

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

Batch No :

LI01

PBV Valve
12735 Dairy Ashford Rd.
Stafford TX 77477
281-340-5400 - Fax 281-340-5499
www.pbvvalve.com

Quantity	Size (NPS)	Class	Product	Description	Type	SONumber	Line	Sold to	Date
200	2	600	57307020	PBV C-4460-31-2236-CT-NL-I2	FBALL				10/27/201

Pressure Test: ☒ **Satisfactory**
Shell Pressure : 2264 psi
BackSeat : psi
Seat Pressure 1668 psi
Seat Air Pressure 87 psi

HEAT#	Specification	Chemical Composition [%]													Mechanical Properties										
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	W	Nb	Ceq	Tensile	Yield	Elong	Redu	Hard	Ch.1	Ch.2	Ch.3	Ch. A	Temp.	Heat
															[ksi]	[ksi]	[%]	[%]	[HB]	[J]	[J]	[J]	[J]	[F]	
04177	ASTM A216-WCB	.17	.34	.98	.021	.003	.01	.03	.007	.03	.007				78.26	47.39	26	50	156						N
14405	ASTM A216-WCB	.16	.32	1	.007	.001	.01	.02	.002	.02	.001				80.28	51.59	25	40	160						N
8102	ASTM A216-WCB	0.2	0.53	0.83	0.021	0.019	0.04	0.08	0.04	0.06	0.005				74.92	46.37	26	39	161						N
8168	ASTM A216-WCB	0.21	0.49	0.9	0.026	0.013	0.07	0.17	0.04	0.04	0.002				75.65	47.10	27	48	161						N
8174	ASTM A216-WCB	0.23	0.52	0.95	0.026	0.018	0.06	0.06	0.03	0.05	0.002				77.53	49.13	30	51	162						N
8181	ASTM A216-WCB	0.19	0.5	0.92	0.028	0.02	0.07	0.19	0.03	0.07	0.003				72.75	45.07	28	46	158						N
8190	ASTM A216-WCB	0.2	0.53	0.88	0.025	0.015	0.05	0.05	0.04	0.05	0.006				75.07	46.95	26	43	161						N
8199	ASTM A216-WCB	0.2	0.52	0.9	0.02	0.014	0.06	0.06	0.05	0.04	0.002				74.49	46.37	26	43	160						N
8234	ASTM A216-WCB	0.2	0.5	0.87	0.029	0.018	0.05	0.08	0.02	0.05	0.002				76.23	45.65	30	51	164						N
8252	ASTM A216-WCB	0.19	0.5	0.89	0.03	0.019	0.06	0.15	0.03	0.06	0.002				74.63	46.08	30	51	161						N
8253	ASTM A216-WCB	0.23	0.56	0.92	0.036	0.015	0.05	0.09	0.04	0.04	0.002				79.13	51.44	29	46	163						N
8254	ASTM A216-WCB	0.2	0.5	0.92	0.023	0.016	0.03	0.07	0.02	0.07	0.005				74.05	46.08	29	49	160						N
8256	ASTM A216-WCB	0.22	0.57	0.94	0.035	0.015	0.04	0.05	0.02	0.04	0.003				77.53	49.13	29	48	162						N
8257	ASTM A216-WCB	0.19	0.48	0.86	0.034	0.015	0.06	0.12	0.03	0.06	0.004				73.76	45.79	27	44	159						N
8258	ASTM A216-WCB	0.2	0.89	0.47	0.016	0.028	0.12	0.03	0.05	0.05	0.004				74.05	46.08	28	48	160						N
8259	ASTM A216-WCB	0.19	0.51	0.88	0.026	0.016	0.04	0.07	0.02	0.06	0.003				73.47	44.92	27	44	158						N
8260	ASTM A216-WCB	0.21	0.52	0.89	0.04	0.015	0.04	0.06	0.03	0.05	0.004				75.21	47.53	27	46	160						N
8294	ASTM A216-WCB	0.19	0.5	0.83	0.03	0.015	0.04	0.08	0.04	0.05	0.003				73.91	45.07	27	44	159						N
8296	ASTM A216-WCB	0.21	0.47	0.94	0.03	0.017	0.05	0.05	0.02	0.06	0.004				75.65	47.39	30	51	161						N
8298	ASTM A216-WCB	0.22	0.53	0.92	0.03	0.017	0.07	0.39	0.08	0.07	0.002				77.53	49.13	30	49	162						N
8299	ASTM A216-WCB	0.23	0.56	1	0.028	0.013	0.07	0.24	0.05	0.05	0.002				80.14	51.30	31	55	165						N
8301	ASTM A216-WCB	0.18	0.49	0.97	0.03	0.016	0.14	0.34	0.05	0.04	0.003				72.60	42.60	27	48	159						N
8302	ASTM A216-WCB	0.18	0.46	0.8	0.034	0.014	0.02	0.06	0.02	0.04	0.002				72.02	42.75	26	40	157						N
8304	ASTM A216-WCB	0.22	0.57	0.97	0.033	0.015	0.05	0.05	0.03	0.05	0.003				77.10	48.69	31	53	162						N
8306	ASTM A216-WCB	0.18	0.46	0.85	0.032	0.015	0.08	0.12	0.03	0.07	0.004				71.73	41.01	26	44	157						N
8308	ASTM A216-WCB	0.19	0.52	0.87	0.028	0.017	0.05	0.13	0.03	0.04	0.002				73.47	44.92	27	43	158						N

