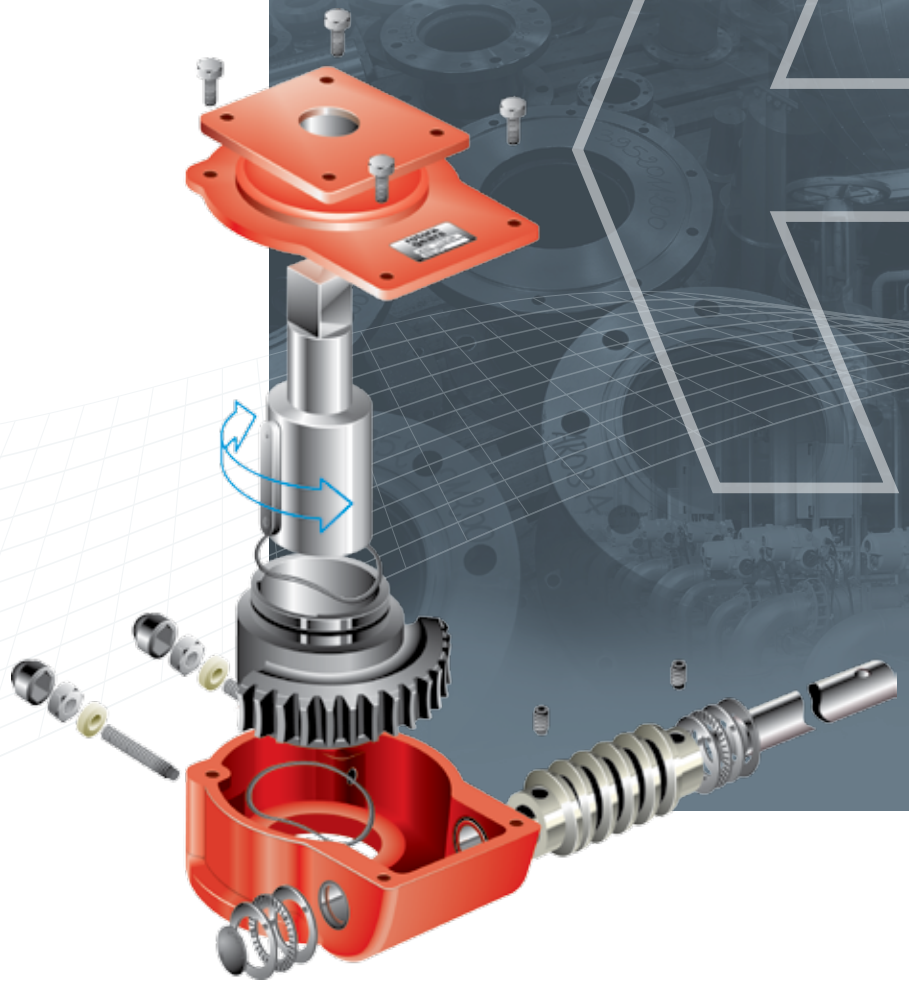




ILG-S Series

Cast Iron Housing Manual
Override Gear Operators



ILG-S Series Gear Operators

The Rotork Gears Series 'ILG-S' gear operators are designed to provide a means of manually overriding pneumatic valve actuators in power and process applications. ILG-S are used for spring-return actuators only. This design features a 90° slotted key drive and does not utilize a disengagement mechanism.

Application

The Rotork Gears series 'ILG-S' operators are used in all industries where reliable manual operation of pneumatic spring-return actuators is required. All units mount between the valve and actuator and can be supplied with an ISO drive shaft.

Features

- Protected input shaft
- Cast iron housing
- Rugged construction
- Axial needle bearings
- Light weight
- Integral top flange and coupling piece

