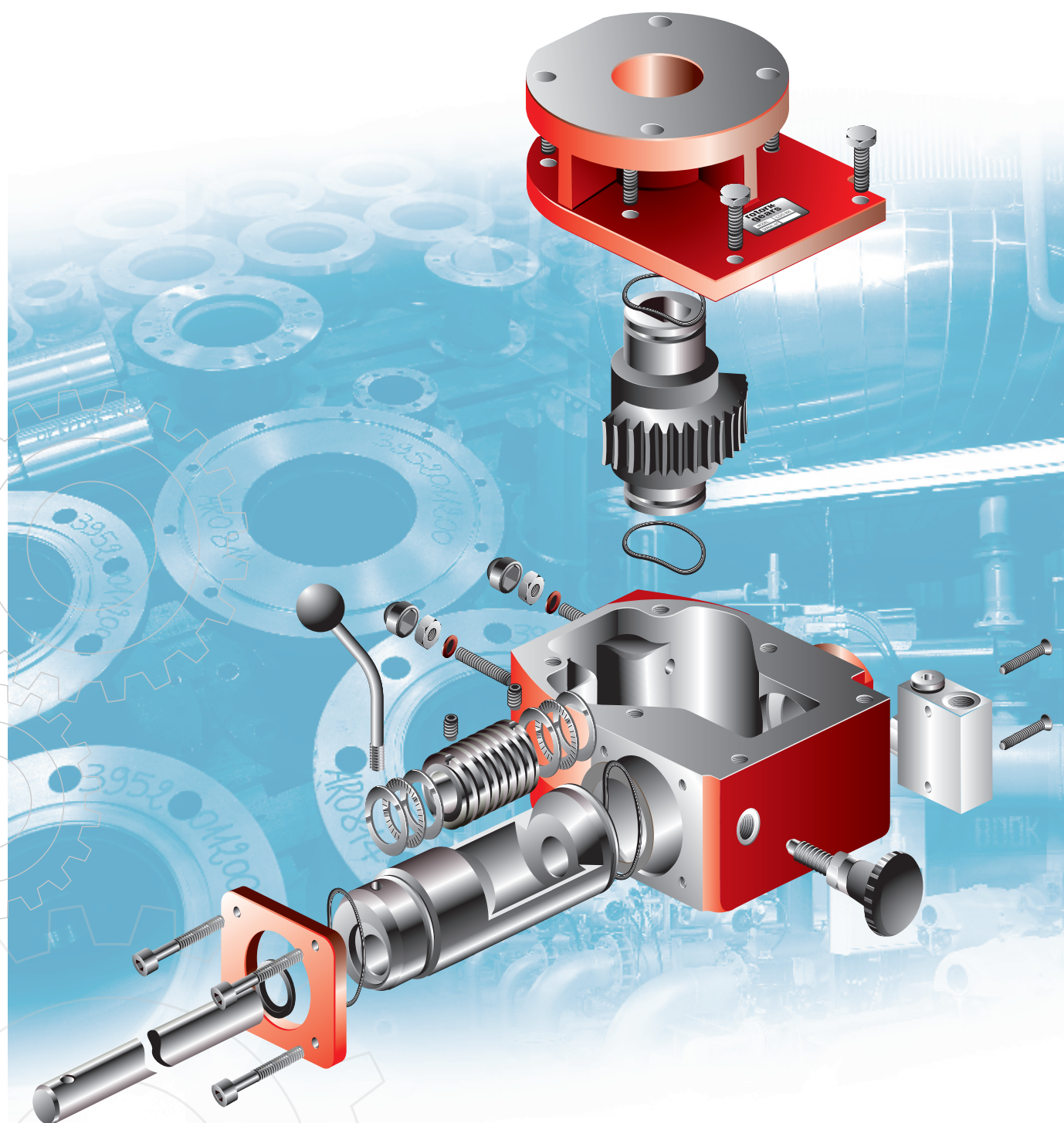


ILG-D Series

Gear Operators

rotork[®]
Gears



Cast Iron Housing Declutchable Gear Operators – ILG-D Series

Publication RG610E
Issue 07/10

ILG-D Series

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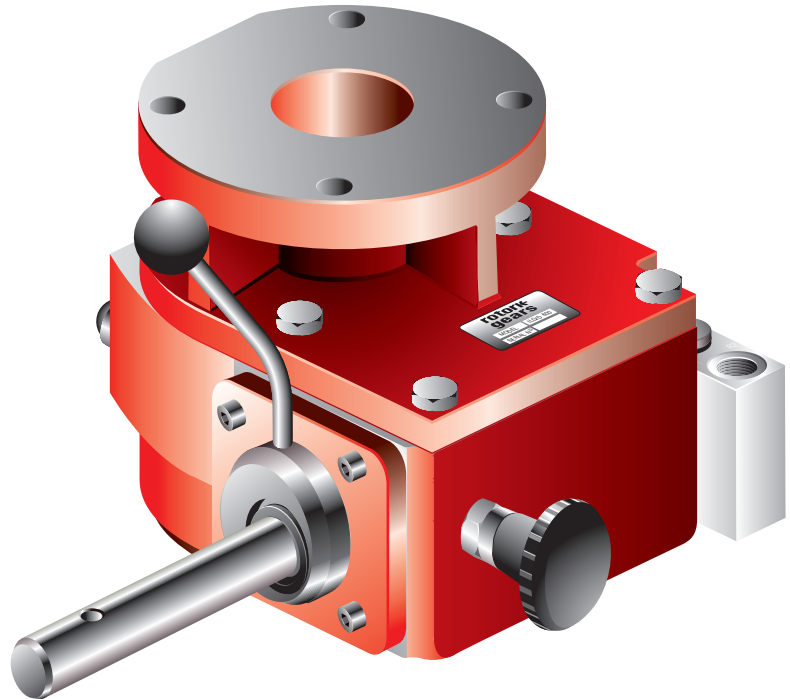
Description

The Rotork Gears ILG-D gear operators are designed to provide a means of manually overriding pneumatic valve actuators in power and process applications. These gear operators employ a declutchable design for use with double acting actuators. To ensure long life, the housing is sealed to IP65 and the input shaft is made from Protected Steel.

Application

The Rotork Gears series ILG-D operators are used in all industries where reliable manual operation of double acting actuators is required. All units mount between the valve and actuator and may be supplied with an ISO drive shaft.

As an option, a 3/2 spool valve can be fitted, to automatically evacuate air from the actuator when the manual override lever is engaged.



