

**BERIC VALVE
STEM AND TORQUE DATA
CLASS 150 CAST STEEL GATE VALVES**

ACTUATOR / GEAR OPERATOR TORQUE AND OPERATIONAL REQUIREMENTS

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT		
			(mm)	(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)				(mm)	Kgf	Kgf	Kgf	Kgf*m	Kgf*m		Kgf*m	(mm)
GATE	150	2	55.5	19.05	14.82	150	285	315	3/4-6 ACME-2G-LH	4.23	1	391.7	552.86	587.78	0.84	1.18	1.26	60		
		2.5	69	19.05	14.52	150	285	315	3/4-6 ACME-2G-LH	4.23	1	489.43	689.87	734.83	1.05	1.48	1.57	83		
		3	84	22.23	17.99	150	285	315	7/8-6 ACME-2G-LH	4.23	1	594.02	647.61	904.52	1.43	2.04	2.18	85		
		4	111	25.40	20.32	150	285	315	1-5 ACME-2G-LH	5.08	1	790.49	1153.42	1235.23	2.21	3.22	3.45	116		
		5	134	28.58	23.50	150	285	315	1-1/8-5 ACME-2G-LH	5.08	1	1130.4	1552.44	1667.35	3.45	4.73	5.09	143		
		6	161	28.58	23.50	150	285	315	1-1/8-5 ACME-2G-LH	5.08	1	1363.38	2009.14	2154.73	4.16	6.13	6.57	166		
		8	212	31.75	26.67	150	285	315	1-1/4-5 ACME-2G-LH	5.08	1	2101.77	3187.97	3453.36	7.26	11.57	12.54	218		
		10	261	34.93	28.58	150	285	315	1-3/8-4 ACME-2G-LH	6.35	1	2809.67	4576.49	4971.9	10.67	17.39	18.89	273		
		12	316	38.10	31.75	150	285	315	1-1/2-0.25P-0.5L ACME-2G-LH	12.7	2	3780.64	6272.41	6830.61	16.22	26.91	29.3	334		
		14	345	41.28	34.93	150	285	315	1-5/8-0.25P-0.5L ACME-2G-LH	12.7	2	4642.24	7687.34	8374.68	23.89	37.06	40.04	362		
		16	401	44.45	38.10	150	285	315	1-3/4-0.25P-0.5L ACME-2G-LH	12.7	2	5828.49	9771.33	10661.34	30.61	48.12	52.07	449		
		18	445	47.63	41.28	150	285	315	1-7/8-0.25P-0.5L ACME-2G-LH	12.7	2	7339.61	12350.33	13481.52	39.8	62.75	67.94	479		
		20	492	50.80	44.45	150	285	315	2-0.25P-0.5L ACME-2G-LH	12.7	2	8867.7	15068.52	16468.43	49.27	78.63	85.25	532		
		24	598	57.15	48.68	150	285	315	2-1/4-0.33P-0.66L ACME-2G-LH	16.93	2	12152.09	20937.26	22920.69	77.46	125.68	136.56	623		
		26	648	63.50	54.50	150	285	315	2-1/2-0.33P-0.66L ACME-2G-LH	16.93	2	22132.81	34204.77	37625.25	83.03	128.55	141.15	705		
		30	746	69.85	61.38	150	285	315	2-3/4-0.33P-0.66L ACME-2G-LH	16.93	2	26892.25	41483.87	45632.25	113.82	175.91	193.55	794		
		32	781	69.85	61.38	150	285	315	2-3/4-0.33P-0.66L ACME-2G-LH	16.93	2							240	840	
		36	884	76.20	79.37	150	285	315	3-1/8-2 ACME-2G-LH	25.4	2	32188.62	46819.82	51501.78	190.53	294.45	323.91	926		
		42	1036	101.60	88.90	150	285	315	4-2 ACME-2G-LH	25.4	2								679.8	1092

Dr:BODY SEAT DIAMETER

Do STEM Maj. Dia

Ds STEM Min. Dia.

