.50	43.07	34	58	150		N
															499.87	297					
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017		0.42	81.35	52.06	32	40	170		N
															560.89	358.9					

YE108 / 7

BODY	ASTM A216 WCB-2008	A 11889	0.200	0.48	0.95	0.026	0.014	0.026	0.05	0.004	0.04	0.007		0.37	76.85	45.68	25	50	159		N
															529.86	315					
BONNET	ASTM A216 WCB-2008	A 11901	0.200	0.48	0.88	0.026	0.012	0.026	0.057	0.001	0.04	0.005	0.022	0.36	75.40	44.95	27	56	153		N
															519.86	309.9					
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36	79.46	54.38	40	38	168		N
															547.86	374.9					

YE108 / 8

BODY	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009	0.012	0.37	76.13	45.10	28	54	156		N
															524.9	311					
BONNET	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152		N
															511.87	301					
WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41	80.62	50.90	33	40	170		N
															555.86	350.9					

YE108 / 9

BODY	ASTM A216 WCB-2008	A 11886	0.200	0.45	0.88	0.024	0.014	0.029	0.055	0.003	0.033	0.005		0.36	76.56	45.53	29	53	154		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12000	0.200	0.45	0.93	0.025	0.01	0.027	0.048	0.019	0.04	0.005	0.042	0.37	75.26	44.37	30	57	152		N
															518.9	305.9					
WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41	80.62	50.90	33	40	170		N
															555.86	350.9					

YE108 / 10

BODY	ASTM A216 WCB-2008	A 11898	0.220	0.46	0.89	0.028	0.018	0.031	0.036	0.005	0.054	0.003	0.028	0.38	74.53	44.37	30	57	152		N
															513.87	305.9					
BONNET	ASTM A216 WCB-2008	A 11886	0.200	0.45	0.88	0.024	0.014	0.029	0.055	0.003	0.033	0.005		0.36	76.56	45.53	29	53	154		N
															527.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 6732	0.10	0.89	0.82	0.026	0.010	0.128	12.81	0.010	0.026				103.68	73.23	20	49	267		N
															714.85	504.9					

YE108 / 11

BODY	ASTM A216 WCB-2008	A 11885	0.210	0.42	0.95	0.020	0.007	0.024	0.046	0.001	0.039	0.006	0.031	0.38	75.40	44.95	27	54	156		N
															519.86	309.9					
BONNET	ASTM A216 WCB-2008	A 11892	0.220	0.44	0.91	0.024	0.018	0.035	0.055	0.003	0.025	0.003	0.036	0.39	77.58	46.40	25	49	160		N
															534.9	319.9					
WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41	80.62	50.90	33	40	170		N
															555.86	350.9					

YE108 / 12

BODY	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009	0.012	0.37	76.13	45.10	28	54	156		N
															524.9	311					
BONNET	ASTM A216 WCB-2008	A 11885	0.210	0.42	0.95	0.020	0.007	0.024	0.046	0.001	0.039	0.006	0.031	0.38	75.40	44.95	27	54	156		N
															519.86	309.9					

WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017		0.37	77.87	52.93	39	40	172		N
															536.89	364.9					

YE108 / 13

BODY	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005		0.021	0.37	76.56	45.53	26	53	155		N
															527.86	313.9						
BONNET	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005		0.013	0.38	73.95	43.50	30	57	152		N
															509.87	299.9						
WEDGE	ASTM A217 CA15-2007	D 7046	0.12	0.90	0.81	0.025	0.011	0.129	12.60	0.093	0.035					104.55	73.95	19.3	48	266		N
															720.85	509.9						

YE108 / 14

BODY	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009		0.012	0.37	76.13	45.10	28	54	156		N
															524.9	311						
BONNET	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005		0.021	0.37	76.56	45.53	26	53	155		N
															527.86	313.9						
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017			0.42	81.35	52.06	32	40	170		N
															560.89	358.9						