8328	.	ASTM A216-WCB	0.2	0.93	0.53	0.014	0.023	0.03	0.02	0.03	0.04	0.003	74.63	46.52	31	55	161	N
8359	.	ASTM A216-WCB	0.18	0.51	0.93	0.026	0.016	0.03	0.1	0.02	0.07	0.005	72.31	42.17	31	53	158	N
Y	.	ASTM A276-316	.065	.75	1.34	.031	.03	10.3	17.23	2.07			75.4	31	48	61	184	SA
B22	.	ASTM A351-CF8M	.0557	.977	1.22	.0276	.0075	9.55	18.39	2.16			77.68	39.21	47		159	SA

Wednesday, November 05, 2014

Batch/Serial No L101

Quality Department

Page 2 of 17

Heat Treatment Codes:

A : Annealing	AC : Air Cooling	DA : Double-Aged	FT : Furnace Treatment	N : Normalizing	OU : Oil Quenched
Ph-3 : Precipitation Hardening	SA : Solution Annealed	SQ : Solution Quenched	ST : Solution Treatment	T : Tempering	WC : Water Cooling
WQ : Water Quenched				NT : Normalized/Tempered	

Wednesday, November 05, 2014

Batch/Serial No L101

Quality Department *Glenn Johnson*

Part	Heat No	RTNo	MPNo
L101 / 1 BALL	B22		
L101 / 1 BODY	8259		
L101 / 1 CAP	14405		
L101 / 1 STEM	Y		
L101 / 2 BALL	B22		
L101 / 2 BODY	8190		
L101 / 2 CAP	14405		
L101 / 2 STEM	Y		
L101 / 3 BALL	B22		
L101 / 3 BODY	8301		
L101 / 3 CAP	14405		
L101 / 3 STEM	Y		
L101 / 4 BALL	B22		
L101 / 4 BODY	8308		
L101 / 4 CAP	14405		
L101 / 4 STEM	Y		
L101 / 5 BALL	B22		
L101 / 5 BODY	8308		
L101 / 5 CAP	14405		
L101 / 5 STEM	Y		
L101 / 6 BALL	B22		
L101 / 6 BODY	8302		
L101 / 6 CAP	14405		
L101 / 6 STEM	Y		
L101 / 7 BALL	B22		
L101 / 7 BODY	8102		
L101 / 7 CAP	14405		
L101 / 7 STEM	Y		
L101 / 8 BALL	B22		
L101 / 8 BODY	8306		
L101 / 8 CAP	14405		
L101 / 8 STEM	Y		
L101 / 9 BALL	B22		
L101 / 9 BODY	8308		
L101 / 9 CAP	14405		
L101 / 9 STEM	Y		
L101 / 10 BALL	B22		
L101 / 10 BODY	8257		
L101 / 10 CAP	14405		
L101 / 10 STEM	Y		
L101 / 11 BALL	B22		
L101 / 11 BODY	8304		
L101 / 11 CAP	14405		
L101 / 11 STEM	Y		
L101 / 12 BALL	B22		
L101 / 12 BODY	8301		
L101 / 12 CAP	14405		
L101 / 12 STEM	Y		
L101 / 13 BALL	B22		
L101 / 13 BODY	8298		
L101 / 13 CAP	14405		
L101 / 13 STEM	Y		
L101 / 14 BALL	B22		
L101 / 14 BODY	8257		
L101 / 14 CAP	14405		
L101 / 14 STEM	Y		
L101 / 15 BALL	B22		
L101 / 15 BODY	8253		

Part	Material
BALL	ASTM A351 CF8M
BODY / CAP	ASTM A216 WCB
BOLTING	ASTM A193 B7M / ASTM A194 2HM
GASKET/PACKING	GRAPHITE / PTFE
SEAT	TFM
STEM	ASTM A276 316

