

**Certificate/Serial/Job No:** XF09

*Quality Department: John Ho*

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
90	4	150	/ 103039	DSI 37XUF	GATE				4/21/2011

<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]

**XF09 / 35**

BODY	ASTM A216 WCB-2008	A 9137	0.210	0.41	0.89	0.023	0.017	0.029	0.046	0.003	0.031	0.003				0.006	0.37	75.40	44.95	27	56	153							N
																		519.86	309.9										
BONNET	ASTM A216 WCB-2008	W 13718	0.217	0.45	0.94	0.025	0.017	0.016	0.024	0.001	0.027	0.004					0.38	82.80	54.96	27.8	56	158							N
																		570.89	378.9										
WEDGE	ASTM A217 CA15-2007	D 2846	0.11	0.83	0.78	0.028	0.010	0.102	12.59	0.036	0.096							99.76	71.05	20	48	268							N
																		687.82	489.9										

**XF09 / 36**

BODY	ASTM A216 WCB-2008	W 12708	0.205	0.416	0.950	0.021	0.012	0.032	0.041	0.009	0.041	0.003					0.38	74.97	42.92	30.0	54.0	154							N
																		516.9	295.9										
BONNET	ASTM A216 WCB-2008	W 13213	0.199	0.43	0.90	0.023	0.014	0.043	0.064	0.009	0.025	0.003					0.37	86.86	54.96	29	50	166							N
																		598.88	378.9										
WEDGE	ASTM A217 CA15-2007	D 2301	0.10	0.94	0.82	0.019	0.010	0.202	12.42	0.035	0.069							102.95	72.50	20.7	51	261							N
																		709.82	499.9										

**XF09 / 37**

BODY	ASTM A216 WCB-2008	W 12631	0.204	0.490	0.910	0.029	0.016	0.041	0.079	0.014	0.031	0.001					0.38	77.87	46.11	24.0	37.5	168							N
																		536.89	317.9										
BONNET	ASTM A216 WCB-2008	A 9341	0.210	0.46	0.88	0.024	0.013	0.017	0.031	0.001	0.029	0.005				0.012	0.37	74.68	44.66	28	56	153							N
																		514.90	307.9										
WEDGE	ASTM A217 CA15-2007	D 2308	0.10	0.89	0.77	0.019	0.010	0.149	12.49	0.015	0.048							103.24	72.94	18.8	49	254							N
																		711.81	502.9										

**XF09 / 38**

BODY	ASTM A216 WCB-2008	W 13555	0.214	0.40	0.93	0.030	0.019	0.015	0.006	0.001	0.018	0.003					0.37	83.38	56.12	31	57	163							N
																		574.88	386.9										
BONNET	ASTM A216 WCB-2008	W 13681	0.207	0.46	0.96	0.028	0.018	0.014	0.015	0.001	0.029	0.005					0.38	82.22	55.54	28.8	54	172							N
																		566.89	382.9										
WEDGE	ASTM A217 CA15-2007	D 2324	0.11	0.92	0.75	0.011	0.010	0.143	12.09	0.034	0.055							104.98	74.10	20.3	53	266							N
																		723.81	510.9										

**XF09 / 39**

BODY	ASTM A216 WCB-2008	W 12610	0.191	0.43	0.90	0.023	0.028	0.021	0.036	0.006	0.005	0.005		0.35	75.40	43.94	25.0	48.0	152		N	
															519.86	303						
BONNET	ASTM A216 WCB-2008	A 9336	0.200	0.45	0.98	0.024	0.014	0.014	0.043	0.002	0.025	0.004		0.007	0.38	76.13	45.10	27.0	54.0	153		N
															524.9	311						
WEDGE	ASTM A217 CA15-2007	D 2319	0.10	0.97	0.82	0.018	0.021	0.149	12.28	0.052	0.071				100.63	70.91	20.5	50	266		N	
															693.82	488.9						

**XF09 / 40**

BODY	ASTM A216 WCB-2008	A 9156	0.200	0.44	0.84	0.024	0.017	0.025	0.053	0.001	0.031	0.005		0.014	0.36	76.42	45.53	27	54	155		N
															526.9	313.9						
BONNET	ASTM A216 WCB-2008	W 13685	0.210	0.45	0.90	0.035	0.023	0.033	0.078	0.001	0.037	0.006			0.38	84.54	49.01	28.4	55	162		N
															582.88	337.9						
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095				104.55	77.14	18.8	49	257		N	
															720.85	531.9						