YE108 / 15

BODY	ASTM A216 WCB-2008	A 12010	0.210	0.40	0.85	0.028	0.015	0.027	0.055	0.006	0.038	0.006		0.011	0.37	73.08	43.36	31	58	147		N
															503.87	299						
BONNET	ASTM A216 WCB-2008	A 11883	0.200	0.46	0.92	0.021	0.017	0.023	0.046	0.001	0.045	0.005		0.017	0.37	74.53	44.37	32	58	152		N
															513.87	305.9						
WEDGE	ASTM A217 CA15-2007	D 7046	0.12	0.90	0.81	0.025	0.011	0.129	12.60	0.093	0.035					104.55	73.95	19.3	48	266		N
															720.85	509.9						

YE108 / 16

BODY	ASTM A216 WCB-2008	A 11893	0.200	0.47	0.88	0.026	0.015	0.026	0.063	0.009	0.04	0.007		0.036	0.37	73.08	43.36	32	58	149		N
															503.87	299						
BONNET	ASTM A216 WCB-2008	A 12006	0.220	0.43	0.89	0.025	0.014	0.05	0.09	0.012	0.036	0.005		0.003	0.40	74.24	44.37	31	58	150		N
															511.87	305.9						
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015			0.36	79.46	54.38	40	38	168		N
															547.86	374.9						

YE108 / 17

BODY	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005		0.013	0.38	73.95	43.50	30	57	152		N
															509.87	299.9						
BONNET	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005		0.013	0.38	73.95	43.50	30	57	152		N
															509.87	299.9						
WEDGE	ASTM A216 WCB-2008	X 1021	0.21	0.50	0.85	0.028	0.022	0.021	0.021	0.019	0.12	0.015			0.37	79.61	53.36	39	39	168		N
															548.89	367.9						

YE108 / 18

BODY	ASTM A216 WCB-2008	A 11895	0.212	0.44	0.84	0.029	0.016	0.03	0.05	0.001	0.048	0.004		0.025	0.37	75.40	44.95	27	55	155		N
															519.86	309.9						
BONNET	ASTM A216 WCB-2008	A 12006	0.220	0.43	0.89	0.025	0.014	0.05	0.09	0.012	0.036	0.005		0.003	0.40	74.24	44.37	31	58	150		N
															511.87	305.9						
WEDGE	ASTM A216 WCB-2008	X 1089	0.18	0.45	0.80	0.016	0.017	0.23	0.16	0.13	0.12	0.019			0.40	81.06	52.64	30	40	171		N
															558.89	362.9						

YE108 / 19

BODY	ASTM A216 WCB-2008	A 11889	0.200	0.48	0.95	0.026	0.014	0.026	0.05	0.004	0.04	0.007			0.37	76.85	45.68	25	50	159		N
															529.86	315						
BONNET	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009		0.012	0.37	76.13	45.10	28	54	156		N
															524.9	311						
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017			0.42	81.35	52.06	32	40	170		N
															560.89	358.9						

YE108 / 20

BODY	ASTM A216 WCB-2008	A 12009	0.210	0.43	0.95	0.028	0.015	0.027	0.057	0.002	0.031	0.005	0.02	0.39	73.95	43.79	30	57	150		N
															509.87	301.9					
BONNET	ASTM A216 WCB-2008	A 11900	0.200	0.44	0.96	0.026	0.014	0.028	0.059	0.001	0.038	0.006	0.014	0.38	76.56	45.53	28	57	154		N
															527.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 6732	0.10	0.89	0.82	0.026	0.010	0.128	12.81	0.010	0.026				103.68	73.23	20	49	267		N
															714.85	504.9					

YE108 / 21

BODY	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009	0.012	0.37	76.13	45.10	28	54	156		N
															524.9	311					
BONNET	ASTM A216 WCB-2008	A 12000	0.200	0.45	0.93	0.025	0.01	0.027	0.048	0.019	0.04	0.005	0.042	0.37	75.26	44.37	30	57	152		N
															518.9	305.9					
WEDGE	ASTM A216 WCB-2008	X 1021	0.21	0.50	0.85	0.028	0.022	0.021	0.021	0.019	0.12	0.015		0.37	79.61	53.36	39	39	168		N
															548.89	367.9					