Batch/Serial No L101

Quality Department

John M. Brown

LI01	/	15	CAP	14405
LI01	/	15	STEM	Y
LI01	/	16	BALL	B22
LI01	/	16	BODY	8304
LI01	/	16	CAP	14405
LI01	/	16	STEM	Y
LI01	/	17	BALL	B22
LI01	/	17	BODY	8259
LI01	/	17	CAP	14405
LI01	/	17	STEM	Y
LI01	/	18	BALL	B22
LI01	/	18	BODY	8256
LI01	/	18	CAP	14405
LI01	/	18	STEM	Y
LI01	/	19	BALL	B22
LI01	/	19	BODY	8260
LI01	/	19	CAP	14405
LI01	/	19	STEM	Y
LI01	/	20	BALL	B22
LI01	/	20	BODY	8259
LI01	/	20	CAP	14405
LI01	/	20	STEM	Y
LI01	/	21	BALL	B22
LI01	/	21	BODY	8258
LI01	/	21	CAP	14405
LI01	/	21	STEM	Y
LI01	/	22	BALL	B22
LI01	/	22	BODY	8304
LI01	/	22	CAP	14405
LI01	/	22	STEM	Y
LI01	/	23	BALL	B22
LI01	/	23	BODY	8298
LI01	/	23	CAP	14405
LI01	/	23	STEM	Y
LI01	/	24	BALL	B22
LI01	/	24	BODY	8298
LI01	/	24	CAP	14405
LI01	/	24	STEM	Y
LI01	/	25	BALL	B22
LI01	/	25	BODY	8302
LI01	/	25	CAP	14405
LI01	/	25	STEM	Y
LI01	/	26	BALL	B22
LI01	/	26	BODY	8306
LI01	/	26	CAP	14405
LI01	/	26	STEM	Y
LI01	/	27	BALL	B22
LI01	/	27	BODY	8301
LI01	/	27	CAP	14405
LI01	/	27	STEM	Y
LI01	/	28	BALL	B22
LI01	/	28	BODY	8294
LI01	/	28	CAP	14405
LI01	/	28	STEM	Y
LI01	/	29	BALL	B22
LI01	/	29	BODY	8359
LI01	/	29	CAP	14405
LI01	/	29	STEM	Y
LI01	/	30	BALL	B22
LI01	/	30	BODY	8234

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department *John M. Macica*

LI01	/	30	CAP	14405
LI01	/	30	STEM	Y
LI01	/	31	BALL	822
LI01	/	31	BODY	8259
LI01	/	31	CAP	14405
LI01	/	31	STEM	Y
LI01	/	32	BALL	822
LI01	/	32	BODY	8260
LI01	/	32	CAP	14405
LI01	/	32	STEM	Y
LI01	/	33	BALL	822
LI01	/	33	BODY	8257
LI01	/	33	CAP	14405
LI01	/	33	STEM	Y
LI01	/	34	BALL	822
LI01	/	34	BODY	8253
LI01	/	34	CAP	14405
LI01	/	34	STEM	Y
LI01	/	35	BALL	822
LI01	/	35	BODY	8302
LI01	/	35	CAP	14405
LI01	/	35	STEM	Y
LI01	/	36	BALL	822
LI01	/	36	BODY	8259
LI01	/	36	CAP	14405
LI01	/	36	STEM	Y
LI01	/	37	BALL	822
LI01	/	37	BODY	8259
LI01	/	37	CAP	14405
LI01	/	37	STEM	Y
LI01	/	38	BALL	822
LI01	/	38	BODY	8298
LI01	/	38	CAP	14405
LI01	/	38	STEM	Y
LI01	/	39	BALL	822
LI01	/	39	BODY	8298
LI01	/	39	CAP	14405
LI01	/	39	STEM	Y
LI01	/	40	BALL	822
LI01	/	40	BODY	8302
LI01	/	40	CAP	14405
LI01	/	40	STEM	Y
LI01	/	41	BALL	822
LI01	/	41	BODY	8259
LI01	/	41	CAP	14405
LI01	/	41	STEM	Y
LI01	/	42	BALL	822
LI01	/	42	BODY	8256
LI01	/	42	CAP	14405
LI01	/	42	STEM	Y
LI01	/	43	BALL	822
LI01	/	43	BODY	8259
LI01	/	43	CAP	14405
LI01	/	43	STEM	Y
LI01	/	44	BALL	822
LI01	/	44	BODY	8259
LI01	/	44	CAP	14405
LI01	/	44	STEM	Y
LI01	/	45	BALL	822
LI01	/	45	BODY	8301