**XF09 / 41**

BODY	ASTM A216 WCB-2008	W 13576	0.206	0.40	0.85	0.028	0.011	0.028	0.006	0.001	0.022	0.003			0.35	77.00	45.68	31.0	50.0	159		N
															530.9	315						
BONNET	ASTM A216 WCB-2008	A 9343	0.210	0.44	0.92	0.024	0.015	0.009	0.026	0.001	0.024	0.005		0.014	0.37	76.56	45.53	25	52	157		N
															527.86	313.9						
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095				104.55	77.14	18.8	49	257		N	
															720.85	531.9						

**XF09 / 42**

BODY	ASTM A216 WCB-2008	W 13736	0.214	0.46	0.99	0.025	0.013	0.043	0.019	0.001	0.023	0.005			0.39	79.75	52.06	28.6	53	169		N
															549.86	358.9						
BONNET	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						
WEDGE	ASTM A217 CA15-2007	D 2302	0.11	0.97	0.82	0.030	0.011	0.171	12.42	0.041	0.048				102.08	71.92	18.6	49	263		N	
															703.82	495.9						

**XF09 / 43**

BODY	ASTM A216 WCB-2008	W 12612	0.209	0.479	0.898	0.034	0.012	0.058	0.204	0.001	0.035	0.005			0.41	78.30	48.72	29.0	52.0	160		N
															539.86	335.9						
BONNET	ASTM A216 WCB-2008	W 13673	0.211	0.48	0.98	0.028	0.019	0.012	0.026	0.001	0.025	0.016			0.39	80.33	52.06	28.6	52	162		N
															553.86	358.9						
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095				104.55	77.14	18.8	49	257		N	
															720.85	531.9						

**XF09 / 44**

BODY	ASTM A216 WCB-2008	W 13112	0.202	0.50	0.95	0.035	0.015	0.022	0.048	0.001	0.032	0.005			0.38	81.64	53.80	29	61	167		N
															562.89	370.9						
BONNET	ASTM A216 WCB-2008	A 9348	0.230	0.50	0.95	0.024	0.012	0.020	0.038	0.001	0.033	0.004		0.017	0.40	75.84	44.95	29	55	154		N
															522.9	309.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058				102.81	74.10	19.6	49	261		N	
															708.85	510.9						

**XF09 / 45**

BODY	ASTM A216 WCB-2008	W 13505	0.195	0.42	0.89	0.028	0.015	0.022	0.036	0.001	0.025	0.005			0.35	88.02	61.48	29	57	154		N
															606.88	423.9						
BONNET	ASTM A216 WCB-2008	W 13723	0.200	0.47	0.98	0.032	0.016	0.022	0.027	0.001	0.030	0.005			0.37	78.59	59.16	28.2	53	165		N
															541.86	407.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058				102.81	74.10	19.6	49	261		N	
															708.85	510.9						

**XF09 / 46**

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		0.009	0.37	74.97	44.37	32	57	155		N
															516.9	305.9						
BONNET	ASTM A216 WCB-2008	W 13673	0.211	0.48	0.98	0.028	0.019	0.012	0.026	0.001	0.025	0.016			0.39	80.33	52.06	28.6	52	162		N
															553.86	358.9						



BODY	ASTM A216 WCB-2008	W 13360	0.202	0.46	0.93	0.026	0.015	0.014	0.021	0.001	0.025	0.001	0.36	82.22	54.38	29	56	157		N
														566.89	374.9					
BONNET	ASTM A216 WCB-2008	W 13685	0.210	0.45	0.90	0.035	0.023	0.033	0.078	0.001	0.037	0.006	0.38	84.54	49.01	28.4	55	162		N
														582.88	337.9					
WEDGE	ASTM A217 CA15-2007	D 2304	0.10	0.95	0.80	0.023	0.010	0.154	12.56	0.051	0.097			104.55	73.66	19	48	262		N
														720.85	507.9					