YE108 / 22

BODY	ASTM A216 WCB-2008	A 12001	0.210	0.46	0.87	0.023	0.016	0.026	0.055	0.017	0.031	0.004	0.026	0.37	76.56	45.24	26	53	157		N
															527.86	311.9					
BONNET	ASTM A216 WCB-2008	A 12000	0.200	0.45	0.93	0.025	0.01	0.027	0.048	0.019	0.04	0.005	0.042	0.37	75.26	44.37	30	57	152		N
															518.9	305.9					
WEDGE	ASTM A217 CA15-2007	D 7046	0.12	0.90	0.81	0.025	0.011	0.129	12.60	0.093	0.035				104.55	73.95	19.3	48	266		N
															720.85	509.9					

YE108 / 23

BODY	ASTM A216 WCB-2008	A 11896	0.210	0.49	0.89	0.025	0.015	0.024	0.044	0.001	0.034	0.004	0.02	0.37	74.68	44.37	30	57	151		N
															514.90	305.9					
BONNET	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005	0.021	0.37	76.56	45.53	26	53	155		N
															527.86	313.9					
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36	79.46	54.38	40	38	168		N
															547.86	374.9					

YE108 / 24

BODY	ASTM A216 WCB-2008	A 11902	0.220	0.43	0.95	0.026	0.014	0.03	0.062	0.001	0.038	0.006	0.012	0.40	77.58	46.26	25	49	160		N
															534.9	319					
BONNET	ASTM A216 WCB-2008	A 12004	0.210	0.44	0.91	0.025	0.013	0.028	0.059	0.002	0.037	0.005	0.03	0.38	75.98	45.10	27	56	155		N
															523.86	311					
WEDGE	ASTM A217 CA15-2007	D 7046	0.12	0.90	0.81	0.025	0.011	0.129	12.60	0.093	0.035				104.55	73.95	19.3	48	266		N
															720.85	509.9					

YE108 / 25

BODY	ASTM A216 WCB-2008	A 11900	0.200	0.44	0.96	0.026	0.014	0.028	0.059	0.001	0.038	0.006	0.014	0.38	76.56	45.53	28	57	154		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12235	0.200	0.43	0.93	0.028	0.012	0.031	0.056	0.003	0.033	0.004	0.02	0.37	74.53	44.23	31	57	152		N
															513.87	305					
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017		0.42	81.35	52.06	32	40	170		N
															560.89	358.9					

YE108 / 26

BODY	ASTM A216 WCB-2008	A 11897	0.210	0.45	0.87	0.027	0.014	0.025	0.05	0.001	0.042	0.005	0.014	0.37	76.56	46.26	26	53	158		N
															527.86	319					
BONNET	ASTM A216 WCB-2008	A 11899	0.200	0.43	0.92	0.022	0.012	0.025	0.058	0.001	0.04	0.004	0.031	0.37	73.37	43.21	33	58	149		N
															505.87	297.9					
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017		0.42	81.35	52.06	32	40	170		N
															560.89	358.9					

YE108 / 27

BODY	ASTM A216 WCB-2008	A 12001	0.210	0.46	0.87	0.023	0.016	0.026	0.055	0.017	0.031	0.004	0.026	0.37	76.56	45.24	26	53	157		N
															527.86	311.9					
BONNET	ASTM A216 WCB-2008	A 12006	0.220	0.43	0.89	0.025	0.014	0.05	0.09	0.012	0.036	0.005	0.003	0.40	74.24	44.37	31	58	150		N
															511.87	305.9					

WEDGE	ASTM A216 WCB-2008	X 1079	0.20	0.48	0.75	0.019	0.017	0.20	0.15	0.10	0.13	0.017	0.40	82.22	52.93	32	43	170	N
															566.89	364.9			