L101	/	45	CAP	14405
L101	/	45	STEM	Y
L101	/	46	BALL	B22
L101	/	46	BODY	8257
L101	/	46	CAP	14405
L101	/	46	STEM	Y
L101	/	47	BALL	B22
L101	/	47	BODY	8302
L101	/	47	CAP	14405
L101	/	47	STEM	Y
L101	/	48	BALL	B22
L101	/	48	BODY	8302
L101	/	48	CAP	14405
L101	/	48	STEM	Y
L101	/	49	BODY	8253
L101	/	49	CAP	14405
L101	/	49	STEM	Y
L101	/	50	BALL	B22
L101	/	50	BODY	8302
L101	/	50	CAP	14405
L101	/	50	STEM	Y
L101	/	51	BALL	B22
L101	/	51	BODY	8302
L101	/	51	CAP	14405
L101	/	51	STEM	Y
L101	/	52	BALL	B22
L101	/	52	BODY	8298
L101	/	52	CAP	14405
L101	/	52	STEM	Y
L101	/	53	BALL	B22
L101	/	53	BODY	8298
L101	/	53	CAP	14405
L101	/	53	STEM	Y
L101	/	54	BALL	B22
L101	/	54	BODY	8302
L101	/	54	CAP	14405
L101	/	54	STEM	Y
L101	/	55	BALL	B22
L101	/	55	BODY	8298
L101	/	55	CAP	14405
L101	/	55	STEM	Y
L101	/	56	BALL	B22
L101	/	56	BODY	8298
L101	/	56	CAP	14405
L101	/	56	STEM	Y
L101	/	57	BALL	B22
L101	/	57	BODY	8298
L101	/	57	CAP	14405
L101	/	57	STEM	Y
L101	/	58	BALL	B22
L101	/	58	BODY	8304
L101	/	58	CAP	14405
L101	/	58	STEM	Y
L101	/	59	BALL	B22
L101	/	59	BODY	8301
L101	/	59	CAP	14405
L101	/	59	STEM	Y
L101	/	60	BALL	B22
L101	/	60	BODY	8294

Wednesday, November 05, 2014

Batch/Serial No L101

Quality Department

Page 7 of 17

L101	/	60	CAP	14405
L101	/	60	STEM	Y
L101	/	61	BALL	822
L101	/	61	BODY	8304
L101	/	61	CAP	14405
L101	/	61	STEM	Y
L101	/	62	BALL	822
L101	/	62	BODY	8257
L101	/	62	CAP	14405
L101	/	62	STEM	Y
L101	/	63	BALL	822
L101	/	63	BODY	8301
L101	/	63	CAP	14405
L101	/	63	STEM	Y
L101	/	64	BALL	822
L101	/	64	BODY	8304
L101	/	64	CAP	14405
L101	/	64	STEM	Y
L101	/	65	BALL	822
L101	/	65	BODY	8304
L101	/	65	CAP	14405
L101	/	65	STEM	Y
L101	/	66	BALL	822
L101	/	66	BODY	8302
L101	/	66	CAP	14405
L101	/	66	STEM	Y
L101	/	67	BALL	822
L101	/	67	BODY	8253
L101	/	67	CAP	14405
L101	/	67	STEM	Y
L101	/	68	BALL	822
L101	/	68	BODY	8257
L101	/	68	CAP	14405
L101	/	68	STEM	Y
L101	/	69	BALL	822
L101	/	69	BODY	8298
L101	/	69	CAP	14405
L101	/	69	STEM	Y
L101	/	70	BALL	822
L101	/	70	BODY	8256
L101	/	70	CAP	14405
L101	/	70	STEM	Y
L101	/	71	BALL	822
L101	/	71	BODY	8298
L101	/	71	CAP	14405
L101	/	71	STEM	Y
L101	/	72	BALL	822
L101	/	72	BODY	8298
L101	/	72	CAP	14405
L101	/	72	STEM	Y
L101	/	73	BALL	822
L101	/	73	BODY	8301
L101	/	73	CAP	14405
L101	/	73	STEM	Y
L101	/	74	BALL	822
L101	/	74	BODY	8298
L101	/	74	CAP	14405
L101	/	74	STEM	Y
L101	/	75	BALL	822
L101	/	75	BODY	8294

