



Inspection Certificate and Material Test Report
(EN10204-1991 3.1.B / EN10204-2004 3.1)

DSI-Valve Solutions
12735 Dairy Ashford
Stafford TX 77477
281-637-2000 - Fax 281-637-2299
www.dsivalve.com

Certificate/Serial/Job No: YE104

Quality Department: John Ho

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
98	3	300	/ 103058	DSI 23XUF	GATE				4/22/2012

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
------------------------------	--	--	---	---	---

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]

YE104 / 2

BODY	ASTM A216 WCB-2008	A 11689	0.210	0.45	0.89	0.025	0.015	0.027	0.060	0.001	0.039	0.005		0.03	0.38	75.98 523.86	45.39 313	26	54	155							N
BONNET	ASTM A216 WCB-2008	A 11434	0.200	0.42	0.87	0.024	0.012	0.025	0.048	0.001	0.031	0.005		0.025	0.36	73.08 503.87	43.36 299	31	58	151							N
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027					104.26 718.85	73.08 503.9	20.1	46	253						N	

YE104 / 3

BODY	ASTM A216 WCB-2008	A 11672	0.200	0.45	0.85	0.025	0.014	0.029	0.052	0.005	0.033	0.006		0.02	0.36	75.98 523.86	45.82 315.9	27	54	155							N
BONNET	ASTM A216 WCB-2008	A 11670	0.230	0.47	0.89	0.025	0.014	0.036	0.058	0.009	0.040	0.005		0.036	0.40	73.23 504.90	43.07 297	31	58	149							N
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027					104.26 718.85	73.08 503.9	20.1	46	253						N	

YE104 / 4

BODY	ASTM A216 WCB-2008	A 11528	0.200	0.46	0.93	0.021	0.010	0.023	0.053	0.001	0.029	0.004		0.038	0.37	74.24 511.87	44.37 305.9	28	57	150							N
BONNET	ASTM A216 WCB-2008	A 11683	0.210	0.47	0.83	0.025	0.015	0.027	0.048	0.001	0.037	0.005		0.006	0.36	76.27 525.86	45.53 313.9	27	56	153							N
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027					104.26 718.85	73.08 503.9	20.1	46	253						N	

YE104 / 5

BODY	ASTM A216 WCB-2008	A 11676	0.210	0.44	0.86	0.033	0.018	0.026	0.056	0.001	0.034	0.004		0.009	0.37	74.68 514.90	44.95 309.9	28	56	157							N
BONNET	ASTM A216 WCB-2008	A 11676	0.210	0.44	0.86	0.033	0.018	0.026	0.056	0.001	0.034	0.004		0.009	0.37	74.68 514.90	44.95 309.9	28	56	157							N
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027					104.26 718.85	73.08 503.9	20.1	46	253						N	

YE104 / 6

BODY	ASTM A216 WCB-2008	A 10297	0.220	0.43	0.89	0.029	0.020	0.031	0.089	0.008	0.038	0.005	0.015	0.39	72.50	43.07	30	56	149		N
															499.87	297					
BONNET	ASTM A216 WCB-2008	A 11681	0.200	0.41	0.80	0.025	0.016	0.022	0.043	0.001	0.037	0.004	0.007	0.35	74.24	43.50	29	56	153		N
															511.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 5453	0.13	0.92	0.73	0.027	0.011	0.121	12.05	0.021	0.011				102.66	73.52	20	49	260		N
															707.82	506.9					

YE104 / 7

BODY	ASTM A216 WCB-2008	A 10857	0.200	0.51	0.95	0.026	0.016	0.025	0.045	0.004	0.036	0.004	0.054	0.37	72.94	43.36	31	57	150		N
															502.90	299					
BONNET	ASTM A216 WCB-2008	A 11429	0.200	0.46	0.90	0.025	0.011	0.024	0.154	0.001	0.037	0.006	0.06	0.39	73.37	43.50	31	58	150		N
															505.87	299.9					
WEDGE	ASTM A217 CA15-2007	D 4099	0.12	0.91	0.83	0.025	0.010	0.154	12.52	0.030	0.039				103.97	74.10	19.7	52	259		N
															716.85	510.9					

YE104 / 8

BODY	ASTM A216 WCB-2008	A 11523	0.220	0.50	0.85	0.029	0.015	0.031	0.049	0.001	0.038	0.004	0.045	0.38	74.53	44.23	28	57	153		N
															513.87	305					
BONNET	ASTM A216 WCB-2008	A 11688	0.210	0.44	0.92	0.018	0.011	0.025	0.047	0.001	0.051	0.005	0.026	0.38	75.98	44.95	27	56	153		N
															523.86	309.9					
WEDGE	ASTM A217 CA15-2007	D 6728	0.10	0.87	0.80	0.022	0.013	0.114	12.60	0.090	0.021				102.08	72.21	19	50	260		N
															703.82	497.9					