YE108 / 28

BODY	ASTM A216 WCB-2008	A 12001	0.210	0.46	0.87	0.023	0.016	0.026	0.055	0.017	0.031	0.004	0.026	0.37	76.56	45.24	26	53	157	N
															527.86	311.9				
BONNET	ASTM A216 WCB-2008	A 12012	0.210	0.46	0.95	0.029	0.012	0.034	0.063	0.001	0.038	0.005	0.035	0.39	76.42	45.53	26	53	156	N
															526.9	313.9				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36	79.46	54.38	40	38	168	N	
															547.86	374.9				

YE108 / 29

BODY	ASTM A216 WCB-2008	A 12009	0.210	0.43	0.95	0.028	0.015	0.027	0.057	0.002	0.031	0.005	0.02	0.39	73.95	43.79	30	57	150	N
															509.87	301.9				
BONNET	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152	N
															511.87	301				
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017	0.42	81.35	52.06	32	40	170	N	
															560.89	358.9				

YE108 / 30

BODY	ASTM A216 WCB-2008	A 11740	0.200	0.43	0.87	0.026	0.017	0.031	0.048	0.002	0.041	0.005	0.009	0.36	72.36	43.50	30	57	150	N
															498.90	299.9				
BONNET	ASTM A216 WCB-2008	A 12004	0.210	0.44	0.91	0.025	0.013	0.028	0.059	0.002	0.037	0.005	0.03	0.38	75.98	45.10	27	56	155	N
															523.86	311				
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017	0.37	77.87	52.93	39	40	172	N	
															536.89	364.9				

YE108 / 31

BODY	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005	0.021	0.37	76.56	45.53	26	53	155	N
															527.86	313.9				
BONNET	ASTM A216 WCB-2008	A 11897	0.210	0.45	0.87	0.027	0.014	0.025	0.05	0.001	0.042	0.005	0.014	0.37	76.56	46.26	26	53	158	N
															527.86	319				
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017	0.37	77.87	52.93	39	40	172	N	
															536.89	364.9				

YE108 / 32

BODY	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152	N
															511.87	301				
BONNET	ASTM A216 WCB-2008	A 12004	0.210	0.44	0.91	0.025	0.013	0.028	0.059	0.002	0.037	0.005	0.03	0.38	75.98	45.10	27	56	155	N
															523.86	311				
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017	0.37	77.87	52.93	39	40	172	N	
															536.89	364.9				

YE108 / 33

BODY	ASTM A216 WCB-2008	A 11885	0.210	0.42	0.95	0.020	0.007	0.024	0.046	0.001	0.039	0.006	0.031	0.38	75.40	44.95	27	54	156	N
															519.86	309.9				
BONNET	ASTM A216 WCB-2008	A 12010	0.210	0.40	0.85	0.028	0.015	0.027	0.055	0.006	0.038	0.006	0.011	0.37	73.08	43.36	31	58	147	N
															503.87	299				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36	79.46	54.38	40	38	168	N	
															547.86	374.9				

YE108 / 34

BODY	ASTM A216 WCB-2008	A 12014	0.210	0.40	0.91	0.031	0.011	0.041	0.071	0.008	0.034	0.004	0.005	0.38	76.13	45.82	27	56	153	N
															524.9	315.9				
BONNET	ASTM A216 WCB-2008	A 12002	0.220	0.47	0.95	0.027	0.013	0.033	0.06	0.019	0.039	0.005	0.013	0.40	73.23	42.92	31	58	150	N
															504.90	295.9				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36	79.46	54.38	40	38	168	N	
															547.86	374.9				

YE108 / 35

BODY	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152	N
															511.87	301				
BONNET	ASTM A216 WCB-2008	A 11898	0.220	0.46	0.89	0.028	0.018	0.031	0.036	0.005	0.054	0.003	0.028	0.38	74.53	44.37	30	57	152	N
															513.87	305.9				
WEDGE	ASTM A216 WCB-2008	X 1082	0.21	0.45	0.79	0.015	0.013	0.25	0.11	0.12	0.13	0.017	0.42		81.35	52.06	32	40	170	N
															560.89	358.9				