P1: CLASS RATE

P2: WORK PRESSURE

P3:SEAT TEST PRESSURE

F4-1:THRUST FOR P1

F4-2 THRUST FOR P2

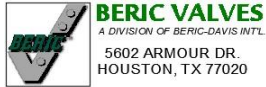
F4-3: THRUST FOR P3

T4-1: TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3: TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT		
			(inch)	(inch)	(inch)	(PSIG)	(PSIG)	(PSIG)				(inch)	(PSI)	(PSI)	(PSI)	(Ft/Lbs)	(Ft/Lbs)		(Ft/Lbs)	(inch)
GATE	150	2	2.19	0.75	0.58	150	285	315	3/4-6 ACME-2G-LH	0.167	1	863.7	1219.1	1296.1	6.1	8.5	9.1	2.36		
		2.5	2.72	0.75	0.57	150	285	315	3/4-6 ACME-2G-LH	0.167	1	1079.2	1521.2	1620.3	7.6	10.7	11.4	3.27		
		3	3.31	0.88	0.71	150	285	315	7/8-6 ACME-2G-LH	0.167	1	1309.8	1428.0	1994.5	10.3	14.7	15.8	3.35		
		4	4.35	1.00	0.80	150	285	315	1-5 ACME-2G-LH	0.200	1	1743.0	2543.3	2723.7	16.0	23.3	24.9	4.57		
		5	5.28	1.13	0.93	150	285	315	1-1/8-5 ACME-2G-LH	0.200	1	2492.5	3423.1	3676.5	24.9	34.2	36.8	5.63		
		6	6.34	1.13	0.93	150	285	315	1-1/8-5 ACME-2G-LH	0.200	1	3006.3	4430.2	4751.2	30.1	44.3	47.5	6.54		
		8	8.33	1.25	1.05	150	285	315	1-1/4-5 ACME-2G-LH	0.200	1	4634.4	7029.5	7614.7	52.5	83.7	90.7	8.58		
		10	10.3	1.38	1.13	150	285	315	1-3/8-4 ACME-2G-LH	0.250	1	6195.3	10091.2	10963.0	77.1	125.7	136.6	10.7		
		12	12.4	1.50	1.25	150	285	315	1-1/2-0.25P-0.5L ACME-2G-LH	0.500	2	8336.3	13830.7	15061.5	117.3	194.6	211.8	13.1		
		14	13.6	1.63	1.38	150	285	315	1-5/8-0.25P-0.5L ACME-2G-LH	0.500	2	10236.1	16950.6	18466.2	172.7	267.9	289.5	14.3		
		16	15.8	1.75	1.50	150	285	315	1-3/4-0.25P-0.5L ACME-2G-LH	0.500	2	12851.8	21545.8	23508.3	221.3	347.9	376.5	17.7		
		18	17.5	1.88	1.63	150	285	315	1-7/8-0.25P-0.5L ACME-2G-LH	0.500	2	16183.8	27232.5	29726.8	287.8	453.7	491.2	18.9		
		20	19.4	2.00	1.75	150	285	315	2-0.25P-0.5L ACME-2G-LH	0.500	2	19553.3	33226.1	36312.9	356.2	568.5	616.4	20.9		
		24	23.5	2.25	1.92	150	285	315	2-1/4-0.33P-0.66L ACME-2G-LH	0.667	2	26795.4	46166.7	50540.1	560.0	908.7	987.3	24.5		
		26	25.5	2.50	2.15	150	285	315	2-1/2-0.33P-0.66L ACME-2G-LH	0.667	2	48802.8	75421.5	82963.7	600.3	929.4	1020.5	27.8		
		30	29.4	2.75	2.42	150	285	315	2-3/4-0.33P-0.66L ACME-2G-LH	0.667	2	59297.4	91471.9	100619.1	822.9	1271.8	1399.4	31.3		
		32	30.7	2.75	2.42	150	285	315	2-3/4-0.33P-0.66L ACME-2G-LH	0.667	2							1735.2	33.1	
		36	34.8	3.00	3.12	150	285	315	3-1/8-2 ACME-2G-LH	1.000	2	70975.9	103237.7	113561.4	1377.5	2128.9	2341.9	36.5		
		42	40.8	4.00	3.50	150	285	315	4-2 ACME-2G-LH	1.000	2								4915.0	43



**BERIC VALVES
STEM AND TORQUE DATA
CLASS 300 CAST STEEL GATE VALVES**

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)	(mm)		Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)	
GATE	300	2	58	19.05	14.82	300	740	815	3/4-6 ACME-2G-LH	4.23	1	594.64	1066.37	1153.26	1.27	2.28	2.47	66
		2.5	72.5	19.05	14.82	300	740	815	3/4-6 ACME-2G-LH	4.23	1	736.48	1338.86	1448.11	1.58	2.87	3.1	80
		3	84	22.23	17.99	300	740	815	7/8-6 ACME-2G-LH	4.23	1	904	1671.51	1810.02	2.18	4.03	4.36	91
		4	110.5	25.40	20.32	300	740	815	1-5 ACME-2G-LH	5.08	1	1313.33	2478.74	2686.91	3.66	6.92	7.5	114
		5	137	28.58	23.50	300	740	815	1-1/8-5 ACME-2G-LH	5.08	1	1747.18	3355.85	3643.17	5.33	10.24	11.11	135
		6	161	31.75	26.67	300	740	815	1-1/4-5 ACME-2G-LH	5.08	1	2196.19	4297.84	4670.92	7.4	15.13	16.5	168
		8	211.5	34.93	28.58	300	740	815	1-3/8-4 ACME-2G-LH	6.35	1	3367.16	7057.92	7705.26	12.73	26.82	29.28	221
		10	265	38.10	31.75	300	740	815	1-1/2-0.25P-0.5L ACME-2G-LH	6.35	2	4810.74	10402.5	11373.05	20.64	44.63	48.79	284
		12	321	41.28	34.93	300	740	815	1-5/8-.025P-0.5L ACME-2G-LH	12.7	2	6580.68	14461.37	14789.68	32.12	66.81	72.83	354
		14	344	44.45	38.10	300	740	815	1-3/4-0.25P-0.5L ACME-2G-LH	12.7	2	8196.49	17958.9	19649.6	42.23	87.21	95.02	374
		16	395	47.63	41.28	300	740	815	1-7/8-0.25P-0.5L ACME-2G-LH	12.7	2	10399.84	23087.29	25279.75	54.41	114.01	128.45	421
		18	440	50.80	44.45	300	740	815	2-0.25P-0.5L ACME-2G-LH	12.7	2	12677.52	28315.41	31022.15	68.04	146.39	160.38	461
		20	492	53.98	45.51	300	740	815	2-1/8-0.33P-0.66L ACME-2G-LH	16.93	2	15640.66	35113.81	38478.18	88.53	198.74	217.79	519
		24	593	63.50	55.03	300	740	815	2-1/2-0.33P-0.66L ACME-2G-LH	16.93	2	20040.12	42093.24	45847.39	120.25	225.87	258.26	638
		28	692	76.20	63.50	300	740	815	3-0.5P-1.0L ACME-2G-LH	25.4	2	29407.14	45714.78	50286.21	120.25	225.87	405.3	698
		30	765	79.38	66.68	300	740	815	3-1/8-0.5P-1.0L ACME-2G-LH	25.4	2	34565.6	53419.57	58761.52	287.89	444.91	489.4	775
		36	883	82.60	74.42	300	740	815	3-1/4-0.5P-1.0L ACME-2G-LH	25.4	2	37411.92	57818.41	63600.25	315.94	459.55	505.5	919