Wednesday, November 05, 2014

Batch/Serial No L101

Quality Department

Jose M. Garcia

LI01	/ 75	CAP	14405
LI01	/ 75	STEM	Y
LI01	/ 76	BALL	B22
LI01	/ 76	BODY	8304
LI01	/ 76	CAP	14405
LI01	/ 76	STEM	Y
LI01	/ 77	BALL	B22
LI01	/ 77	BODY	8304
LI01	/ 77	CAP	14405
LI01	/ 77	STEM	Y
LI01	/ 78	BALL	B22
LI01	/ 78	BODY	8259
LI01	/ 78	CAP	14405
LI01	/ 78	STEM	Y
LI01	/ 79	BALL	B22
LI01	/ 79	BODY	8301
LI01	/ 79	CAP	14405
LI01	/ 79	STEM	Y
LI01	/ 80	BALL	B22
LI01	/ 80	BODY	8304
LI01	/ 80	CAP	14405
LI01	/ 80	STEM	Y
LI01	/ 81	BALL	B22
LI01	/ 81	BODY	8304
LI01	/ 81	CAP	14405
LI01	/ 81	STEM	Y
LI01	/ 82	BALL	B22
LI01	/ 82	BODY	8301
LI01	/ 82	CAP	14405
LI01	/ 82	STEM	Y
LI01	/ 83	BALL	B22
LI01	/ 83	BODY	8301
LI01	/ 83	CAP	14405
LI01	/ 83	STEM	Y
LI01	/ 84	BALL	B22
LI01	/ 84	BODY	8298
LI01	/ 84	CAP	14405
LI01	/ 84	STEM	Y
LI01	/ 85	BALL	B22
LI01	/ 85	BODY	8298
LI01	/ 85	CAP	14405
LI01	/ 85	STEM	Y
LI01	/ 86	BALL	B22
LI01	/ 86	BODY	8304
LI01	/ 86	CAP	14405
LI01	/ 86	STEM	Y
LI01	/ 87	BALL	B22
LI01	/ 87	BODY	8296
LI01	/ 87	CAP	14405
LI01	/ 87	STEM	Y
LI01	/ 88	BALL	B22
LI01	/ 88	BODY	8304
LI01	/ 88	CAP	14405
LI01	/ 88	STEM	Y
LI01	/ 89	BALL	B22
LI01	/ 89	BODY	8301
LI01	/ 89	CAP	14405
LI01	/ 89	STEM	Y
LI01	/ 90	BALL	B22
LI01	/ 90	BODY	8302

LI01	/	90	CAP	14405
LI01	/	90	STEM	Y
LI01	/	91	BALL	B22
LI01	/	91	BODY	8294
LI01	/	91	CAP	8174
LI01	/	91	STEM	Y
LI01	/	92	BALL	B22
LI01	/	92	BODY	8302
LI01	/	92	CAP	8174
LI01	/	92	STEM	Y
LI01	/	93	BALL	B22
LI01	/	93	BODY	8301
LI01	/	93	CAP	8254
LI01	/	93	STEM	Y
LI01	/	94	BALL	B22
LI01	/	94	BODY	8294
LI01	/	94	CAP	8292
LI01	/	94	STEM	Y
LI01	/	95	BALL	B22
LI01	/	95	BODY	8298
LI01	/	95	CAP	8199
LI01	/	95	STEM	Y
LI01	/	96	BALL	B22
LI01	/	96	BODY	8304
LI01	/	96	CAP	8199
LI01	/	96	STEM	Y
LI01	/	97	BALL	B22
LI01	/	97	BODY	8301
LI01	/	97	CAP	8181
LI01	/	97	STEM	Y
LI01	/	98	BALL	B22
LI01	/	98	BODY	8301
LI01	/	98	CAP	14405
LI01	/	98	STEM	Y
LI01	/	99	BALL	B22
LI01	/	99	BODY	8299
LI01	/	99	CAP	14405
LI01	/	99	STEM	Y
LI01	/	100	BALL	B22
LI01	/	100	BODY	8301
LI01	/	100	CAP	14405
LI01	/	100	STEM	Y
LI01	/	101	BALL	B22
LI01	/	101	BODY	8294
LI01	/	101	CAP	04177
LI01	/	101	STEM	Y
LI01	/	102	BALL	B22
LI01	/	102	BODY	8308
LI01	/	102	CAP	04177
LI01	/	102	STEM	Y
LI01	/	103	BALL	B22
LI01	/	103	BODY	8308
LI01	/	103	CAP	04177
LI01	/	103	STEM	Y
LI01	/	104	BALL	B22
LI01	/	104	BODY	8294
LI01	/	104	CAP	04177
LI01	/	104	STEM	Y
LI01	/	105	BALL	B22
LI01	/	105	BODY	8328

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department *Jose M. Moscoso*

