

HOB Series

Bevel Gearbox

rotork[®]
Gears



Hob Series Hand Operated Bevel Gearbox

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HOB Series

Hand Operated Bevel Gearbox

Description

Cost effectively designed for manual applications, the HOB bevel gear operators are for use on gate valves, globe valves and penstocks.

Quality Design

The HOB gear operators are manufactured from high quality materials and life tested ensuring that maximum performance, quality and reliability are consistently maintained.

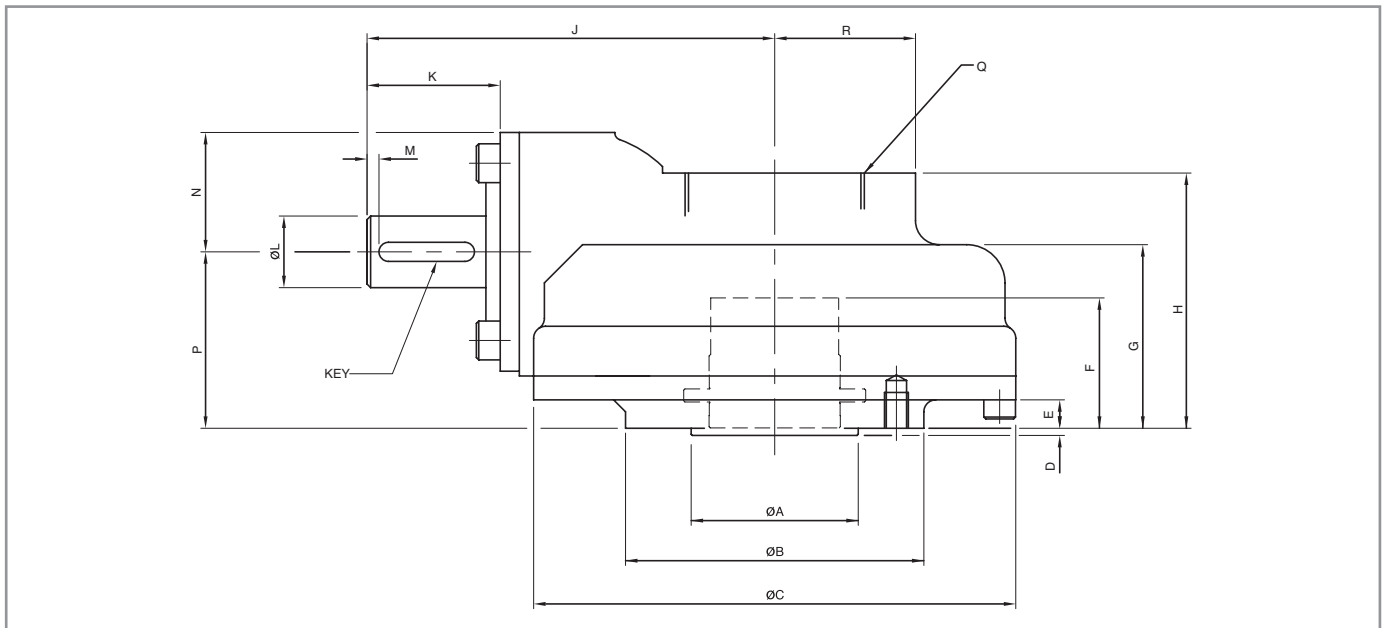
Features

- Carefully chosen ratios to meet manual rim effort requirements
- Totally enclosed gearing
- Cast iron gearcase
- Ductile iron baseplate
- Grease filled for life
- Maintenance free
- Sealed to IP67
- Zinc plated fasteners
- Optional Flexible Extensions
- Primed finish
- Optional Stainless Steel input shaft (improved sealing to IP68)
- Optional coating for aggressive environments
- Optional position indicators



Established Leaders in Actuation Technology

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Dimensions

Gearbox	HOB210	HOB410	HOB414 FA14	HOB414 FA16	HOB616
Key	0.315" x 0.276" x 1.575"				
ØB	4.92"	4.92"	6.89"	7.95"	8.27"
ØC	7.95"	7.95"	7.95"	7.95"	10.24"
D	0.12"	0.12"	0.16"	0.20"	0.20"
E	0.47"	0.47"	1.38"	1.38"	2.09"
F	2.17"	2.17"	3.07"	3.07"	3.82"
G	3.03"	3.03"	3.98"	3.98"	4.72"
H	4.21"	4.21"	5.12"	5.12"	6.26"
R	1.97"	1.97"	1.97"	1.97"	2.46"
J	8.98"	8.98"	8.98"	8.98"	9.88"
K	4.45"	4.45"	4.45"	4.45"	4.45"
ØL	1.18"	1.18"	1.18"	1.18"	1.18"
M	0.20"	0.20"	0.20"	0.20"	0.20"
N	1.97"	1.97"	1.97"	1.97"	1.97"
P	2.91"	2.91"	3.82"	3.82"	4.72"
Q	2.5" NPT				3.5" NPT