Dr: BODY SEAT DIAMETER

Do STEM Maj. Dia.

Ds STEM Min. Dia

P1: CLASS RATE

P2: WORK PRESSURE

P3: SEAT TEST PRESSURE

F4-1: THRUST FOR P1

F4-2 THRUST FOR P2

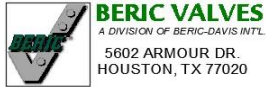
F4-3: THRUST FOR P3

T4-1: TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3: TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	(inch)	(PSIG)	(PSIG)	(PSIG)	(inch)		(PSI)	(PSI)	(PSI)	(Ft/Lbs)	(Ft/Lbs)	(Ft/Lbs)	(inch)	
GATE	300	2	2.28	0.75	0.58	300	740	815	3/4-6 ACME-2G-LH	0.167	1	1311.2	2351.3	2542.9	9.2	16.5	17.9	2.60
		2.5	2.85	0.75	0.58	300	740	815	3/4-6 ACME-2G-LH	0.167	1	1623.9	2952.2	3193.1	11.4	20.8	22.4	3.15
		3	3.31	0.88	0.71	300	740	815	7/8-6 ACME-2G-LH	0.167	1	1993.3	3685.7	3991.1	15.8	29.1	31.5	3.58
		4	4.35	1.00	0.80	300	740	815	1-5 ACME-2G-LH	0.200	1	2895.9	5465.6	5924.6	26.5	50.0	54.2	4.49
		5	5.39	1.13	0.93	300	740	815	1-1/8-5 ACME-2G-LH	0.200	1	3852.5	7399.6	8033.2	38.5	74.0	80.3	5.31
		6	6.34	1.25	1.05	300	740	815	1-1/4-5 ACME-2G-LH	0.200	1	4842.6	9476.7	10299.4	53.5	109.4	119.3	6.61
		8	8.33	1.38	1.13	300	740	815	1-3/8-4 ACME-2G-LH	0.250	1	7424.6	15562.7	16990.1	92.0	193.9	211.7	8.70
		10	10.43	1.50	1.25	300	740	815	1-1/2-0.25P-0.5L ACME-2G-LH	0.250	2	10607.7	22937.5	25077.6	149.2	322.7	352.8	11.18
		12	12.64	1.63	1.38	300	740	815	1-5/8-.025P-0.5L ACME-2G-LH	0.500	2	14510.4	31887.3	32611.2	232.2	483.0	526.6	13.94
		14	13.54	1.75	1.50	300	740	815	1-3/4-0.25P-0.5L ACME-2G-LH	0.500	2	18073.3	39599.4	43327.4	305.3	630.5	687.0	14.72
		16	15.55	1.88	1.63	300	740	815	1-7/8-0.25P-0.5L ACME-2G-LH	0.500	2	22931.6	50907.5	55741.8	393.4	824.3	928.7	16.57
		18	17.32	2.00	1.75	300	740	815	2-0.25P-0.5L ACME-2G-LH	0.500	2	27953.9	62435.5	68403.8	491.9	1058.4	1159.5	18.15
		20	19.37	2.13	1.79	300	740	815	2-1/8-0.33P-0.66L ACME-2G-LH	0.667	2	34487.7	77426.0	84844.4	640.1	1436.9	1574.6	20.43
		24	23.35	2.50	2.17	300	740	815	2-1/2-0.33P-0.66L ACME-2G-LH	0.667	2	44188.5	92815.6	101093.5	869.4	1633.0	1867.2	25.12
		28	27.24	3.00	2.50	300	740	815	3-0.5P-1.0L ACME-2G-LH	1.000	2	64842.7	100801.1	110881.1	869.4	1633.0	2930.3	27.48
		30	30.12	3.13	2.63	300	740	815	3-1/8-0.5P-1.0L ACME-2G-LH	1.000	2	76217.1	117790.2	129569.2	2081.4	3216.7	3538.4	30.51
		36	34.76	3.25	2.93	300	740	815	3-1/4-0.5P-1.0L ACME-2G-LH	1.000	2	82493.3	127489.6	140238.6	2284.2	3322.5	3654.8	36.18