Features

- Protected input shaft
- Cast iron housing
- Rugged construction
- Axial needle bearings
- Sealed to IP65
- Polyurethane coating
- Integral top flange (ISO drive coupling available if required)

Options

- 3/2 Relief valve
- Stainless Steel input shafts
- IP67 & IP68 enclosure (without 3/2 Relief valve)
- High and Low temperature ranges
- Marineised Duty
- Flexible Extensions

Performance Specification

- Stroke: 0 - 90° (±5° adjustable)
- Enclosure: Sealed to IP65
- No. of Models: 9
- Torque Range: 1330 to 150460 lbf.in
- Temperature: -4 to +250 °F

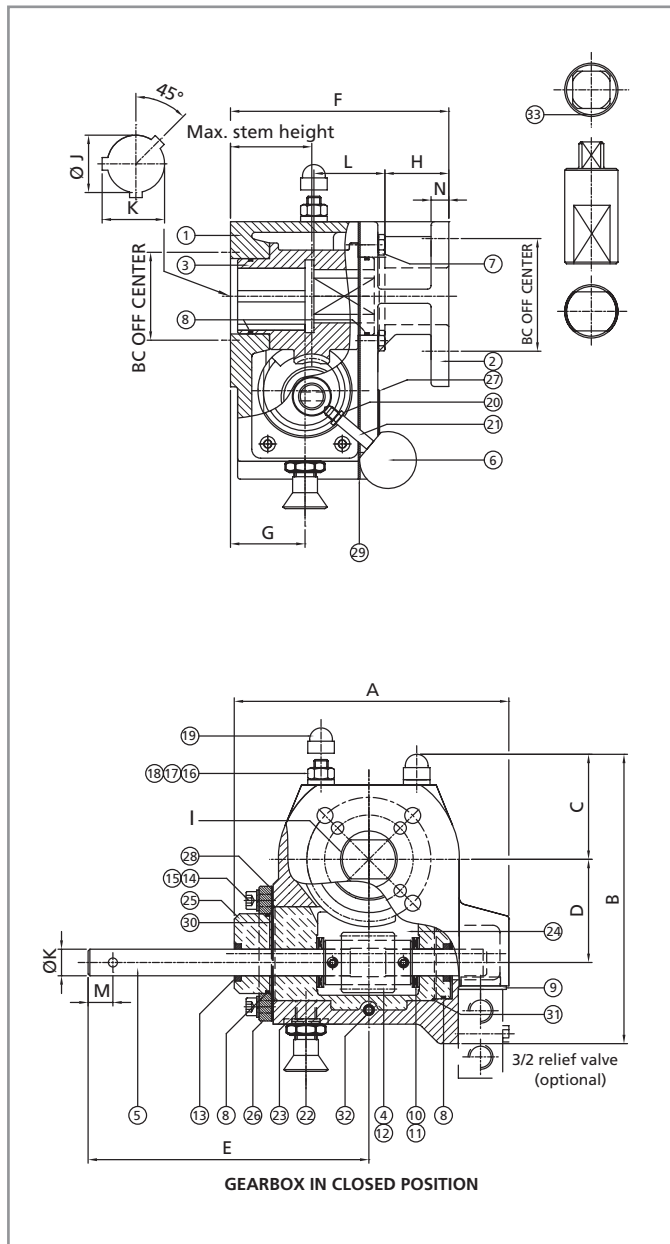
Type	Ratio	Torque (lbf. inch)		M.A. ± 15%	Weight (lb)
		Output	Input		
*ILG-D 100	40:1	1330	115	11	24.3
ILG-D 200	35:1	2210	230	9.5	16.2
ILG-D 600	46:1	6640	530	12.4	37.4
ILG-D 900	43:1	1105	1108	11.6	46.2
ILG-D 1500	57:1	22000	1420	15.4	74.8
ILG-D 2400	68:1	30000	1665	18.0	118.8
ILG-D 5000	104:1	66000	2640	25.0	176.0
*ILG-D 8000 PR3	312:1	72000	1062	68	200
*ILG-D 16000	468:1	150460	1240	121	200