**XF09 / 55**

BODY	ASTM A216 WCB-2008	W 13682	0.205	0.43	0.99	0.031	0.018	0.068	0.031	0.001	0.030	0.005	0.38	82.80	56.70	29.0	56	162		N
														570.89	390.9					
BONNET	ASTM A216 WCB-2008	W 13619	0.213	0.44	0.96	0.032	0.018	0.021	0.031	0.001	0.028	0.005	0.38	81.64	50.90	29	54	169		N
														562.89	350.9					
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N
														708.85	510.9					

**XF09 / 56**

BODY	ASTM A216 WCB-2008	A 9161	0.200	0.44	0.88	0.022	0.018	0.021	0.043	0.001	0.030	0.005	0.008	0.36	74.24	43.94	29	56	151		N
														511.87	303						
BONNET	ASTM A216 WCB-2008	A 9149	0.210	0.44	0.90	0.022	0.014	0.021	0.039	0.001	0.027	0.004	0.02	0.37	73.23	43.50	32	58	153		N
														504.90	299.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N	
														708.85	510.9						

**XF09 / 57**

BODY	ASTM A216 WCB-2008	W 13083	0.217	0.44	0.96	0.032	0.013	0.017	0.013	0.001	0.029	0.008	0.39	79.75	50.90	29	53	166		N
														549.86	350.9					
BONNET	ASTM A216 WCB-2008	W 13598	0.199	0.53	0.98	0.024	0.016	0.025	0.020	0.001	0.036	0.003	0.37	79.75	52.06	28	56	157		N
														549.86	358.9					
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N
														708.85	510.9					

**XF09 / 58**

BODY	ASTM A216 WCB-2008	W 12630	0.200	0.396	0.904	0.029	0.015	0.018	0.030	0.001	0.032	0.002	0.36	78.01	46.98	28.2	58.0	164		N	
														537.86	323.9						
BONNET	ASTM A216 WCB-2008	A 9167	0.200	0.42	0.89	0.023	0.016	0.024	0.046	0.001	0.040	0.005	0.014	0.36	74.68	44.08	29	56	152		N
														514.90	303.9						
WEDGE	ASTM A217 CA15-2007	D 2318	0.10	0.969	0.87	0.030	0.017	0.167	12.38	0.078	0.069			105.71	75.55	20	53	270		N	
														728.84	520.9						

**XF09 / 59**

BODY	ASTM A216 WCB-2008	W 12612	0.209	0.479	0.898	0.034	0.012	0.058	0.204	0.001	0.035	0.005	0.41	78.30	48.72	29.0	52.0	160		N
														539.86	335.9					
BONNET	ASTM A216 WCB-2008	W 13213	0.199	0.43	0.90	0.023	0.014	0.043	0.064	0.009	0.025	0.003	0.37	86.86	54.96	29	50	166		N
														598.88	378.9					
WEDGE	ASTM A217 CA15-2007	D 2846	0.11	0.83	0.78	0.028	0.010	0.102	12.59	0.036	0.096			99.76	71.05	20	48	268		N
														687.82	489.9					

**XF09 / 60**

BODY	ASTM A216 WCB-2008	A 8785	0.200	0.42	0.86	0.018	0.013	0.018	0.039	0.001	0.023	0.004	0.032	0.35	77.14	46.40	24	50	162		N
														531.86	319.9						
BONNET	ASTM A216 WCB-2008	A 9164	0.200	0.40	0.80	0.021	0.013	0.021	0.052	0.001	0.032	0.005	0.025	0.35	74.53	44.37	29	56	155		N
														513.87	305.9						
WEDGE	ASTM A217 CA15-2007	D 2846	0.11	0.83	0.78	0.028	0.010	0.102	12.59	0.036	0.096			99.76	71.05	20	48	268		N	
														687.82	489.9						

**XF09 / 61**

BODY	ASTM A216 WCB-2008	W 13682	0.205	0.43	0.99	0.031	0.018	0.068	0.031	0.001	0.030	0.005	0.38	82.80	56.70	29.0	56	162		N	
														570.89	390.9						
BONNET	ASTM A216 WCB-2008	A 9164	0.200	0.40	0.80	0.021	0.013	0.021	0.052	0.001	0.032	0.005	0.025	0.35	74.53	44.37	29	56	155		N
														513.87	305.9						