Page 10 of 17

L01	/	105	CAP	04177
L01	/	105	STEM	Y
L01	/	106	BALL	B22
L01	/	106	BODY	8306
L01	/	106	CAP	04177
L01	/	106	STEM	Y
L01	/	107	BALL	B22
L01	/	107	BODY	8302
L01	/	107	CAP	04177
L01	/	107	STEM	Y
L01	/	108	BALL	B22
L01	/	108	BODY	8298
L01	/	108	CAP	04177
L01	/	108	STEM	Y
L01	/	109	BALL	B22
L01	/	109	BODY	8306
L01	/	109	CAP	04177
L01	/	109	STEM	Y
L01	/	110	BALL	B22
L01	/	110	BODY	8306
L01	/	110	CAP	04177
L01	/	110	STEM	Y
L01	/	111	BALL	B22
L01	/	111	BODY	8308
L01	/	111	CAP	04177
L01	/	111	STEM	Y
L01	/	112	BALL	B22
L01	/	112	BODY	8168
L01	/	112	CAP	04177
L01	/	112	STEM	Y
L01	/	113	BALL	B22
L01	/	113	BODY	8308
L01	/	113	CAP	04177
L01	/	113	STEM	Y
L01	/	114	BALL	B22
L01	/	114	BODY	8294
L01	/	114	CAP	04177
L01	/	114	STEM	Y
L01	/	115	BALL	B22
L01	/	115	BODY	8304
L01	/	115	CAP	04177
L01	/	115	STEM	Y
L01	/	116	BALL	B22
L01	/	116	BODY	8304
L01	/	116	CAP	04177
L01	/	116	STEM	Y
L01	/	117	BALL	B22
L01	/	117	BODY	8308
L01	/	117	CAP	04177
L01	/	117	STEM	Y
L01	/	118	BALL	B22
L01	/	118	BODY	8306
L01	/	118	CAP	04177
L01	/	118	STEM	Y
L01	/	119	BALL	B22
L01	/	119	BODY	8304
L01	/	119	CAP	04177
L01	/	119	STEM	Y
L01	/	120	BALL	B22
L01	/	120	BODY	8306

Wednesday, November 05, 2014

Batch/Serial No L01

Quality Department *John M. Davis*

Page 11 of 17

LI01	/	120	CAP	04177
LI01	/	120	STEM	Y
LI01	/	121	BALL	B22
LI01	/	121	BODY	8308
LI01	/	121	CAP	04177
LI01	/	121	STEM	Y
LI01	/	122	BALL	B22
LI01	/	122	BODY	8306
LI01	/	122	CAP	04177
LI01	/	122	STEM	Y
LI01	/	123	BALL	B22
LI01	/	123	BODY	8304
LI01	/	123	CAP	04177
LI01	/	123	STEM	Y
LI01	/	124	BALL	B22
LI01	/	124	BODY	8304
LI01	/	124	CAP	04177
LI01	/	124	STEM	Y
LI01	/	125	BALL	B22
LI01	/	125	BODY	8308
LI01	/	125	CAP	04177
LI01	/	125	STEM	Y
LI01	/	126	BALL	B22
LI01	/	126	BODY	8234
LI01	/	126	CAP	04177
LI01	/	126	STEM	Y
LI01	/	127	BALL	B22
LI01	/	127	BODY	8306
LI01	/	127	CAP	04177
LI01	/	127	STEM	Y
LI01	/	128	BALL	B22
LI01	/	128	BODY	8306
LI01	/	128	CAP	04177
LI01	/	128	STEM	Y
LI01	/	129	BALL	B22
LI01	/	129	BODY	8306
LI01	/	129	CAP	04177
LI01	/	129	STEM	Y
LI01	/	130	BALL	B22
LI01	/	130	BODY	8308
LI01	/	130	CAP	04177
LI01	/	130	STEM	Y
LI01	/	131	BALL	B22
LI01	/	131	BODY	8304
LI01	/	131	CAP	04177
LI01	/	131	STEM	Y
LI01	/	132	BALL	B22
LI01	/	132	BODY	8302
LI01	/	132	CAP	04177
LI01	/	132	STEM	Y
LI01	/	133	BALL	B22
LI01	/	133	BODY	8306
LI01	/	133	CAP	04177
LI01	/	133	STEM	Y
LI01	/	134	BALL	B22
LI01	/	134	BODY	8308
LI01	/	134	CAP	04177
LI01	/	134	STEM	Y
LI01	/	135	BALL	B22
LI01	/	135	BODY	8298