Note: Because of the company's policy of continuous improvement, Rotork Gears reserves the right to change specification details without prior notice.

*Coming soon - for more details please contact Rotork Gears.

Established Leaders in Actuation Technology

Gearbox ILG-D Series



Material Specification

No.	Description	Material	Notes
1	Body	Cast Iron	GG25 / ASTM A48-40
2	Coverplate	Cast Iron	GG25 / ASTM A48-40
3	Quadrant	Ductile Iron	GGG40 / ASTM D60-40-18
4	Worm	Carbon Steel	C45 / AISI 1045
5	Shaft	Protected Steel	-
6	Ball knob	Plastic	PF/ Fs 31
7	Hex head bolt	Steel	8.8 / DIN 933
8	O-ring	NBR	70
9	Blanking plug	Id-Polyethylene	-
10	Needle bearing	Hardened Steel	-
11	Bearing disk	100 Cr 6	-
12	Set screw	Steel	12.9 / DIN 915
13	Oil-seal	NBR	70
14	Hex socket head cap screw	Steel	8.8 / DIN 912
15	Spring lock washers	Steel zinc plated	DIN 125A
16	Set screw	Steel	8.8 / DIN 916
17	Hex nut	Steel zinc plated	DIN 934
18	Retaining ring	Polyamide	-
19	Nut protection cap	LDPE	-
20	Hex nut	Stainless Steel	DIN 439B
21	Stud	Stainless Steel	DIN 938
22	Latchbolt + nut	Stainless Steel / Plastic	-
23	Copper ring	Copper	DIN 7603A
24	EP2 grease	-	-
25	Eccentric rack	Cast Iron	GG25 / ASTM A48-40
26	Rackholder plate	Cast Iron	GG25 / ASTM A48-40
27	Label	Polyester	-
28	Gasket rackholder	NBR	65° Shore
29	Gasket coverplate	Liquid Seal	-
30	Thust bearing front	PTFE	-
31	Thust bearing back	PTFE	-
32	Spring type straight pin	Spring Steel	DIN 1481
33	Coupling	42CrMo4/42CrMo	-

NOTE: Ductile Iron housing is optional.

Type	Max. bore		Max. stem height
ILG-D 200	0.79	0.67	1.77
ILG-D 600	1.18	1.06	2.28
ILG-D 900	1.57	1.34	2.60
ILG-D 1500	1.73	1.42	2.80
ILG-D 2400	2.20	1.81	3.62
ILG-D 5000	2.76	2.17	4.45

Type	A	B	C	D	E	F	G	ØK	M	N	Valve Connection BC acc. ISO 5211	Act. Connection
ILG-D 200	6.116	6.52	2.41	2.10	6.24	4.82	1.66	0.59	0.55	0.40	FA05/FA07	FA05/FA07
ILG-D 600	7.64	9.02	3.74	2.55	7.49	5.73	2.02	0.59	0.55	0.47	FA07/FA10/FA12	FA07/FA10/FA12
ILG-D 900	8.78	9.31	3.54	3.33	7.48	6.30	2.22	0.79	0.94	0.51	FA10/FA12/FA14	FA10/FA12/FA14
ILG-D 1500	9.84	11.26	4.67	4.23	9.16	6.89	2.17	0.79	0.94	0.79	FA10/FA12/FA14/FA16	FA12/FA14/FA16
ILG-D 2400	11.02	12.87	4.84	5.00	9.61	7.64	2.44	0.98	1.10	0.59	FA12/FA14/FA16	FA14/FA16
ILG-D 5000	13.58	15.20	5.91	6.10	10.85	8.23	2.83	0.98	1.10	0.59	FA16/FA25	FA16/FA25