BODY	ASTM A216 WCB-2008	A 9337	0.210	0.46	0.87	0.026	0.016	0.018	0.032	0.001	0.023	0.006	0.027	0.37	76.71	46.11	25	52	157		N
															528.9	317.9					
BONNET	ASTM A216 WCB-2008	A 9341	0.210	0.46	0.88	0.024	0.013	0.017	0.031	0.001	0.029	0.005	0.012	0.37	74.68	44.66	28	56	153		N
															514.90	307.9					
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095				104.55	77.14	18.8	49	257		N
															720.85	531.9					

**XF09 / 70**

BODY	ASTM A216 WCB-2008	W 12616	0.209	0.456	0.963	0.030	0.007	0.025	0.040	0.001	0.033	0.003	0.38	75.55	44.66	28.0	49.0	162		N	
														520.9	307.9						
BONNET	ASTM A216 WCB-2008	A 9339	0.220	0.40	0.87	0.027	0.017	0.019	0.037	0.003	0.023	0.005	0.041	0.38	73.81	43.50	31	58	150		N
														508.90	299.9						
WEDGE	ASTM A217 CA15-2007	D 2845	0.10	1.00	0.83	0.023	0.010	0.173	12.86	0.026	0.098			103.39	73.08	19.5	52	270		N	
														712.85	503.9						

**XF09 / 71**

BODY	ASTM A216 WCB-2008	W 13680	0.213	0.43	0.96	0.026	0.015	0.010	0.023	0.001	0.028	0.005	0.38	86.86	57.28	28.4	58	158		N	
														598.88	394.9						
BONNET	ASTM A216 WCB-2008	A 9336	0.200	0.45	0.98	0.024	0.014	0.014	0.043	0.002	0.025	0.004	0.007	0.38	76.13	45.10	27.0	54.0	153		N
														524.9	311						
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095			104.55	77.14	18.8	49	257		N	
														720.85	531.9						

**XF09 / 72**

BODY	ASTM A216 WCB-2008	W 13616	0.216	0.46	0.94	0.032	0.020	0.017	0.063	0.001	0.033	0.003	0.39	78.59	51.48	29	53	163		N	
														541.86	354.9						
BONNET	ASTM A216 WCB-2008	A 9340	0.200	0.47	0.91	0.025	0.016	0.024	0.053	0.002	0.027	0.006	0.014	0.37	76.42	45.53	26.0	53.0	154		N
														526.9	313.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N	
														708.85	510.9						

**XF09 / 73**

BODY	ASTM A216 WCB-2008	A 9160	0.200	0.40	0.80	0.020	0.014	0.022	0.043	0.001	0.033	0.004	0.02	0.35	77.14	46.26	25	51	160		N
														531.86	319						
BONNET	ASTM A216 WCB-2008	W 13685	0.210	0.45	0.90	0.035	0.023	0.033	0.078	0.001	0.037	0.006	0.38	84.54	49.01	28.4	55	162		N	
														582.88	337.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N	
														708.85	510.9						

**XF09 / 74**

BODY	ASTM A216 WCB-2008	W 13654	0.218	0.49	0.96	0.034	0.019	0.014	0.021	0.001	0.027	0.004	0.39	80.91	50.90	30	58	174		N	
														557.85	350.9						
BONNET	ASTM A216 WCB-2008	W 13681	0.207	0.46	0.96	0.028	0.018	0.014	0.015	0.001	0.029	0.005	0.38	82.22	55.54	28.8	54	172		N	
														566.89	382.9						
WEDGE	ASTM A217 CA15-2007	D 2315	0.10	0.94	0.87	0.023	0.010	0.149	12.52	0.055	0.050			103.97	73.66	20.6	50	262		N	
														716.85	507.9						

**XF09 / 75**

BODY	ASTM A216 WCB-2008	W 13726	0.191	0.40	0.89	0.034	0.021	0.025	0.034	0.001	0.032	0.005	0.35	80.91	51.48	28.2	52	167		N	
														557.85	354.9						
BONNET	ASTM A216 WCB-2008	A 9147	0.220	0.41	0.87	0.026	0.019	0.021	0.048	0.005	0.026	0.005	0.005	0.38	73.52	43.21	32	58	150		N
														506.90	297.9						
WEDGE	ASTM A217 CA15-2007	D 2310	0.11	0.99	0.83	0.017	0.010	0.138	12.91	0.022	0.058			99.62	72.21	20	48	263		N	
														686.86	497.9						

