

MULTI-TURN BEVEL GEAR BOXES (BGS- Series)

The 'BGS' series Multi- Turn Bevel Gear Boxes are used to operate Gate, Globe & Sluice Valves. Each Model is suitable for Manual & Electric operation

PRODUCT DESCRIPTION:

- ◆ Gear Boxes are Robust Construction & Compact Design.
- ◆ Meeting QUALITY, PERFORMANCE and DELIVERY.
- ◆ Torque range from 150 Nm to 8000 Nm.
- ◆ Output Travel – 360 deg
- ◆ Standard Version : Clockwise Input = Clockwise Output
- ◆ IP-54 Enclosure
- ◆ Working Temperature -20°C to +120°C
- ◆ Graded Ductile Iron Housing, Mounting Base (SGI 450/10) and Drive Sleeve (SGI600/3).
- ◆ High Tensile Fasteners
- ◆ High performance Bearings.
- ◆ Sturdy Hand wheel with Black Powder coating for Easy and Smooth Operation.
- ◆ Red oxide Primer as Standard
- ◆ Gear Boxes lubricated with Multi-purpose Grease
- ◆ Gear Box Mounting as per ISO 5210 Std.
- ◆ Removable Drive Sleeve

FEATURES

- ◆ Housing, Mounting Base and material also available in Carbon Steel/Stainless Steel.
- ◆ Pinion shaft (Input shaft) is also available in Stainless Steel.
- ◆ Drive sleeve materials is also available in Aluminium Bronze (AB1/AB2) /Ni-resist (D2 Gr.)/as required as optional.
- ◆ Fasteners and Hand wheel also available in Stainless Steel as optional.
- ◆ Grease Nipple, Padlock Arrangement and Chain Wheel Arrangement also available as optional.
- ◆ Buried Service purpose Gear Boxes with Extension Shaft Arrangement also available.
- ◆ IP-68 Enclosure available against requirement.
- ◆ Gear Boxes for Low Temperature and High Temperature applications also available.

TESTING FACILITIES:

- ◆ Test Rig to measure the Performance Factor (P.F)
- ◆ Thrust Measurement

PERFECT ACTUATORS & CONTROLS PVT. LTD.

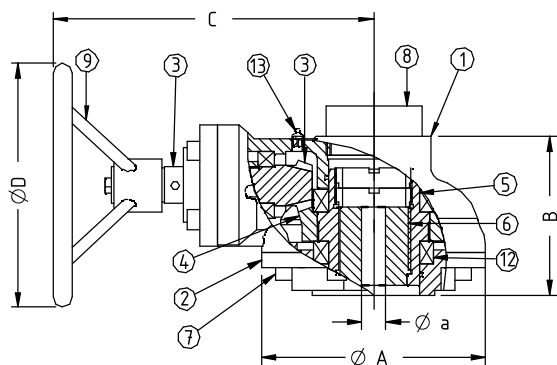
(An ISO 9001 : 2015 Certified Company)

B-137/493, INDUSTRIAL ESTATE, GOKUL ROAD. HUBLI - 580 030. INDIA

PHONE : 0836 - 2335971, 2210619. FAX : (0836) 2331698

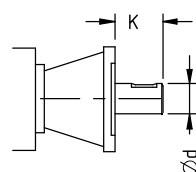
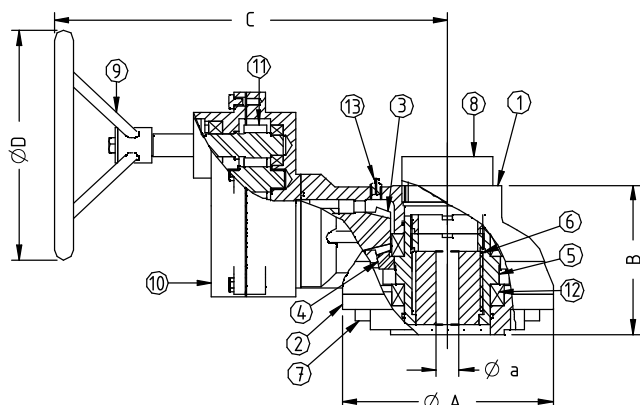
E-Mail : sales@pacplindia.com, info@pacplindia.com. Website : www.pacplindia.com