**BERIC VALVES
STEM AND TORQUE DATA
CLASS 600 CAST STEEL GATE VALVES**

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)		(mm)		Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)
GATE	600	2	53	19.05	14.82	600	1480	1630	3/4-6 ACME-2G-LH	4.23	1	904.35	1817.02	1980.5	1.94	3.89	4.24	66
		3	80	25.40	20.32	600	1480	1630	1-5 ACME-2G-LH	5.08	1	1481.72	3063.9	3344.43	4.13	8.55	9.33	81
		4	105.5	28.58	23.50	600	1480	1630	1-1/8-5 ACME-2G-LH	5.08	1	2206.8	4611.44	5036.3	6.37	14.06	15.36	113
		6	156	38.10	31.75	600	1480	1630	1-1/2-0.25P-0.5L ACME-2G-LH	6.35	2	4170.35	8671.88	9694.14	16.76	35.66	38.97	165
		8	210	41.28	34.93	600	1480	1630	1-5/8-.025P-0.5L ACME-2G-LH	12.7	2	6009.17	12985.94	14232.14	32.21	69.6	76.12	221
		10	255	47.63	41.28	600	1480	1630	1-7/8-0.25P-0.5L ACME-2G-LH	12.7	2	8680.09	19574.13	21464.88	50.47	110.41	120.82	270
		12	306	50.80	44.45	600	1480	1630	2-0.25P-0.5L ACME-2G-LH	12.7	2	12048.49	27441.13	30113.4	67.51	153.33	167.91	320
		14	355	57.15	48.68	600	1480	1630	2-1/4-0.33P-0.66L ACME-2G-2LH	16.93	2	14165.48	32290.13	35436.05	97.85	216.27	236.85	376
		16	384	60.33	51.86	600	1480	1630	2-3/8-0.33P-0.66L ACME-2G-2LH	16.93	2	18402.56	42262.64	46396.28	127.32	283.14	310.19	427
		18	427	63.50	55.03	600	1480	1630	2-1/2-0.33P-0.66L ACME-2G-2LH	16.93	2	22689.11	52358.2	57487.87	59.12	355.41	389.4	453
		20	470	69.91	59.84	600	1480	1630	2-3/4-0.33P-0.66L ACME-2G-2LH	16.93	2	35601.28	69421.5	78948.57	79.85	542.21	605.12	644
		24	570	76.20	63.50	600	1480	1630	3-0.5P-1.0L ACME-2G-2LH	25.4	2	41258.19	78946.7	94668.52	109.15	855.29	1285.75	705

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Ds STEM Min. Dia.

P1: CLASS RATE

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P3: SEAT TEST PRESSURE

F4-1: THRUST FOR P1

F4-2 THRUST FOR P2

F4-3: THRUST FOR P3

T4-1: TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3: TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	(inch)	(PSIG)	(PSIG)	(PSIG)		(inch)		(PSI)	(PSI)	(PSI)	(Ft/Lbs)	(Ft/Lbs)	(Ft/Lbs)	(inch)
GATE	600	2	2.09	0.75	0.58	600	1480	1630	3/4-6 ACME-2G-LH	0.167	1	1994.1	4006.5	4367.0	14.0	28.1	30.7	2.60
		3	3.15	1.00	0.80	600	1480	1630	1-5 ACME-2G-LH	0.200	1	3267.2	6755.9	7374.5	29.9	61.8	67.5	3.19
		4	4.15	1.13	0.93	600	1480	1630	1-1/8-5 ACME-2G-LH	0.200	1	4866.0	10168.2	11105.0	46.1	101.7	111.1	4.45
		6	6.14	1.50	1.25	600	1480	1630	1-1/2-0.25P-0.5L ACME-2G-LH	0.250	2	9195.6	19121.5	21375.6	121.2	257.8	281.8	6.50
		8	8.27	1.63	1.38	600	1480	1630	1-5/8-.025P-0.5L ACME-2G-LH	0.500	2	13250.2	28634.0	31381.9	232.9	503.2	550.3	8.70
		10	10.04	1.88	1.63	600	1480	1630	1-7/8-0.25P-0.5L ACME-2G-LH	0.500	2	19139.6	43161.0	47330.1	364.9	798.3	873.5	10.63
		12	12.05	2.00	1.75	600	1480	1630	2-0.25P-0.5L ACME-2G-LH	0.500	2	26566.9	60507.7	66400.0	488.1	1108.6	1214.0	12.60
		14	13.98	2.25	1.92	600	1480	1630	2-1/4-0.33P-0.66L ACME-2G-2LH	0.667	2	31234.9	71199.7	78136.5	707.5	1563.6	1712.4	14.80
		16	15.12	2.38	2.04	600	1480	1630	2-3/8-0.33P-0.66L ACME-2G-2LH	0.667	2	40577.6	93189.1	102303.8	920.5	2047.1	2242.7	16.81
		18	16.81	2.50	2.17	600	1480	1630	2-1/2-0.33P-0.66L ACME-2G-2LH	0.667	2	50029.5	115449.8	126760.8	427.4	2569.6	2815.4	17.83
		20	18.50	2.75	2.36	600	1480	1630	2-3/4-0.33P-0.66L ACME-2G-2LH	0.667	2	78500.8	153074.4	174081.6	577.3	3920.2	4375.0	25.35
		24	22.44	3.00	2.50	600	1480	1630	3-0.5P-1.0L ACME-2G-2LH	1.000	2	90974.3	174077.5	208744.1	789.2	6183.7	9296.0	27.76