**XF09 / 76**

BODY	ASTM A216 WCB-2008	A 8591	0.200	0.45	0.84	0.026	0.014	0.020	0.047	0.002	0.045	0.005	0.007	0.36	76.56	45.97	26.0	52.0	158		N
														527.86	317						
BONNET	ASTM A216 WCB-2008	A 9332	0.200	0.43	0.80	0.019	0.012	0.015	0.029	0.002	0.015	0.003	0.012	0.34	74.24	43.94	28.0	56.0	152		N
														511.87	303						

WEDGE	ASTM A217 CA15-2007	D 2319	0.10	0.97	0.82	0.018	0.021	0.149	12.28	0.052	0.071			100.63	70.91	20.5	50	266		N
														693.82	488.9					

**XF09 / 77**

BODY	ASTM A216 WCB-2008	A 9137	0.210	0.41	0.89	0.023	0.017	0.029	0.046	0.003	0.031	0.003		0.006	0.37	75.40	44.95	27	56	153		N
																519.86	309.9					
BONNET	ASTM A216 WCB-2008	W 13213	0.199	0.43	0.90	0.023	0.014	0.043	0.064	0.009	0.025	0.003			0.37	86.86	54.96	29	50	166		N
																598.88	378.9					
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058					102.81	74.10	19.6	49	261		N
																708.85	510.9					

**XF09 / 78**

BODY	ASTM A216 WCB-2008	A 9338	0.210	0.44	0.90	0.026	0.018	0.028	0.042	0.006	0.019	0.005			0.37	73.95	43.94	34.0	57.0	152		N
																509.87	303					
BONNET	ASTM A216 WCB-2008	W 13689	0.220	0.44	0.90	0.039	0.014	0.017	0.013	0.001	0.023	0.002			0.38	85.12	47.85	29.6	50	159		N
																586.88	329.9					
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095					104.55	77.14	18.8	49	257		N
																720.85	531.9					

**XF09 / 79**

BODY	ASTM A216 WCB-2008	W 13702	0.205	0.42	0.90	0.027	0.014	0.023	0.036	0.001	0.030	0.005			0.37	83.96	52.64	29.0	56	162		N
																578.88	362.9					
BONNET	ASTM A216 WCB-2008	W 13685	0.210	0.45	0.90	0.035	0.023	0.033	0.078	0.001	0.037	0.006			0.38	84.54	49.01	28.4	55	162		N
																582.88	337.9					
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058					102.81	74.10	19.6	49	261		N
																708.85	510.9					

**XF09 / 80**

BODY	ASTM A216 WCB-2008	W 13671	0.214	0.49	0.97	0.029	0.015	0.014	0.017	0.001	0.026	0.004			0.39	80.91	52.64	29.6	56	163		N
																557.85	362.9					
BONNET	ASTM A216 WCB-2008	A 9167	0.200	0.42	0.89	0.023	0.016	0.024	0.046	0.001	0.040	0.005		0.014	0.36	74.68	44.08	29	56	152		N
																514.90	303.9					
WEDGE	ASTM A217 CA15-2007	D 2322	0.12	0.87	0.74	0.029	0.010	0.304	12.63	0.040	0.084					103.53	72.79	19.1	49	268		N
																713.81	501.9					

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BODY	ASTM A216 WCB-2008	W 13722	0.201	0.41	0.89	0.031	0.017	0.015	0.030	0.001	0.030	0.005			0.36	85.12	54.38	28.6	57	171		N
																586.88	374.9					
BONNET	ASTM A216 WCB-2008	A 9339	0.220	0.40	0.87	0.027	0.017	0.019	0.037	0.003	0.023	0.005		0.041	0.38	73.81	43.50	31	58	150		N
																508.90	299.9					
WEDGE	ASTM A217 CA15-2007	D 2324	0.11	0.92	0.75	0.011	0.010	0.143	12.09	0.034	0.055					104.98	74.10	20.3	53	266		N
																723.81	510.9					