a) Standard Gear Box



Sl. no	Description	Material
1	Housing	SGI 450/10
2	Mounting flange	SGI 450/10
3	Pinion shaft	EN-19
4	Bevel wheel	EN-19
5	Stem nut	SGI 500/7
6	* Drive sleeve	SGI 600/3
7	Fasteners	8.8 Gr.
8	Stem tube	E.R.W STEEL PIPE
9	Handwheel	MS Fab.
10	SG Casing	SGI 450/10
11	SG Gears	EN-8
12	Ball thrust bearing	Alloy Steel
13	Grease Nipple	MS
14	Grease	Multipurpose

b) Gear Box with Secondary Gear Attachment



For Electrical Operation (Optional)

* Material optional as required
Ød - pilot bore

- Note - a) Clockwise input rotation gives clockwise output rotation.
b) For gear boxes to be operated with Electrical actuator, De-rate the standard gear box output torque by 15%.
c) Input shaft keyway as per IS:2048
d) All dimension are in mm, and indicative.

MODEL	TOTAL REDUCTION RATIO	PF ±10%	MAX. OUTPUT TORQUE	MAX. THRUST	MAX. STEM DIA WITH THREADING mm	MAX. STEM DIA WITH KEYWAY mm	MOUNTING BASE AS PER ISO:5210	ELE. ACTUATOR MOUNTING BASE AS PER ISO:5210	HANDWHEEL ØD mm	Approx wt.	Ø A	B	C	Ø a	K	Ød
			Nm	KN						(Kg)						
BGS-01	2 : 1	1.8	150	50	25	18	F10	F10-F14	300	10.5	148	123	185	12	45	24
BGS-02	2.75 : 1	2.4	250	75	30	25	F10	F10-F14	300	12	166	121	20	12	45	24
BGS-03	3 : 1	2.7	400	90	40	32	F12	F10-F14	400	13	166	119	198	12	45	24
BGS-04	3.5 : 1	3.2	600	125	45	40	F14	F10-F14	500	16	184	130	21	16	48	30
BGS-04A	4 : 1	3.6	1100	190	52	44	F16	F10-F14	500	21	210	140	218	16	48	30
BGS-05	4.5 : 1	4	1800	190	60	55	F16	F14	600	27	218	148	22	20	48	30
BGS-05A	5 : 1	4.5	2500	250	70	65	F25	F14	700	51	300	168	25	20	48	30
BGS-06	5.5 : 1	4.9	3500	400	90	85	F30	F14-F16	800	73	350	203	30	20	48	30
BGS-06A	6 : 1	5.3	5200	400	95	90	F30	F14-F16	800	87	366	195	32	25	55	30
BGS-07	6.5 : 1	6	8000	520	115	100	F35	F14-F16	800	133	475	242	34	25	60	35
BGS-04ASGS	8 : 1	6.3	1100	190	52	44	F16	F10	500	29	210	140	30	16	30	20
BGS-05SGS	11.25 : 1	8.8	1800	190	60	55	F16	F10	500	40	218	148	32	20	30	20
BGS-05ASGS	12.5 : 1	9.9	2500	250	70	65	F25	F10	500	57	300	168	33	20	30	20
BGS-06SGPS	22 : 1	16.7	3500	400	90	85	F30	F10-F14	600	81	350	203	37	20	37	24
BGS-06ASGPS	24 : 1	18.7	5200	400	95	90	F30	F10-F14	600	95	366	195	38	25	37	24
BGS-07SGS	26 : 1	20	8000	520	115	100	F35	F14-F16	700	152	475	242	47	25	37	30
	58.5 : 1	49	8000	520	115	100	F35	F14-F16	700	152	475	242	47	25	37	30