BERIC VALVES
 A DIVISION OF BERIC-DAVIS INT'L
 5602 ARMOUR DR.
 HOUSTON, TX 77020

BERIC VALVE
 STEM AND TORQUE DATA
 CLASS 900 CAST STEEL
 GATE VALVES

7/21/2015

TYPE	CLASS	SIZE	Dr	Ds	P1	P2	P3	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)	(inch)	(inch)	Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)
GATE	900	2	47	1.00-5 ACME -2G-LH	900	2220	2445	5.08	5.08		2634.5			9.5		63.5
		3	72	1.125-5 ACME -2G-LH	900	2220	2445	5.08	5.08		3985.3			15.6		88.9
		4	98	1.250-5 ACME -2G-LH	900	2220	2445	5.08	5.08		6307.8			28.7		114.3
		6	146	1.625-4 ACME -2G-LH-DL	900	2220	2445	6.35	12.7		11417.6			59.2		165.1
		8	190	1.875-4 ACME -2G-LH-DL	900	2220	2445	6.35	12.7		17834.6			103.9		241.3
		10	238	2.125-3 ACME -2G-LH-DL	900	2220	2445	8.47	16.94		27494.5			190.3		279.4
		12	282	2.250-3 ACME -2G-LH-DL	900	2220	2445	8.47	16.94		37421.5			282.9		330.2

Dr:BODY SEAT DIAMETER
 P1:CLASS RATE
 F4-1:THRUST FOR P1
 T4-1:TORQUE FOR P1

Ds STEM DIAMETER
 P2:WORK PRESSURE
 F4-2:THRUST FOR P2
 T4-2 TORQUE FOR P2

ALL ITEM:SINGLE THREAD(PITCH=LEAD)
 P3:SEAT TEST PRESSURE
 F4-3:THRUST FOR P3
 T4-3:TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Ds	P1	P2	P3	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	PSIG	PSIG	PSIG	(inch)	(inch)	(Lbs)	(Lbs)	(Lbs)	(Lbs*Ft)	(Lbs*Ft)	(Lbs*Ft)	(inch)
GATE	900	2	1.85	1.00-5 ACME -2G-LH	900	2220	2445	0.20	0.200		5808			69		2.50
		3	2.83	1.125-5 ACME -2G-LH	900	2220	2445	0.20	0.200		8786			113		3.50
		4	3.86	1.250-5 ACME -2G-LH	900	2220	2445	0.20	0.200		13906			208		4.50
		6	5.75	1.625-4 ACME -2G-LH-DL	900	2220	2445	0.25	0.500		25171			429		6.50
		8	7.48	1.875-4 ACME -2G-LH-DL	900	2220	2445	0.25	0.500		39318			753		9.50
		10	9.37	2.125-3 ACME -2G-LH-DL	900	2220	2445	0.33	0.667		60614			1379		11.00
		12	11.10	2.250-3 ACME -2G-LH-DL	900	2220	2445	0.33	0.667		82499			2050		13.00



BERIC VALVES
 A DIVISION OF BERIC-DAVIS INTL.
 5602 ARMOUR DR.
 HOUSTON, TX 77020

BERIC VALVE
 STEM AND TORQUE DATA
 CLASS 1500 CAST STEEL
 GATE VALVES

7/21/2015

TYPE	CLASS	SIZE	Dr	Ds	P1	P2	P3	PITCH	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)	(mm)	Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)
GATE	1500	2	47	1.000-5 ACME-2G-LH	1500	3705	4080	5.08		3638.8			13.1		64
		3	69	1.250-5 ACME-2G-LH	1500	3705	4080	5.08		6221.6			26.4		90
		4	92	1.375-4 ACME-2G-LH	1500	3705	4080	6.35		8936.4			40.7		120
		6	136	1.875-4 ACME-2G-LHDL	1500	3705	4080	6.35		17786.6			103.5		175
		8	177	2.125-3 ACME-2G-LHDL	1500	3705	4080	8.47		28135.0			194.9		225
		10	222	2.500-3 ACME-2G-LHDL	1500	3705	4080	8.47		40769.1			308.4		275