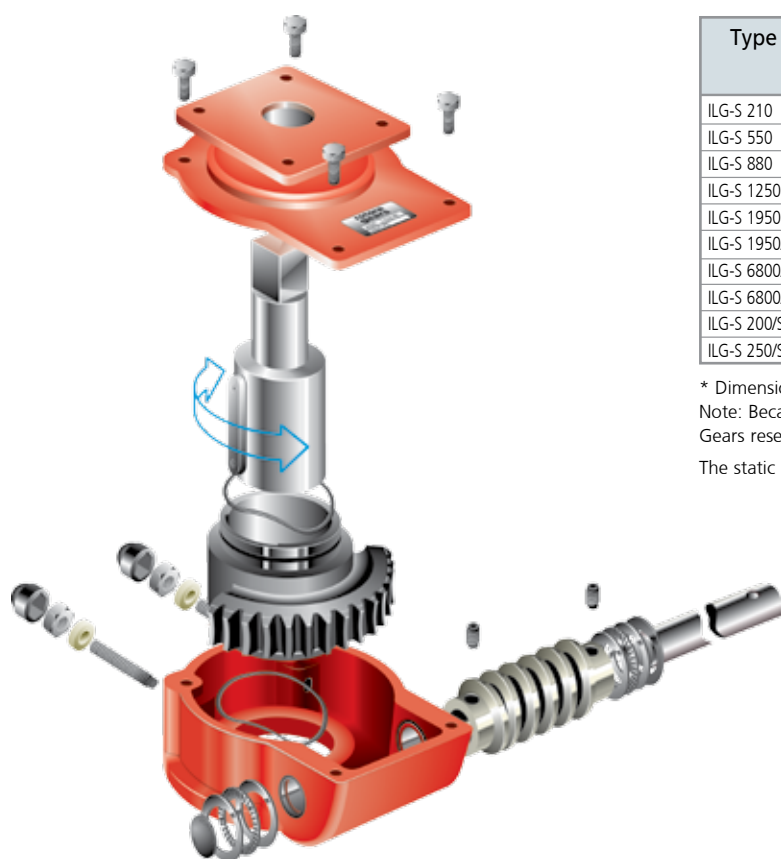
Options

- IP68 Enclosure
- Stainless Steel input shafts
- High and low temperature ranges
- Padlock Flange
- Flexible Extensions

Performance Specification

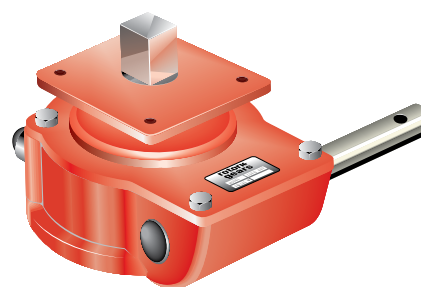
- Stroke: 0 - 90°
(± 5° adjustable)
- Enclosure: Sealed to IP65
Other enclosures are available on request.
- No. of Models: 10
- Torque Range:
2.900 to 283.520 lbf.in
- Temperature:
-4 to +250 °F

Redefining Flow Control



Type	Ratio	Torque lbf. inch		M.A. ± 15%	Weight lb
		Output	Input		
ILG-S 210	37 : 1	2920	250	11.6	11/*15
ILG-S 550	34 : 1	8270	686	12	22/*29
ILG-S 880	38 : 1	14350	1100	13.2	31/*37
ILG-S 1250	55 : 1	23380	1230	19	48/*61
ILG-S 1950	52 : 1	27020	1418	19	77/*105
ILG-S 1950/SP4	211 : 1	60180	912	66	99/*127
ILG-S 6800/SP4	325 : 1	110634	1182	93.6	185/*252
ILG-S 6800/SP6	480 : 1	150620	958	157	209/*276
ILG-S 200/SP9	592 : 1	230119	1466	157	346
ILG-S 250/SP9	707 : 1	283224	1259	225	518

* Dimensions if large base housing is used. More ratios are available.
Note: Because of the company's policy of continuous improvement, Rotork Gears reserves the right to change specification details without prior notice.
The static safety factor is 1.5.



Material specification for Rotork ILG-S Series Gear Operators

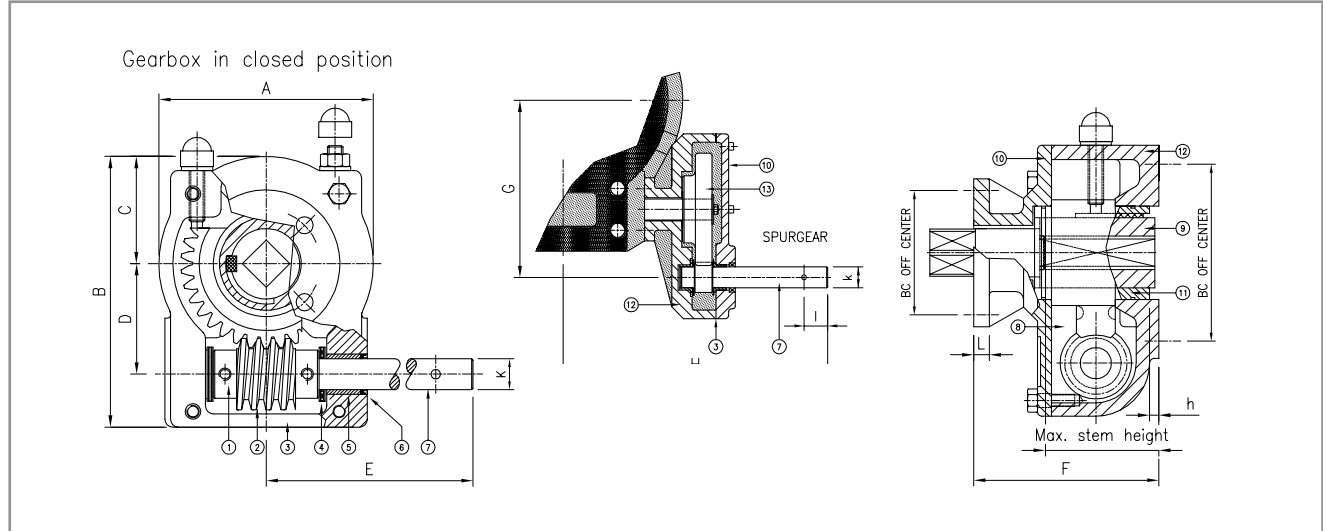
No.	Description	Material	Notes
1	Worm screw	Steel	12.9 / DIN 915
2	Worm	Carbon steel	C45 / AISI 1045
3	Gasket	Liquid Seal	-
4	Needle bearing	AXK-AS	Hardened steel
5	Bushing	P10	PAP
6	Oil-seal	NBR 70	-
7	Shaft	Protected Steel	-
8	Grease	Renolit CLX2	-
9	Coupling	9SMn28K / St52.3	-
10	Coverplate	Cast Iron	ASTM A48-40
11	Quadrant	Ductile Iron	ASTM D60-40-18
12	Body	Cast Iron	ASTM A48-40
13	Gear	Carbon steel	C45 / AISI 1045