YE104 / 9

BODY	ASTM A216 WCB-2007	A 8480	0.200	0.44	0.82	0.024	0.015	0.044	0.160	0.044	0.034	0.005	0.036	0.38	76.85	46.40	25.0	51.0	160		N
															529.86	319.9					
BONNET	ASTM A216 WCB-2008	A 11524	0.200	0.45	0.89	0.023	0.017	0.066	0.054	0.001	0.098	0.004	0.011	0.37	75.84	44.95	26	54	157		N
															522.9	309.9					
WEDGE	ASTM A217 CA15-2007	D 6730	0.11	0.84	0.77	0.023	0.012	0.108	12.52	0.095	0.027				105.27	74.39	18.6	48	260		N
															725.81	512.9					

YE104 / 10

BODY	ASTM A216 WCB-2008	A 11524	0.200	0.45	0.89	0.023	0.017	0.066	0.054	0.001	0.098	0.004	0.011	0.37	75.84	44.95	26	54	157		N
															522.9	309.9					
BONNET	ASTM A216 WCB-2008	A 10595	0.200	0.47	0.83	0.023	0.015	0.022	0.058	0.001	0.034	0.005	0.022	0.35	73.95	43.94	29	56	150		N
															509.87	303					
WEDGE	ASTM A217 CA15-2007	D 6727	0.12	0.91	0.78	0.025	0.012	0.108	12.46	0.095	0.022				105.42	74.39	18.6	48	262		N
															726.85	512.9					

YE104 / 11

BODY	ASTM A216 WCB-2008	A 10287	0.220	0.40	0.84	0.020	0.015	0.011	0.019	0.001	0.025	0.005	0.026	0.37	75.69	44.95	26	54	154		N
															521.86	309.9					
BONNET	ASTM A216 WCB-2008	A 10287	0.220	0.40	0.84	0.020	0.015	0.011	0.019	0.001	0.025	0.005	0.026	0.37	75.69	44.95	26	54	154		N
															521.86	309.9					
WEDGE	ASTM A217 CA15-2007	D 6728	0.10	0.87	0.80	0.022	0.013	0.114	12.60	0.090	0.021				102.08	72.21	19	50	260		N
															703.82	497.9					

YE104 / 12

BODY	ASTM A216 WCB-2008	A 11681	0.200	0.41	0.80	0.025	0.016	0.022	0.043	0.001	0.037	0.004	0.007	0.35	74.24	43.50	29	56	153		N
															511.87	299.9					
BONNET	ASTM A216 WCB-2008	A 11435	0.210	0.46	0.89	0.025	0.012	0.038	0.076	0.001	0.036	0.005	0.016	0.38	74.10	43.50	30	57	150		N
															510.90	299.9					
WEDGE	ASTM A217 CA15-2007	D 6730	0.11	0.84	0.77	0.023	0.012	0.108	12.52	0.095	0.027				105.27	74.39	18.6	48	260		N
															725.81	512.9					

YE104 / 13

BODY	ASTM A216 WCB-2008	A 11268	0.220	0.43	0.96	0.023	0.013	0.028	0.060	0.003	0.042	0.005	0.011	0.40	76.13	45.53	26	54	155		N
															524.9	313.9					
BONNET	ASTM A216 WCB-2008	A 10287	0.220	0.40	0.84	0.020	0.015	0.011	0.019	0.001	0.025	0.005	0.026	0.37	75.69	44.95	26	54	154		N
															521.86	309.9					

BODY	ASTM A216 WCB-2008	A 11429	0.200	0.46	0.90	0.025	0.011	0.024	0.154	0.001	0.037	0.006	0.06	0.39	73.37	43.50	31	58	150		N
															505.87	299.9					
BONNET	ASTM A216 WCB-2008	A 11670	0.230	0.47	0.89	0.025	0.014	0.036	0.058	0.009	0.040	0.005	0.036	0.40	73.23	43.07	31	58	149		N
															504.90	297					
WEDGE	ASTM A217 CA15-2007	D 6730	0.11	0.84	0.77	0.023	0.012	0.108	12.52	0.095	0.027				105.27	74.39	18.6	48	260		N
															725.81	512.9					