Dr:BODY SEAT DIAMETER
 P1:CLASS RATE
 F4-1:THRUST FOR P1
 T4-1:TORQUE FOR P1

Ds STEM DIAMETER
 P2:WORK PRESSURE
 F4-2:THRUST FOR P2
 T4-2 TORQUE FOR P2

ALL ITEM:SINGLE THREAD(PITCH=LEAD)
 P3:SEAT TEST PRESSURE
 F4-3:THRUST FOR P3
 T4-3:TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Ds	P1	P2	P3	PITCH	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	PSIG	PSIG	PSIG	(inch)	(Lbs)	(Lbs)	(Lbs)	(Lbs*Ft)	(Lbs*Ft)	(Lbs*Ft)	(inch)
GATE	1500	2	1.850394	1.000-5 ACME-2G-LH	1500	3705	4080	0.20		8022			95		2.52
		3	2.716535	1.250-5 ACME-2G-LH	1500	3705	4080	0.20		13716			191		3.54
		4	3.622047	1.375-4 ACME-2G-LH	1500	3705	4080	0.25		19701			295		4.72
		6	5.354331	1.875-4 ACME-2G-LHDL	1500	3705	4080	0.25		39212			750		6.89
		8	6.968504	2.125-3 ACME-2G-LHDL	1500	3705	4080	0.33		62026			1412		8.86
		10	8.740157	2.500-3 ACME-2G-LHDL	1500	3705	4080	0.33		89879			2235		10.83



**BERIC VALVES
STEM AND TORQUE DATA
CLASS 150 CAST STEEL GLOBE VALVES**

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)		(mm)		Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)
GLOBE	150	2	50	19.05	14.82	150	285	315	3/4-6 ACME-2G	4.23	1	482.5	719.72	773.23	1.03	1.54	1.65	25
		2.5	62	22.23	17.99	150	285	315	7/8-6 ACME-2G	4.23	1	694.4	1065.14	1148.77	1.94	2.97	3.21	25
		3	74	25.40	20.32	150	285	315	1-5 ACME-2G	5.08	1	935.12	1465.14	1584.71	2.61	4.09	4.42	31
		4	100	28.58	23.50	150	285	315	1-1/8-5 ACME-2G	5.08	1	1315.8	2110.26	2289.53	4.13	6.63	7.19	38
		5	125	31.75	26.67	150	285	315	1-1/4-5 ACME-2G	5.08	1	1778.89	2907.49	3162.17	6.46	10.55	11.48	40
		6	144	31.75	26.67	150	285	315	1-1/4-5 ACME-2G	5.08	1	2507.73	4180.11	4557.54	9.1	15.17	16.54	41
		8	200	34.93	28.58	150	285	315	1-3/8-4 ACME-2G	6.35	1	4098.47	7001.41	7656.64	15.57	26.61	29.1	53
		10	228	41.28	34.93	150	285	315	1-5/8-4 ACME-2G	6.35	1	5712.51	9898.82	10843.79	27.31	47.32	51.83	61
		12	288	50.80	44.45	150	285	315	2-4 ACME-2G	6.35	1	8097.86	14217.29	15598.7	50.53	88.72	97.34	61
		14	304	60.33	51.86	150	285	315	2-3/8-3 ACME-2G	8.467	1	9389.57	16568.13	18188.67	67.32	118.79	130.41	117
16	374	63.50	55.03	150	285	315	2-1/2-3 ACME-2G	8.467	1	13685.42	24425.54	26850.21	104.97	187.34	205.94	119		

Dr:BODY SEAT DIAMETER

Do Stem Maj. Dia.

Ds Stem Min. Dia.

P1: CLASS RATE

P2: WORK PRESSURE

P3:SEAT TEST PRESSURE

ALL ITEM: SINGLE THREAD(PITCH=LEAD)

F4-1:THRUST FOR P1

F4-2 THRUST FOR P2

F4-3: THRUST FOR P3

T4-1: TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3: TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	(inch)	(PSIG)	(PSIG)	(PSIG)		(inch)		(PSI)	(PSI)	(PSI)	(Ft/Lbs)	(Ft/Lbs)	(Ft/Lbs)	(inch)
GLOBE	150	2	1.969	0.750	0.583	150	285	315	3/4-6 ACME-2G	0.167	1	1063.9	1587.0	1705.0	7.4	11.1	11.9	0.98
		2.5	2.441	0.875	0.708	150	285	315	7/8-6 ACME-2G	0.167	1	1531.2	2348.6	2533.0	14.0	21.5	23.2	0.98
		3	2.913	1.000	0.800	150	285	315	1-5 ACME-2G	0.200	1	2061.9	3230.6	3494.3	18.9	29.6	32.0	1.22
		4	3.937	1.125	0.925	150	285	315	1-1/8-5 ACME-2G	0.200	1	2901.3	4653.1	5048.4	29.9	47.9	52.0	1.50
		5	4.921	1.250	1.050	150	285	315	1-1/4-5 ACME-2G	0.200	1	3922.5	6411.0	6972.6	46.7	76.3	83.0	1.57
		6	5.669	1.250	1.050	150	285	315	1-1/4-5 ACME-2G	0.200	1	5529.5	9217.1	10049.4	65.8	109.7	119.6	1.61
		8	7.874	1.375	1.125	150	285	315	1-3/8-4 ACME-2G	0.250	1	9037.1	15438.1	16882.9	112.6	192.4	210.4	2.09
		10	8.976	1.625	1.375	150	285	315	1-5/8-4 ACME-2G	0.250	1	12596.1	21826.9	23910.6	197.5	342.1	374.7	2.40
		12	11.339	2.000	1.750	150	285	315	2-4 ACME-2G	0.250	1	17855.8	31349.1	34395.1	365.3	641.4	703.8	2.40
		14	11.968	2.375	2.042	150	285	315	2-3/8-3 ACME-2G	0.333	1	20704.0	36532.7	40106.0	486.7	858.9	942.9	4.61
16	14.724	2.500	2.167	150	285	315	2-1/2-3 ACME-2G	0.333	1	30176.4	53858.3	59204.7	758.9	1354.5	1488.9	4.69		



