

GLAND PACKING BOLTING TORQUE CAST STEEL GLOBE & GATE VALVES

		STEM DIAMETER (Inches)																																											
		0.375	0.437	0.500	0.562	0.625	0.687	0.750	0.812	0.875	0.937	1.000	1.062	1.125	1.187	1.250	1.312	1.375	1.437	1.500	1.562	1.625	1.687	1.750	1.812	1.875	1.937	2.000	2.062	2.125	2.187	2.250	2.312	2.375	2.437	2.500									
STUD DIAMETER (Inches)	0.625	6	5	3	2																																								
	0.687	8	7	6	4	2																																							
	0.750	10	9	8	6	4	2																																						
	0.812	13	12	10	9	7	5	2																																					
	0.875	16	14	13	11	9	7	5	3																																				
	0.937	18	17	16	14	12	10	8	5	3																																			
	1.000	21	20	19	17	15	13	11	8	6	3																																		
	1.062	25	23	22	20	18	16	14	12	9	6	3																																	
	1.125	28	27	25	24	22	20	17	15	12	10	7	3																																
	1.187	32	30	29	27	25	23	21	19	16	13	10	7	4																															
	1.250	35	34	33	31	29	27	25	22	20	17	14	11	7	4																														
	1.312	39	38	37	35	33	31	29	26	24	21	18	15	11	8	4																													
	1.375	44	42	41	39	37	35	33	31	28	25	22	19	16	12	8	4																												
	1.437		47	45	44	42	40	37	35	32	30	27	23	20	16	13	9	4																											
	1.500			50	48	46	44	42	40	37	34	31	29	24	21	17	13	9	5																										
	1.562				53	51	49	47	44	42	39	36	33	29	26	22	18	14	9	5																									
	1.625				58	56	54	52	49	47	44	41	38	34	31	27	23	19	14	10	5																								
	1.687					61	59	57	54	52	49	46	43	39	36	32	28	24	19	15	10	5																							
	1.750						64	62	60	57	54	51	48	45	41	37	33	29	25	20	15	10	5																						
	1.812							68	65	63	60	57	54	50	47	43	39	35	30	26	21	16	11	6																					
	1.875								73	71	68	66	63	59	56	52	48	45	40	36	31	27	22	17	11	6																			
	1.937									77	74	72	68	65	62	58	55	51	46	42	37	33	28	23	17	12	6																		
	2.000										80	78	75	71	68	64	61	57	52	48	44	39	34	29	23	18	12	6																	
	2.062											84	81	78	74	71	67	63	59	54	50	45	40	35	30	24	18	12	6																
	2.125												90	87	84	81	77	73	69	65	61	56	52	47	41	36	31	25	19	13	7														
	2.187													94	91	88	84	80	76	72	68	63	58	53	48	43	37	32	26	20	13	7													
	2.250														98	94	91	87	83	79	75	70	65	60	55	50	44	38	33	26	20	14	7												
	2.312															102	98	94	90	86	82	77	72	67	62	57	51	46	40	34	27	21	14	7											
	2.375																109	105	101	97	93	89	84	80	75	69	64	59	53	47	41	34	28	21	14	7									
	2.437																	113	109	105	101	96	92	87	82	77	72	66	60	54	48	42	35	29	22	15	7								
	2.500																		117	113	108	104	99	95	90	85	79	74	68	62	56	50	43	36	30	22	15	8							
	2.562																				120	116	112	107	103	98	92	87	82	76	70	64	58	51	44	37	30	23	16	8					
	2.625																					129	124	120	115	111	106	101	95	90	84	78	72	66	59	52	45	38	31	24	16				
	2.687																						133	128	124	119	114	109	103	98	92	86	80	74	67	61	54	47	39	32	24				
	2.750																							137	132	127	122	117	112	106	101	95	89	82	76	69	62	55	48	40	33				
	2.812																								141	136	131	126	121	115	109	103	97	91	84	78	71	64	56	49	41				
	2.875																									150	145	140	135	129	124	118	112	106	100	93	87	80	73	65	58	50			
	2.937																											154	149	144	138	133	127	121	115	109	102	96	89	82	74	67	59		
	3.000																													158	153	148	142	136	130	124	116	112	105	98	91	84	78	68	
	3.062																															162	157	152	146	140	134	127	121	114	107	100	93	85	78
3.125																																172	167	161	155	150	143	137	131	124	117	110	103	95	87
3.187																																	177	171	165	159	153	147	140	134	127	120	112	105	97
3.250																																		181	175	169	163	157	150	144	137	130	122	115	107
3.312																																													
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Torque in Ft/Lbs per inch of bolt/stud diameter
 To estimate the stud torque required for a 3,800 psi gland load, multiply the gland stud diameter by the number shown in the table that corresponds to the stud size and stem diameter.
 Note: A 3,800 psi gland load may not be suitable for all types of packing.

