

# Trunnion Mounted Ball Valve Design Operating Torque

NPS (inch)	ANSI (class)	Stem Torque (ft.lb)	NPS (inch)	ANSI (class)	Stem Torque (ft.lb)	NPS (inch)	ANSI (class)	Stem Torque (ft.lb)
2	150	42	8	150	760	16	150	2252
2	300	68	8	300	1195	16	300	4005
2	600	110	8	600	1902	16	600	6810
2	900	160	8	900	2600	16	900	10200
2	1500	245	8	1500	4010	16	1500	16508
3	150	46	10	150	810	18	150	3425
3	300	86	10	300	1380	18	300	5925
3	600	145	10	600	2250	18	600	10033
3	900	200	10	900	3160	18	900	14112
3	1500	320	10	1500	5002	18	1500	—
4	150	120	12	150	1210	20	150	4960
4	300	200	12	300	2038	20	300	8077
4	600	343	12	600	3170	20	600	13623
4	900	482	12	900	4503	20	900	—
4	1500	768	12	1500	7000	20	1500	—
6	150	240	14	150	1806	24	150	8002
6	300	480	14	300	3150	24	300	13526
6	600	675	14	600	5350	24	600	22341
6	900	950	14	900	7533	24	900	—
6	1500	1485	14	1500	11900	24	1500	—

**Note:**

1. Torque is calculated based on normal temperature, with RPTFE seat for 150LB~600LB and DEVLON seat for 900LB~1500LB.
2. If use the PEEK seat, torque shall be increased about 1.9~2.5 times.
3. Torque shown in this table is to be used as a guide for actuator selection. A safety factor of 1.3~1.5 is recommended for actuator sizing.

Title:

**GDVAL VALVE**

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