**XF09 / 82**

BODY	ASTM A216 WCB-2008	W 13693	0.220	0.41	0.89	0.033	0.011	0.026	0.012	0.001	0.022	0.002			0.37	75.55	42.78	29.0	46	160		N
																520.9	295					
BONNET	ASTM A216 WCB-2008	A 9346	0.200	0.43	0.85	0.027	0.020	0.016	0.087	0.005	0.025	0.005		0.03	0.36	76.85	46.11	26	52	157		N
																529.86	317.9					
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058					102.81	74.10	19.6	49	261		N
																708.85	510.9					

**XF09 / 83**

BODY	ASTM A216 WCB-2008	W 13035	0.198	0.41	0.94	0.033	0.017	0.017	0.019	0.001	0.027	0.004			0.36	82.80	52.64	29	57	171		N
																570.89	362.9					
BONNET	ASTM A216 WCB-2008	A 9335	0.200	0.53	0.93	0.027	0.015	0.017	0.042	0.002	0.024	0.004		0.021	0.37	74.10	43.79	30	57	151		N
																510.90	301.9					
WEDGE	ASTM A217 CA15-2007	D 2845	0.10	1.00	0.83	0.023	0.010	0.173	12.86	0.026	0.098					103.39	73.08	19.5	52	270		N
																712.85	503.9					

**XF09 / 84**

BODY	ASTM A216 WCB-2008	W 13712	0.202	0.42	0.96	0.038	0.020	0.025	0.026	0.001	0.032	0.005	0.37	85.70	54.38	26.8	50	158		N	
														590.88	374.9						
BONNET	ASTM A216 WCB-2008	A 9167	0.200	0.42	0.89	0.023	0.016	0.024	0.046	0.001	0.040	0.005	0.014	0.36	74.68	44.08	29	56	152		N
														514.90	303.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N	
														708.85	510.9						

**XF09 / 85**

BODY	ASTM A216 WCB-2008	A 9333	0.210	0.48	0.94	0.031	0.021	0.025	0.049	0.005	0.033	0.005	0.044	0.38	75.40	44.95	26	52	154		N
														519.86	309.9						
BONNET	ASTM A216 WCB-2008	W 13689	0.220	0.44	0.90	0.039	0.014	0.017	0.013	0.001	0.023	0.002		0.38	85.12	47.85	29.6	50	159		N
														586.88	329.9						
WEDGE	ASTM A217 CA15-2007	D 2844	0.09	0.80	0.70	0.027	0.010	0.109	12.42	0.020	0.095			104.55	77.14	18.8	49	257		N	
														720.85	531.9						

**XF09 / 86**

BODY	ASTM A216 WCB-2008	W 13441	0.212	0.47	0.97	0.026	0.015	0.018	0.018	0.001	0.024	0.002		0.38	90.48	57.28	29.0	52.0	169		N
														623.84	394.9						
BONNET	ASTM A216 WCB-2008	A 9349	0.220	0.45	0.84	0.031	0.016	0.019	0.047	0.001	0.027	0.005	0.008	0.37	73.37	43.50	36	58	149		N
														505.87	299.9						
WEDGE	ASTM A217 CA15-2007	D 2319	0.10	0.97	0.82	0.018	0.021	0.149	12.28	0.052	0.071			100.63	70.91	20.5	50	266		N	
														693.82	488.9						

**XF09 / 87**

BODY	ASTM A216 WCB-2008	A 9130	0.200	0.45	0.86	0.024	0.018	0.021	0.039	0.001	0.030	0.005	0.02	0.36	76.42	45.68	26	53	155		N
														526.9	315						
BONNET	ASTM A216 WCB-2008	W 13713	0.218	0.44	0.98	0.033	0.021	0.015	0.030	0.001	0.031	0.006		0.39	79.17	52.06	29.0	54	163		N
														545.86	358.9						
WEDGE	ASTM A217 CA15-2007	D 2847	0.11	0.99	0.74	0.025	0.010	0.129	12.06	0.053	0.058			102.81	74.10	19.6	49	261		N	
														708.85	510.9						

**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. : 