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department

Shirley M. Brown

LI01	/	135	CAP	04177
LI01	/	135	STEM	Y
LI01	/	136	BALL	B22
LI01	/	136	BODY	8306
LI01	/	136	CAP	04177
LI01	/	136	STEM	Y
LI01	/	137	BALL	B22
LI01	/	137	BODY	8306
LI01	/	137	CAP	04177
LI01	/	137	STEM	Y
LI01	/	138	BALL	B22
LI01	/	138	BODY	8298
LI01	/	138	CAP	04177
LI01	/	138	STEM	Y
LI01	/	139	BALL	B22
LI01	/	139	BODY	8308
LI01	/	139	CAP	04177
LI01	/	139	STEM	Y
LI01	/	140	BALL	B22
LI01	/	140	BODY	8306
LI01	/	140	CAP	04177
LI01	/	140	STEM	Y
LI01	/	141	BALL	B22
LI01	/	141	BODY	8306
LI01	/	141	CAP	04177
LI01	/	141	STEM	Y
LI01	/	142	BALL	B22
LI01	/	142	BODY	8308
LI01	/	142	CAP	04177
LI01	/	142	STEM	Y
LI01	/	143	BALL	B22
LI01	/	143	BODY	8306
LI01	/	143	CAP	04177
LI01	/	143	STEM	Y
LI01	/	144	BALL	B22
LI01	/	144	BODY	8308
LI01	/	144	CAP	04177
LI01	/	144	STEM	Y
LI01	/	145	BALL	B22
LI01	/	145	BODY	8301
LI01	/	145	CAP	04177
LI01	/	145	STEM	Y
LI01	/	146	BALL	B22
LI01	/	146	BODY	8308
LI01	/	146	CAP	04177
LI01	/	146	STEM	Y
LI01	/	147	BALL	B22
LI01	/	147	BODY	8302
LI01	/	147	CAP	04177
LI01	/	147	STEM	Y
LI01	/	148	BALL	B22
LI01	/	148	BODY	8308
LI01	/	148	CAP	04177
LI01	/	148	STEM	Y
LI01	/	149	BALL	B22
LI01	/	149	BODY	8259
LI01	/	149	CAP	04177
LI01	/	149	STEM	Y
LI01	/	150	BALL	B22
LI01	/	150	BODY	8294

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department *Shane Johnson*

Page 13 of 17

LI01 / 150	CAP	04177
LI01 / 150	STEM	Y
LI01 / 151	BALL	B22
LI01 / 151	BODY	8298
LI01 / 151	CAP	04177
LI01 / 151	STEM	Y
LI01 / 152	BALL	B22
LI01 / 152	BODY	8308
LI01 / 152	CAP	04177
LI01 / 152	STEM	Y
LI01 / 153	BALL	B22
LI01 / 153	BODY	8308
LI01 / 153	CAP	04177
LI01 / 153	STEM	Y
LI01 / 154	BALL	B22
LI01 / 154	BODY	8304
LI01 / 154	CAP	04177
LI01 / 154	STEM	Y
LI01 / 155	BALL	B22
LI01 / 155	BODY	8304
LI01 / 155	CAP	04177
LI01 / 155	STEM	Y
LI01 / 156	BALL	B22
LI01 / 156	BODY	8308
LI01 / 156	CAP	04177
LI01 / 156	STEM	Y
LI01 / 157	BALL	B22
LI01 / 157	BODY	8298
LI01 / 157	CAP	04177
LI01 / 157	STEM	Y
LI01 / 158	BALL	B22
LI01 / 158	BODY	8294
LI01 / 158	CAP	04177
LI01 / 158	STEM	Y
LI01 / 159	BALL	B22
LI01 / 159	BODY	8257
LI01 / 159	CAP	04177
LI01 / 159	STEM	Y
LI01 / 160	BALL	B22
LI01 / 160	BODY	8308
LI01 / 160	CAP	04177
LI01 / 160	STEM	Y
LI01 / 161	BALL	B22
LI01 / 161	BODY	8267
LI01 / 161	CAP	04177
LI01 / 161	STEM	Y
LI01 / 162	BALL	B22
LI01 / 162	BODY	8301
LI01 / 162	CAP	04177
LI01 / 162	STEM	Y
LI01 / 163	BALL	B22
LI01 / 163	BODY	8301
LI01 / 163	CAP	04177
LI01 / 163	STEM	Y
LI01 / 164	BALL	B22
LI01 / 164	BODY	8306
LI01 / 164	CAP	04177
LI01 / 164	STEM	Y
LI01 / 165	BALL	B22
LI01 / 165	BODY	8302
LI01 / 165	CAP	8302
LI01 / 165	STEM	Y