Material Specification

Description	Material	USA Standard
Gearcase & End Cap	Cast Iron	ASTM A48 35B/40B
Baseplate	Ductile Iron	ASTM A356 65-45-12
Output Gear	Ductile Iron	ASTM A356 100-70-3
Input Gear	Steel	AISI/SAE 4340
Drive Sleeve A1	Steel	AISI/SAE 1023
Drive Sleeve A2	Aluminium Bronze	ASTM B505 C95800
Fixing Screws	HT Steel Metric	
O Ring Seals	Nitrile	
Thrust Bearings	Needle Roller Bearings	
Grease	Renolit CL-X2	

Baseplate details

Type	MSS SP-102	ØA (inch)	Hole Details (45° Off Centres)
HOB210/410	FA10	Ø2.312-0.002	4 x 3/8" UNC x 0.59 DEEP ON Ø4.00 PC
HOB414	FA14	Ø3.750-0.002	4 x 5/8" UNC x 0.79 DEEP ON Ø5.50 PC
	FA16	Ø5.000-0.002	4 x 3/4" UNC x 0.98 DEEP ON Ø6.50 PC
HOB616	FA16	Ø5.000-0.002	4 x 3/4" UNC x 0.98 DEEP ON Ø6.50 PC

Performance Specification

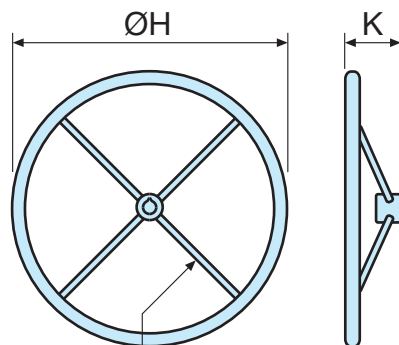
Type	Ratio	Output Torque (ft-lb)	Mechanical Advantage	Thrust (lb x 1000)	Stem Acc. (inch)		Temp. Range (°F)	Output Flange	Weight (lb)
					Keyed	Screwed			
HOB210	2:1	332	1.7	12	1.575	1.772	-40 to +250	FA10	29
HOB410	4:1	516	3	12	1.575	1.772	-40 to +250	FA10	29
HOB414	4:1	516	3	40	2.047	2.165	-40 to +250	FA14	37
								FA16	53
HOB616	6:1	999	5.1	80	2.677	2.874	-40 to +250	FA16	77

All dimensions in inches. Note: Mechanical advantage figures given are +/- 5%

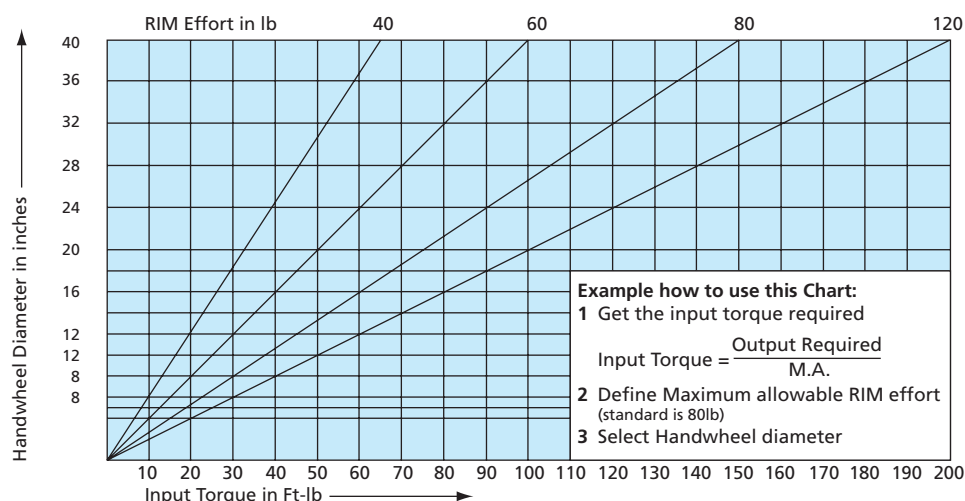
Dimensions

Type	øH	K	N
F200	8	2.97	3
F300	12	3.96	3
F400	16	3.96	4
F500	20	3.96	4
F600	24	3.96	4
F700	28	3.96	6
F800	32	3.96	6
F900	36	3.96	6
F1000	40	3.96	6
F1100	44	3.96	6
F1200	48	3.96	8

Handwheel Selection Chart



'F' Type handwheel



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