YE104 / 22

BODY	ASTM A216 WCB-2008	A 11667	0.200	0.47	0.92	0.025	0.011	0.027	0.055	0.001	0.033	0.005	0.028	0.37	76.27	45.53	26	54	156		N
															525.86	313.9					
BONNET	ASTM A216 WCB-2008	A 11529	0.200	0.43	0.90	0.027	0.016	0.027	0.049	0.007	0.035	0.005	0.02	0.37	71.63	41.91	31	58	147		N
															493.87	289					
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027				104.26	73.08	20.1	46	253		N
															718.85	503.9					

YE104 / 23

BODY	ASTM A216 WCB-2008	A 11364	0.210	0.44	0.98	0.024	0.012	0.034	0.055	0.007	0.044	0.006	0.022	0.39	73.95	43.50	30	58	150		N
															509.87	299.9					
BONNET	ASTM A216 WCB-2008	A 11523	0.220	0.50	0.85	0.029	0.015	0.031	0.049	0.001	0.038	0.004	0.045	0.38	74.53	44.23	28	57	153		N
															513.87	305					
WEDGE	ASTM A217 CA15-2007	D 6730	0.11	0.84	0.77	0.023	0.012	0.108	12.52	0.095	0.027				105.27	74.39	18.6	48	260		N
															725.81	512.9					

YE104 / 24

BODY	ASTM A216 WCB-2008	A 11673	0.200	0.42	0.86	0.026	0.015	0.026	0.055	0.004	0.031	0.006	0.02	0.36	72.94	43.36	30	57	150		N
															502.90	299					
BONNET	ASTM A216 WCB-2008	A 11682	0.200	0.39	0.87	0.025	0.016	0.023	0.037	0.001	0.042	0.004	0.008	0.36	72.94	42.92	30	57	150		N
															502.90	295.9					
WEDGE	ASTM A217 CA15-2007	D 6729	0.10	0.86	0.84	0.022	0.012	0.107	12.28	0.098	0.020				104.69	75.98	20.5	52	257		N
															721.81	523.9					

YE104 / 25

BODY	ASTM A216 WCB-2008	A 11667	0.200	0.47	0.92	0.025	0.011	0.027	0.055	0.001	0.033	0.005	0.028	0.37	76.27	45.53	26	54	156		N
															525.86	313.9					
BONNET	ASTM A216 WCB-2008	W 15432	0.213	0.43	0.99	0.035	0.022	0.047	0.052	0.001	0.029	0.006	0.057	0.37	75.55	47.27	29	54	162		N
															520.9	325.9					
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027				104.26	73.08	20.1	46	253		N
															718.85	503.9					

YE104 / 26

BODY	ASTM A216 WCB-2008	A 11366	0.200	0.44	0.92	0.022	0.011	0.034	0.066	0.002	0.035	0.009	0.04	0.37	76.13	45.97	26	53	157		N
															524.9	317					
BONNET	ASTM A216 WCB-2008	A 11677	0.220	0.45	0.96	0.027	0.014	0.024	0.052	0.002	0.032	0.005	0.009	0.40	76.27	45.53	27	55	154		N
															525.86	313.9					
WEDGE	ASTM A217 CA15-2007	D 6731	0.10	0.86	0.81	0.023	0.011	0.110	12.62	0.091	0.027				104.26	73.08	20.1	46	253		N
															718.85	503.9					

YE104 / 27

BODY	ASTM A216 WCB-2008	A 10973	0.200	0.42	0.87	0.031	0.019	0.029	0.054	0.002	0.044	0.006	0.021	0.36	74.53	44.23	28	57	152		N
															513.87	305					
BONNET	ASTM A216 WCB-2008	A 11680	0.210	0.45	0.96	0.023	0.015	0.024	0.045	0.002	0.033	0.005	0.011	0.38	76.71	45.53	26	53	159		N
															528.9	313.9					
WEDGE	ASTM A217 CA15-2007	D 6730	0.11	0.84	0.77	0.023	0.012	0.108	12.52	0.095	0.027				105.27	74.39	18.6	48	260		N
															725.81	512.9					

YE104 / 28

BODY	ASTM A216 WCB-2008	A 11266	0.210	0.46	0.87	0.025	0.018	0.044	0.033	0.028	0.026	0.003		0.37	76.56	45.53	26	53	157		N
															527.86	313.9					
BONNET	ASTM A216 WCB-2008	A 11075	0.220	0.44	0.91	0.028	0.016	0.018	0.036	0.003	0.027	0.004	0.022	0.38	77.29	46.11	26	52	156		N
															532.9	317.9					