YE108 / 36

BODY	ASTM A216 WCB-2008	A 11893	0.200	0.47	0.88	0.026	0.015	0.026	0.063	0.009	0.04	0.007	0.036	0.37	73.08	43.36	32	58	149	N
															503.87	299				
BONNET	ASTM A216 WCB-2008	A 11885	0.210	0.42	0.95	0.020	0.007	0.024	0.046	0.001	0.039	0.006	0.031	0.38	75.40	44.95	27	54	156	N
															519.86	309.9				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36		79.46	54.38	40	38	168	N
															547.86	374.9				

YE108 / 37

BODY	ASTM A216 WCB-2008	A 12000	0.200	0.45	0.93	0.025	0.01	0.027	0.048	0.019	0.04	0.005	0.042	0.37	75.26	44.37	30	57	152	N
															518.9	305.9				
BONNET	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005	0.013	0.38	73.95	43.50	30	57	152	N
															509.87	299.9				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36		79.46	54.38	40	38	168	N
															547.86	374.9				

YE108 / 38

BODY	ASTM A216 WCB-2008	A 12002	0.220	0.47	0.95	0.027	0.013	0.033	0.06	0.019	0.039	0.005	0.013	0.40	73.23	42.92	31	58	150	N
															504.90	295.9				
BONNET	ASTM A216 WCB-2008	A 11894	0.200	0.43	0.87	0.02	0.011	0.027	0.077	0.018	0.031	0.009	0.012	0.37	76.13	45.10	28	54	156	N
															524.9	311				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36		79.46	54.38	40	38	168	N
															547.86	374.9				

YE108 / 39

BODY	ASTM A216 WCB-2008	A 12014	0.210	0.40	0.91	0.031	0.011	0.041	0.071	0.008	0.034	0.004	0.005	0.38	76.13	45.82	27	56	153	N
															524.9	315.9				
BONNET	ASTM A216 WCB-2008	A 11886	0.200	0.45	0.88	0.024	0.014	0.029	0.055	0.003	0.033	0.005	0.36		76.56	45.53	29	53	154	N
															527.86	313.9				
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017	0.37		77.87	52.93	39	40	172	N
															536.89	364.9				

YE108 / 40

BODY	ASTM A216 WCB-2008	A 12001	0.210	0.46	0.87	0.023	0.016	0.026	0.055	0.017	0.031	0.004	0.026	0.37	76.56	45.24	26	53	157	N
															527.86	311.9				
BONNET	ASTM A216 WCB-2008	A 12013	0.210	0.41	0.88	0.030	0.016	0.030	0.083	0.001	0.033	0.005	0.005	0.38	73.95	43.79	32	57	151	N
															509.87	301.9				
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015	0.36		79.46	54.38	40	38	168	N
															547.86	374.9				

YE108 / 41

BODY	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005	0.021	0.37	76.56	45.53	26	53	155	N
															527.86	313.9				
BONNET	ASTM A216 WCB-2008	A 11898	0.220	0.46	0.89	0.028	0.018	0.031	0.036	0.005	0.054	0.003	0.028	0.38	74.53	44.37	30	57	152	N
															513.87	305.9				
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017	0.37		77.87	52.93	39	40	172	N
															536.89	364.9				

YE108 / 42

BODY	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152	N
															511.87	301				
BONNET	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005	0.021	0.39	74.24	43.65	31	58	152	N
															511.87	301				

WEDGE	ASTM A216 WCB-2008	X 1083	0.20	0.45	0.83	0.018	0.016	0.21	0.15	0.09	0.13	0.015		0.41	80.62	50.90	33	40	170		N
															555.86	350.9					

YE108 / 43

BODY	ASTM A216 WCB-2008	A 11900	0.200	0.44	0.96	0.026	0.014	0.028	0.059	0.001	0.038	0.006		0.014	0.38	76.56	45.53	28	57	154		N
																527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12006	0.220	0.43	0.89	0.025	0.014	0.05	0.09	0.012	0.036	0.005		0.003	0.40	74.24	44.37	31	58	150		N
																511.87	305.9					
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36		79.46	54.38	40	38	168		N
																547.86	374.9					