Type	H	I (prep. for coupling)	J (prep. for insert)	K	L (max)	Max Quadrant Bore*
ILG-D 200	1.61	DD 0.87 x 1.18	Ø1.27 key 0.25	1.40	1.34	[I]24
ILG-D 600	1.11	DD 0.98 x 1.38	Ø1.78 key 0.39	1.91	2.24	[I]36
ILG-D 900	1.06	DD 1.38 x 1.97	Ø2.13 key 0.63	2.30	2.52	[I]46
ILG-D 1500	1.02	DD 1.77 x 2.32	Ø2.36 key 0.71	2.54	2.83	[I]50
ILG-D 2400	1.2	DD 1.97 x 2.91	Ø2.95 key 0.87	3.15	2.48	[I]60
ILG-D 5000	0.51	DD 2.36 x 3.15	Ø3.54 key 1.26	3.83	2.95	[I]75

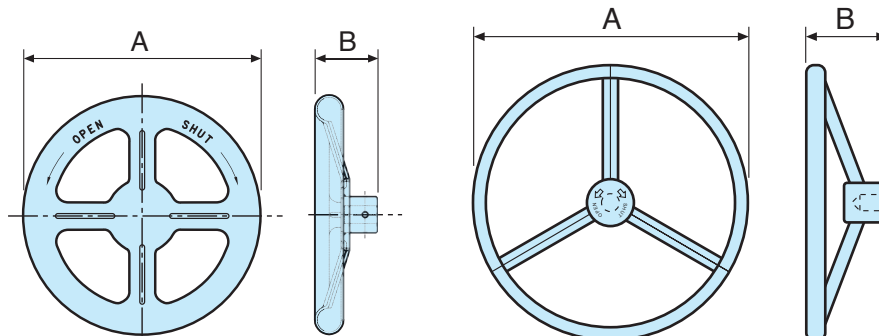
All dimensions in inches. *The optional max. valve bores (into the quadrant without insert).
ILGD 100, ILGD 8000 PR3 and ILGD 16000 details available on request.

Handwheel Selection Chart

Input Torque

Type	M.A. ± 10%
*ILG-D 100	11
ILG-D 200	9.5
ILG-D 600	12.4
ILG-D 900	11.6
ILG-D 1500	15.4
ILG-D 2400	18
ILG-D 5000	25.0
*ILG-D 8000 PR3	68
*ILG-D 16000	121

*Coming soon - for more details please contact Rotork Gears.



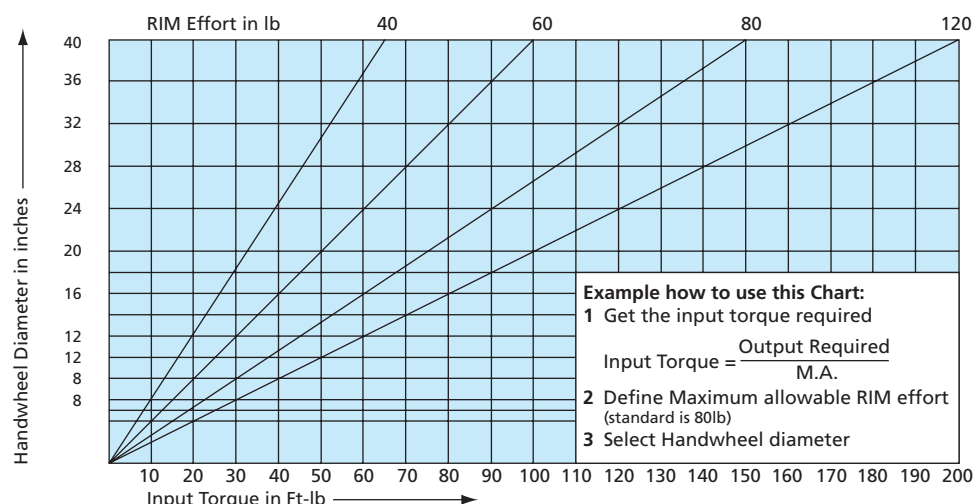
PS series handwheel

SG series handwheel

Dimensions

Type	A	B
PS100-12	Ø4"	1,38"
PS125-12	Ø5"	1,34"
PS125-15		1,89"
PS160-12	Ø6"	1,89"
PS160-15		1,93"
PS200-12	Ø8"	2,00"
PS200-15		2,05"
PS200-20		2,48"
PS250-12	Ø10"	2,48"
PS250-15		2,48"
PS250-20		2,76"

Type	A	B
SG200	Ø8"	3,15"
SG250	Ø10"	4,33"
SG300	Ø12"	4,53"
SG400	Ø16"	5,12"
SG500	Ø20"	5,91"
SG600	Ø24"	5,91"
SG700	Ø28"	5,91"
SG800	Ø32"	5,91"
SG900	Ø36"	6,30"
SG1000	Ø40"	6,30"



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