

Specifications For Multi-Turn Bevel Gear Operators: Series BG

Definition

DYNATORQUE™ Bevel geared operators are suited for applications where valve thrust and torque have been accurately calculated. All units have been designed to withstand loads far in excess of the rated thrusts and torques. Actuators in this category are totally enclosed, weather-proof, and permanently lubricated. Units are suitable for use in all handwheel and chainwheel applications.

Construction

Unit housings, retainers, bevel gears and pinions are cast ductile iron (exception BG-4, bevel gear and pinion are 8620 steel); input shafts are carbon steel with yellow zinc coating, seals are Buna-N rubber, gaskets are impregnated styrene butadiene.

Model	Unit Wgt. Lbs.	Max. Output Torque Lb.-Ft.	Max. Thrust Lbs.	Gear Ratio	Mech. Adv.	Mounting Bolt Size and Qty.	Std. Mtg. Bolt Circle	Optional Mounting Bolt Circles
BG3	26	625	22,000	3:1	2.55	(4)5/8-11	5.512	3/8-16(4.016)-5/8-11(6.000)
BG34	60	625	22,000	12:1	8.16	(4)5/8-11	5.512	3/8-16(4.016)-5/8-11(6.000)
BG4	83	1,600	30,000	4:1	3.4	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG42	83	1,600	30,000	8:1	6.12	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG44	115	1,600	30,000	16:1	10.88	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG46	119	1,600	30,000	24:1	16.32	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG424	117	1,600	30,000	32:1	19.58	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG426	117	1,600	30,000	48:1	29.38	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG4GT	83	2,300	80,000	4:1	3.4	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG42GT	83	2,300	80,000	8:1	6.12	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG44GT	115	2,300	80,000	16:1	10.88	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG46GT	119	2,300	80,000	24:1	16.32	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG424GT	117	2,300	80,000	32:1	19.58	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG426GT	117	2,300	80,000	48:1	29.38	(8)1/2-13	7.625	3/8-16(6.875)-5/8-11(10.180)
BG6	210	3,500	150,000	6:1	5.1	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)
BG62	212	3,500	150,000	12:1	9.18	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)
BG64	242	3,500	150,000	24:1	16.32	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)
BG66	242	3,500	150,000	36:1	24.48	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)
BG624	245	3,500	150,000	48:1	29.38	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)
BG626	245	3,500	150,000	72:1	44.11	(8)3/4-10	11.732	5/8-11(10.00)-1 1/8-7(14.02)

Model	Output Drive Bolt Size and Qty.	Output Drive Bolt Circle	Stem Clearance Through Unit	Max. Stem in Style C Nut	Min. Stem in Style C Nut
BG3 Series	(6)5/16-18	2.844"	2.00"	1.75"	.500"
BG4 Series	(8)1/2-13	4.500"	3.11"	2.50"	.750"
BG6 Series	(16)1/2-13	6.960"	5.31"	4.38"	2.00"

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