YE108 / 44

BODY	ASTM A216 WCB-2008	A 12015	0.200	0.44	0.91	0.032	0.013	0.027	0.062	0.001	0.034	0.006		0.007	0.37	74.53	44.37	31	57	152		N
																513.87	305.9					
BONNET	ASTM A216 WCB-2008	A 12009	0.210	0.43	0.95	0.028	0.015	0.027	0.057	0.002	0.031	0.005		0.02	0.39	73.95	43.79	30	57	150		N
																509.87	301.9					
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36		79.46	54.38	40	38	168		N
																547.86	374.9					

YE108 / 45

BODY	ASTM A216 WCB-2008	A 11886	0.200	0.45	0.88	0.024	0.014	0.029	0.055	0.003	0.033	0.005		0.36		76.56	45.53	29	53	154		N
																527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12002	0.220	0.47	0.95	0.027	0.013	0.033	0.06	0.019	0.039	0.005		0.013	0.40	73.23	42.92	31	58	150		N
																504.90	295.9					
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017		0.37		77.87	52.93	39	40	172		N
																536.89	364.9					

YE108 / 46

BODY	ASTM A216 WCB-2008	A 11887	0.220	0.47	0.87	0.024	0.012	0.027	0.05	0.007	0.041	0.005		0.38		72.50	43.07	34	58	150		N
																499.87	297					
BONNET	ASTM A216 WCB-2008	A 11885	0.210	0.42	0.95	0.020	0.007	0.024	0.046	0.001	0.039	0.006		0.031	0.38	75.40	44.95	27	54	156		N
																519.86	309.9					
WEDGE	ASTM A217 CA15-2007	D 6732	0.10	0.89	0.82	0.026	0.010	0.128	12.81	0.010	0.026					103.68	73.23	20	49	267		N
																714.85	504.9					

YE108 / 47

BODY	ASTM A216 WCB-2008	A 12011	0.210	0.43	0.88	0.028	0.012	0.030	0.061	0.003	0.034	0.005		0.013	0.37	76.13	44.95	27	54	155		N
																524.9	309.9					
BONNET	ASTM A216 WCB-2008	A 12010	0.210	0.40	0.85	0.028	0.015	0.027	0.055	0.006	0.038	0.006		0.011	0.37	73.08	43.36	31	58	147		N
																503.87	299					
WEDGE	ASTM A216 WCB-2007	X 0978	0.21	0.46	0.84	0.018	0.013	0.015	0.018	0.011	0.13	0.017		0.37		77.87	52.93	39	40	172		N
																536.89	364.9					

YE108 / 48

BODY	ASTM A216 WCB-2008	A 12003	0.210	0.42	0.93	0.025	0.014	0.036	0.087	0.003	0.04	0.005		0.021	0.39	74.24	43.65	31	58	152		N
																511.87	301					
BONNET	ASTM A216 WCB-2008	A 11882	0.200	0.46	0.89	0.025	0.014	0.029	0.050	0.001	0.045	0.005		0.028	0.36	76.27	45.39	30	57	155		N
																525.86	313					
WEDGE	ASTM A216 WCB-2008	X 1021	0.21	0.50	0.85	0.028	0.022	0.021	0.021	0.019	0.12	0.015		0.37		79.61	53.36	39	39	168		N
																548.89	367.9					

YE108 / 49

BODY	ASTM A216 WCB-2008	A 11890	0.210	0.49	0.91	0.021	0.014	0.021	0.039	0.001	0.035	0.005		0.044	0.37	74.24	43.79	32	57	151		N
																511.87	301.9					
BONNET	ASTM A216 WCB-2008	A 12014	0.210	0.40	0.91	0.031	0.011	0.041	0.071	0.008	0.034	0.004		0.005	0.38	76.13	45.82	27	56	153		N
																524.9	315.9					
WEDGE	ASTM A216 WCB-2008	X 1017	0.19	0.48	0.83	0.022	0.019	0.023	0.017	0.018	0.13	0.018		0.35		79.90	53.65	40	39	173		N
																550.89	369.9					