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**BERIC VALVES
 STEM AND TORQUE DATA
 CLASS 600 CAST STEEL GLOBE VALVES**

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(mm)	(mm)	(mm)	(PSIG)	(PSIG)	(PSIG)		(mm)		Kgf	Kgf	Kgf	Kgf*m	Kgf*m	Kgf*m	(mm)
GLOBE	600	2	50	22.23	17.99	600	1480	1630	7/8-6 ACME-2G	4.23	1	1273.06	2809.7	3073.78	3.55	7.84	8.58	25
		3	76	31.75	26.67	600	1480	1630	1-1/4-5 ACME-2G	5.08	1	2581.09	5862.04	6425.21	9.37	21.28	23.32	40
		4	101.6	34.93	28.58	600	1480	1630	1-3/8-4 ACME-2G	6.35	1	6776.1	14173.6	15443.28	25.75	53.86	58.68	50
		6	143	50.80	44.45	600	1480	1630	2-4 ACME-2G	6.35	1	8397.61	19727.16	21670.31	52.4	123.1	135.2	75
		8	178	60.33	51.86	600	1480	1630	2-1/4-3 ACME-2G	8.467	1	12473.29	29539.8	32466.54	89.43	211.8	232.79	100
		10	245	57.15	48.68	600	1480	1630	2-3/8-3 ACME-2G	8.467	1	18715.57	44644.18	49089.43	134.19	320.1	351.97	125
		12	250	69.85	61.38	600	1480	1630	2-3/4-3 ACME-2G	8.467	1	23692.71	56721.22	62383	204.7	490.01	538.99	135
		14	294	73.00	64.57	600	1480	1630	2-7/8-3 ACME-2G	8.467	1	31239.3	75068.78	82581.24	285.21	685.38	753.97	138

Dr: BODY SEAT DIAMETER

Do: STEM Maj. Dia.

Ds: STEM Min. Dia.

P1: CLASS RATE

P2: WORK PRESSURE

P3: SEAT TEST PRESSURE

ALL ITEM: SINGLE THREAD(PITCH=LEAD)

F4-1: THRUST FOR P1

F4-2 THRUST FOR P2

F4-3: THRUST FOR P3

T4-1: TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3: TORQUE FOR P3

TYPE	CLASS	SIZE	Dr	Do	Ds	P1	P2	P3	THREAD	PITCH	LEAD	F4-1	F4-2	F4-3	T4-1	T4-2	T4-3	LIFT
			(inch)	(inch)	(inch)	(PSIG)	(PSIG)	(PSIG)		(inch)		(PSI)	(PSI)	(PSI)	(Ft/Lbs)	(Ft/Lbs)	(Ft/Lbs)	(inch)
GLOBE	600	2	1.969	0.875	0.708	600	1480	1630	7/8-6 ACME-2G	0.167	1	2807.1	6195.4	6777.7	25.7	56.7	62.0	0.984
		3	2.992	1.250	1.050	600	1480	1630	1-1/4-5 ACME-2G	0.200	1	5691.3	12925.8	14167.6	67.7	153.9	168.6	1.575
		4	4.000	1.375	1.125	600	1480	1630	1-3/8-4 ACME-2G	0.250	1	14941.3	31252.8	34052.4	186.2	389.4	424.3	1.969
		6	5.630	2.000	1.750	600	1480	1630	2-4 ACME-2G	0.250	1	18516.7	43498.4	47783.0	378.9	890.0	977.5	2.953
		8	7.008	2.375	2.042	600	1480	1630	2-1/4-3 ACME-2G	0.333	1	27503.6	65135.3	71588.7	646.6	1531.3	1683.1	3.937
		10	9.646	2.250	1.917	600	1480	1630	2-3/8-3 ACME-2G	0.333	1	41267.8	98440.4	108242.2	970.2	2314.3	2544.7	4.921
		12	9.843	2.750	2.417	600	1480	1630	2-3/4-3 ACME-2G	0.333	1	52242.4	125070.3	137554.5	1480.0	3542.8	3896.9	5.315
		14	11.575	2.874	2.542	600	1480	1630	2-7/8-3 ACME-2G	0.333	1	68882.7	165526.7	182091.6	2062.1	4955.3	5451.2	5.433