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department

Shirley M. Davis

L101	/	165	CAP	04177
L101	/	165	STEM	Y
L101	/	165	BALL	B22
L101	/	166	BODY	8294
L101	/	166	CAP	04177
L101	/	166	STEM	Y
L101	/	167	BALL	B22
L101	/	167	BODY	8301
L101	/	167	CAP	04177
L101	/	167	STEM	Y
L101	/	168	BALL	B22
L101	/	168	BODY	8257
L101	/	168	CAP	04177
L101	/	168	STEM	Y
L101	/	169	BALL	B22
L101	/	169	BODY	8308
L101	/	169	CAP	04177
L101	/	169	STEM	Y
L101	/	170	BALL	B22
L101	/	170	BODY	8304
L101	/	170	CAP	04177
L101	/	170	STEM	Y
L101	/	171	BALL	B22
L101	/	171	BODY	8301
L101	/	171	CAP	04177
L101	/	171	STEM	Y
L101	/	172	BALL	B22
L101	/	172	BODY	8308
L101	/	172	CAP	04177
L101	/	172	STEM	Y
L101	/	173	BALL	B22
L101	/	173	BODY	8306
L101	/	173	CAP	04177
L101	/	173	STEM	Y
L101	/	174	BALL	B22
L101	/	174	BODY	8306
L101	/	174	CAP	04177
L101	/	174	STEM	Y
L101	/	175	BALL	B22
L101	/	175	BODY	8259
L101	/	175	CAP	04177
L101	/	175	STEM	Y
L101	/	176	BALL	B22
L101	/	176	BODY	8294
L101	/	176	CAP	04177
L101	/	176	STEM	Y
L101	/	177	BALL	B22
L101	/	177	BODY	8306
L101	/	177	CAP	04177
L101	/	177	STEM	Y
L101	/	178	BALL	B22
L101	/	178	BODY	8308
L101	/	178	CAP	04177
L101	/	178	STEM	Y
L101	/	179	BALL	B22
L101	/	179	BODY	8306
L101	/	179	CAP	04177
L101	/	179	STEM	Y
L101	/	180	BALL	B22
L101	/	180	BODY	8304

Wednesday, November 05, 2014

Batch/Serial No L101

Quality Department *John M. Morris*

LI01	/	180	CAP	04177
LI01	/	180	STEM	Y
LI01	/	181	BALL	B22
LI01	/	181	BODY	8302
LI01	/	181	CAP	04177
LI01	/	181	STEM	Y
LI01	/	182	BALL	B22
LI01	/	182	BODY	8306
LI01	/	182	CAP	04177
LI01	/	182	STEM	Y
LI01	/	183	BALL	B22
LI01	/	183	BODY	8298
LI01	/	183	CAP	04177
LI01	/	183	STEM	Y
LI01	/	184	BALL	B22
LI01	/	184	BODY	8298
LI01	/	184	CAP	04177
LI01	/	184	STEM	Y
LI01	/	185	BALL	B22
LI01	/	185	BODY	8259
LI01	/	185	CAP	04177
LI01	/	185	STEM	Y
LI01	/	186	BALL	B22
LI01	/	186	BODY	8294
LI01	/	186	CAP	04177
LI01	/	186	STEM	Y
LI01	/	187	BALL	B22
LI01	/	187	BODY	8308
LI01	/	187	CAP	04177
LI01	/	187	STEM	Y
LI01	/	188	BALL	B22
LI01	/	188	BODY	8302
LI01	/	188	CAP	04177
LI01	/	188	STEM	Y
LI01	/	189	BALL	B22
LI01	/	189	BODY	8306
LI01	/	189	CAP	04177
LI01	/	189	STEM	Y
LI01	/	190	BALL	B22
LI01	/	190	BODY	8306
LI01	/	190	CAP	04177
LI01	/	190	STEM	Y
LI01	/	191	BALL	B22
LI01	/	191	BODY	8306
LI01	/	191	CAP	04177
LI01	/	191	STEM	Y
LI01	/	192	BALL	B22
LI01	/	192	BODY	8308
LI01	/	192	CAP	04177
LI01	/	192	STEM	Y
LI01	/	193	BALL	B22
LI01	/	193	BODY	8306
LI01	/	193	CAP	04177
LI01	/	193	STEM	Y
LI01	/	194	BALL	B22
LI01	/	194	BODY	8306
LI01	/	194	CAP	04177
LI01	/	194	STEM	Y
LI01	/	195	BALL	B22
LI01	/	195	BODY	8302

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department José Mascia

Page 16 of 17

LI01	/ 195	CAP	04177
LI01	/ 195	STEM	Y
LI01	/ 196	BALL	B22
LI01	/ 196	BODY	8306
LI01	/ 196	CAP	04177
LI01	/ 196	STEM	Y
LI01	/ 197	BALL	B22
LI01	/ 197	BODY	8306
LI01	/ 197	CAP	04177
LI01	/ 197	STEM	Y
LI01	/ 198	BALL	B22
LI01	/ 198	BODY	8294
LI01	/ 198	CAP	04177
LI01	/ 198	STEM	Y
LI01	/ 199	BALL	B22
LI01	/ 199	BODY	8301
LI01	/ 199	CAP	04177
LI01	/ 199	STEM	Y
LI01	/ 200	BALL	B22
LI01	/ 200	BODY	8306
LI01	/ 200	CAP	04177
LI01	/ 200	STEM	Y

Materials meet the requirements of prequalified materials listed in NACE MR0175/ISO 15156-1:2009

Valve pressure test is per API598

The valves are manufactured in accordance with NACE MR0175-2009 and to API607

Wednesday, November 05, 2014

Batch/Serial No LI01

Quality Department Lisa J. Orsica

Page 17 of 17