YE108 / 50

BODY	ASTM A216 WCB-2008	A 12004	0.210	0.44	0.91	0.025	0.013	0.028	0.059	0.002	0.037	0.005	0.03	0.38	75.98	45.10	27	56	155		N
															523.86	311					
BONNET	ASTM A216 WCB-2008	A 12007	0.210	0.45	0.92	0.026	0.010	0.029	0.055	0.002	0.037	0.004	0.007	0.38	73.08	43.07	31	58	151		N
															503.87	297					
WEDGE	ASTM A216 WCB-2008	X 1017	0.19	0.48	0.83	0.022	0.019	0.023	0.017	0.018	0.13	0.018		0.35	79.90	53.65	40	39	173		N
															550.89	369.9					

YE108 / 51

BODY	ASTM A216 WCB-2008	A 11999	0.210	0.47	0.87	0.031	0.016	0.025	0.051	0.018	0.037	0.005	0.021	0.37	76.56	45.53	26	53	155		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005	0.013	0.38	73.95	43.50	30	57	152		N
															509.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 7046	0.12	0.90	0.81	0.025	0.011	0.129	12.60	0.093	0.035				104.55	73.95	19.3	48	266		N
															720.85	509.9					

YE108 / 52

BODY	ASTM A216 WCB-2008	A 11886	0.200	0.45	0.88	0.024	0.014	0.029	0.055	0.003	0.033	0.005		0.36	76.56	45.53	29	53	154		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 11899	0.200	0.43	0.92	0.022	0.012	0.025	0.058	0.001	0.04	0.004	0.031	0.37	73.37	43.21	33	58	149		N
															505.87	297.9					
WEDGE	ASTM A217 CA15-2007	D 6732	0.10	0.89	0.82	0.026	0.010	0.128	12.81	0.010	0.026				103.68	73.23	20	49	267		N
															714.85	504.9					

YE108 / 53

BODY	ASTM A216 WCB-2008	A 12000	0.200	0.45	0.93	0.025	0.01	0.027	0.048	0.019	0.04	0.005	0.042	0.37	75.26	44.37	30	57	152		N
															518.9	305.9					
BONNET	ASTM A216 WCB-2008	A 12005	0.210	0.42	0.9	0.024	0.014	0.035	0.063	0.015	0.038	0.005	0.013	0.38	73.95	43.50	30	57	152		N
															509.87	299.9					
WEDGE	ASTM A216 WCB-2007	X 0979	0.20	0.45	0.87	0.014	0.011	0.017	0.016	0.013	0.13	0.015		0.36	79.46	54.38	40	38	168		N
															547.86	374.9					

YE108 / 54

BODY	ASTM A216 WCB-2008	A 11896	0.210	0.49	0.89	0.025	0.015	0.024	0.044	0.001	0.034	0.004	0.02	0.37	74.68	44.37	30	57	151		N
															514.90	305.9					
BONNET	ASTM A216 WCB-2008	A 12012	0.210	0.46	0.95	0.029	0.012	0.034	0.063	0.001	0.038	0.005	0.035	0.39	76.42	45.53	26	53	156		N
															526.9	313.9					
WEDGE	ASTM A217 CA15-2007	D 6732	0.10	0.89	0.82	0.026	0.010	0.128	12.81	0.010	0.026				103.68	73.23	20	49	267		N
															714.85	504.9					

YE108 / 55

BODY	ASTM A216 WCB-2008	A 11900	0.200	0.44	0.96	0.026	0.014	0.028	0.059	0.001	0.038	0.006	0.014	0.38	76.56	45.53	28	57	154		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 12011	0.210	0.43	0.88	0.028	0.012	0.030	0.061	0.003	0.034	0.005	0.013	0.37	76.13	44.95	27	54	155		N
															524.9	309.9					
WEDGE	ASTM A216 WCB-2007	X 0976	0.20	0.46	0.83	0.014	0.017	0.012	0.017	0.013	0.13	0.015		0.36	77.43	52.35	38	40	173		N
															533.86	360.9					

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>WQ</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.

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 Jiayin Eastern Valve company Ltd. :