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 HOUSTON, TX 77020

BERIC VALVE
 STEM AND TORQUE DATA
 CLASS 900 CAST STEEL
 GLOBE VALVES

7/21/2015

TYPE	CLASS	SIZE	Dr (mm)	Ds (mm)	THREAD DESIGNATION	P1 (PSIG)	P2 (PSIG)	P3 (PSIG)	PITCH (mm)	F4-1 Kgf	F4-2 Kgf	F4-3 Kgf	T4-1 Kgf*m	T4-2 Kgf*m	T4-3 Kgf*m	LIFT (mm)
GLOBE	900	2	47	32	1.250-5 ACME-RH-2G	900	2220	2445	5.08		2634.5			9.5		
		3	72	38	1.500-45 ACME-RH-2G	900	2220	2445	6.35		3985.3			15.6		
		4	98	42	1.625-4 ACME-RH-2G	900	2220	2445	6.35		6307.8			28.7		
		6	146	54	2.125-3 ACME RH-2G	900	2220	2445	8.47		11417.6			59.2		
		8	190	63.5	2.500-3 ACME LH-2G	900	2220	2445	8.47		17834.6			103.9		
		10	238	66	2.625-3 ACME LH-2G	900	2220	2445	8.47		27494.5			190.3		
		12	282	58	3.125-2 ACME LH-2G	900	2220	2445	12.7		37421.5			282.9		

Dr:BODY SEAT DIAMETER
 P1:CLASS RATE
 F4-1:THRUST FOR P1
 T4-1:TORQUE FOR P1

Ds STEM DIAMETER
 P2:WORK PRESSURE
 F4-2:THRUST FOR P2
 T4-2 TORQUE FOR P2

ALL ITEM:SINGLE THREAD(PITCH=LEAD)
 P3:SEAT TEST PRESSURE
 F4-3:THRUST FOR P3
 T4-3:TORQUE FOR P3

TYPE	CLASS	SIZE	Dr (inch)	Ds (inch)		P1 PSIG	P2 PSIG	P3 PSIG	PITCH (inch)	F4-1 (Lbs)	F4-2 (Lbs)	F4-3 (Lbs)	T4-1 (Lbs*Ft)	T4-2 (Lbs*Ft)	T4-3 (Lbs*Ft)	LIFT (inch)
GLOBE	900	2	1.850394	1.26	1.250-5 ACME-RH-2G	900	2220	2445	0.20		5808			69		
		3	2.834646	1.50	1.500-45 ACME-RH-2G	900	2220	2445	0.25		8786			113		
		4	3.858268	1.65	1.625-4 ACME-RH-2G	900	2220	2445	0.25		13906			208		
		6	5.748031	2.13	2.125-3 ACME RH-2G	900	2220	2445	0.33		25171			429		
		8	7.480315	2.50	2.500-3 ACME LH-2G	900	2220	2445	0.33		39318			753		
		10	9.370079	2.60	2.625-3 ACME LH-2G	900	2220	2445	0.33		60614			1379		
		12	11.10236	2.28	3.125-2 ACME LH-2G	900	2220	2445	0.50		82499			2050		



BERIC VALVES

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BERIC VALVE
STEM AND TORQUE DATA
CLASS 1500 CAST STEEL
GLOBE VALVES

7/21/2015

TYPE	CLASS	SIZE	Dr (mm)	Ds (mm)	P1 (PSIG)	P2 (PSIG)	P3 (PSIG)	THREAD DESIGNATION	PITCH (mm)	F4-1 Kgf	F4-2 Kgf	F4-3 Kgf	T4-1 Kgf*m	T4-2 Kgf*m	T4-3 Kgf*m	LIFT (mm)
GLOBE	1500	2	47	26	1500	3705	4080		5.08							
		3	69	32	1500	3705	4080	1.250-5 ACME-RH-2G	5.08		6241.5			27.6		
		4	92	36	1500	3705	4080	1.375-4 ACME-RH-2G	6.35		18699.7			86.4		
		6	136	46	1500	3705	4080	1.875-4 ACME-RHDL-2G	12.7					29223.2		
		8	177	56	1500	3705	4080	2.125-3 ACME RHDL-2G	16.93			67309.7			538.2	

Dr:BODY SEAT DIAMETER

Ds STEM DIAMETER

ALL ITEM:SINGLE THREAD(PITCH=LEAD)

P1:CLASS RATE

P2:WORK PRESSURE

P3:SEAT TEST PRESSURE

F4-1:THRUST FOR P1

F4-2:THRUST FOR P2

F4-3:THRUST FOR P3

T4-1:TORQUE FOR P1

T4-2 TORQUE FOR P2

T4-3:TORQUE FOR P3

TYPE	CLASS	SIZE	Dr (inch)	Ds (inch)	P1 PSIG	P2 PSIG	P3 PSIG	THREAD DESIGNATION	PITCH (inch)	F4-1 (Lbs)	F4-2 (Lbs)	F4-3 (Lbs)	T4-1 (Lbs*Ft)	T4-2 (Lbs*Ft)	T4-3 (Lbs*Ft)	LIFT (inch)
GLOBE	1500	2	1.850394	1.02	1500	3705	4080		0.20							
		3	2.716535	1.26	1500	3705	4080	1.250-5 ACME-RH-2G	0.20		13760			200		
		4	3.622047	1.42	1500	3705	4080	1.375-4 ACME-RH-2G	0.25		41225			626		
		6	5.354331	1.81	1500	3705	4080	1.875-4 ACME-RHDL-2G	0.50			64425			1400	
		8	6.968504	2.20	1500	3705	4080	2.125-3 ACME RHDL-2G	0.67			148390			3900	