



## 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 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 & ISO 45001 : 2018 Certified Company)

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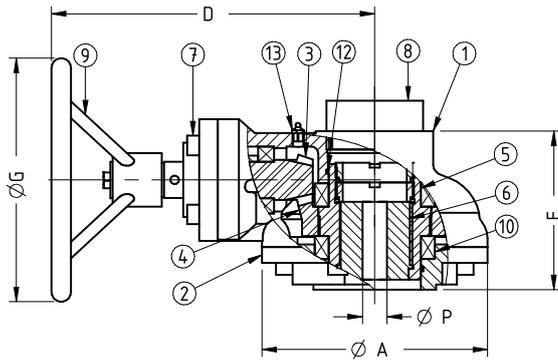
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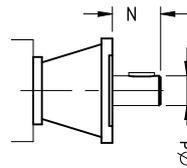
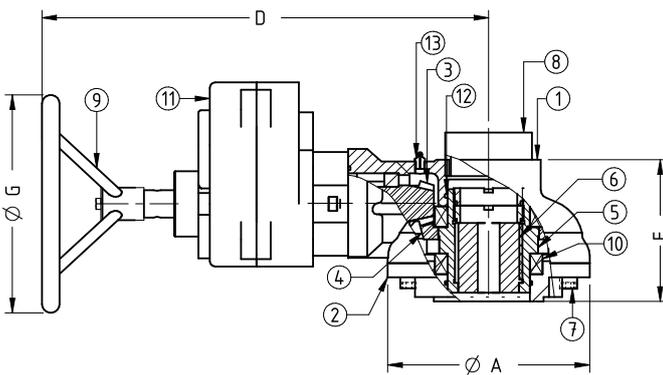


## a) Standard Gear Box



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	Ball thrust bearing	Alloy Steel
11	Spur Gear Unit	SGI 450/10
12	O-Ring	Nitrile
13	Grease Nipple	MS
14	Grease	Multipurpose

## b) Gear Box with Secondary Gear Attachment



For Electrical Operation (Optional)

\* Material optional as required  
 ØP - Pilot bore  
 IP Enclosure - IP-54

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 dimensions are in mm and indicative.

MODEL	RATIO	PERFORMANCE FACTOR ±10%	OUTPUT TORQUE ( Nm )	THRUST ( KN )	STEM DIA WITH THREADING ( mm )	STEM DIA WITH KEYWAY ( mm )	MOUNTING BASE AS PER ISO:5210	ELE. ACTUATOR MOUNTING BASE AS PER ISO:5210	HAND WHEEL ØG (mm)	Approx Weight ( Kg )	Ø A	D	F	Ø P	N	Ød
			Max.	Max.	Max.	Max.										
BGS-01	2 : 1	1.8	150	50	25	18	F10	F10-F14	300	10.5	148	251	123	12	45	24
BGS-02	2.75 : 1	2.4	250	75	30	25	F10	F10-F14	300	12	166	255	121			
BGS-03	3 : 1	2.7	400	90	40	32	F12	F10-F14	400	13	166	245	119			
BGS-04	3.5 : 1	3.2	600	125	45	40	F14	F10-F14	500	16	184	279	130	16	48	30
BGS-04A	4 : 1	3.6	1100	190	52	44	F16	F10-F14	500	21	210	289	140			
BGS-05	4.5 : 1	4	1800	190/250	60	55	F16-F25	F14	600	27	218	365	148	20	55	35
BGS-05A	5 : 1	4.5	2500	190/250	70	65	F16-F25	F14	700	51	300	415	168			
BGS-06	5.5 : 1	4.9	3500	250/400	90	85	F25-F30	F14-F16	800	73	350	450	203	25	60	35
BGS-06A	6 : 1	5.3	5200	400	95	90	F30	F14-F16	800	87	366	470	195			
BGS-07	6.5 : 1	6	8000	520	115	100	F35	F14-F16	800	133	475	530	242	20	30	24
BGS-05SGPS41	18:1	15.5	1800	190/250	60	55	F16-F25	F10	500	40	218	436	148			
BGS-05ASGPS41	20:1	17	2500	190/250	70	65	F16-F25	F10	500	57	300	468	168	25	37	30
BGS-06SGPS41	22 : 1	16.7	3500	250/400	90	85	F25-F30	F10-F14	600	81	350	537	203			
BGS-06ASGPS41	24 : 1	18.7	5200	400	95	90	F30	F10-F14	600	95	366	550	195	25	37	30
BGS-07SGS	26 : 1	20	8000	520	115	100	F35	F14-F16	700	152	475	595	242			
	58.5 : 1	49	8000	520	115	100	F35	F14-F16	700							

### Important Note:

- 1) We have endeavoured in this publication to make the content as accurate as possible, being given as general information. It is not taken as binding unless specifically confirmed in writing.
- 2) Due to PAC's continual commitment to engineering, Product specifications and data presented in this publication are subject to change without prior notice.