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

ILG-S Series

Cast Iron Housing Manual Override Gear Operators

Gearbox ILG-S Series



Type	Act. Connection	Max. bore
ILG-S 210	Ø0.94	[Ø0.75
ILG-S 550	Ø1.42	[Ø1.06
ILG-S 880	Ø1.97	[Ø1.42
ILG-S 1250	Ø2.36	[Ø1.81
ILG-S 1950	Ø3.07	[Ø2.16
ILG-S 1950/SP4	Ø3.07	[Ø2.16
ILG-S 6800/SP4	Ø3.94	[Ø2.95
ILG-S 6800/SP6	Ø3.94	[Ø2.95
ILG-S 200/SP9	Ø5.91	[Ø3.94
ILG-S 250/SP9	Ø5.91	[Ø3.94

Type	Valve Connection	Max. bore	Max. stem height
ILG-S 210	Ø0.79	[Ø0.67	1.34
ILG-S 550	Ø1.26	[Ø1.06	1.97
ILG-S 880	Ø1.57	[Ø1.26	2.68
ILG-S 1250	Ø1.77	[Ø1.42	3.11
ILG-S 1950	Ø2.28	[Ø1.81	4.09
ILG-S 1950/SP4	Ø2.28	[Ø1.81	4.09
ILG-S 6800/SP4	Ø2.56	[Ø2.17	4.61
ILG-S 6800/SP6	Ø2.56	[Ø2.17	4.61
ILG-S 200/SP9	Ø5.12	[Ø3.54	5.91
ILG-S 250/SP9	Ø5.12	[Ø3.54	5.91

Couplings are retained on the stem shaft not in the gearbox, please specify if required.

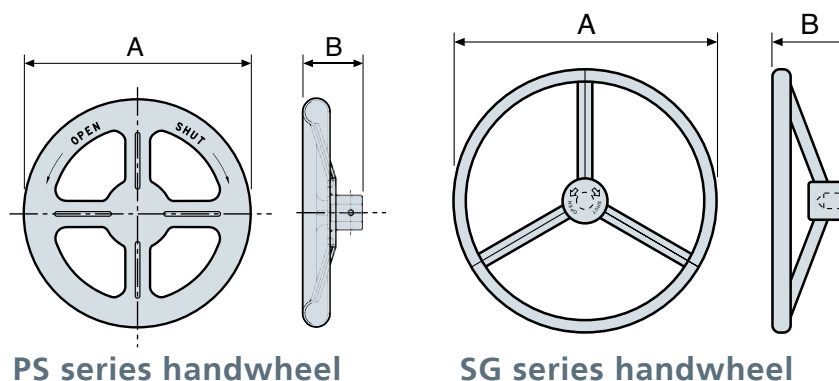
Type	A	B	C	D	E	F	G	H	h	I	øk	L	Valve Connection	Act. Connection
ILG-S 210	4.02	5.04	1.89	2.05	6.30	3.33	-	-	0.20	0.55	0.59	0.31	FA05-FA07-FA10	FA05-FA07-FA10
ILG-S 210 LB	5.91	6.10	2.95	2.05	6.26	3.33	-	-	0.20	0.55	0.59	0.31	FA12	FA05-FA07-FA10
ILG-S 550	5.43	6.85	2.72	2.80	7.91	4.69	-	-	0.24	0.95	0.79	0.47	FA07-FA10-FA12-FA14	FA07-FA10-FA12
ILG-S 550 LB	8.27	8.27	4.13	2.80	7.91	4.69	-	-	0.24	0.55	0.79	0.47	FA16	FA07-FA10-FA12
ILG-S 880	7.87	8.90	3.94	3.39	7.44	5.16	-	-	0.31	0.95	0.79	0.47	FA10-FA12-FA14-FA16	FA10-FA12-FA14
ILG-S 880 LB	10.24	10.07	5.11	3.39	7.44	5.16	-	-	0.31	0.55	0.79	0.47	FA20	FA10-FA12-FA14
ILG-S 1250	8.66	10.16	4.33	4.11	9.06	5.87	-	-	0.31	0.95	0.79	0.47	FA10-FA12-FA14-FA16	FA12-FA14-FA16
ILG-S 1250 LB	11.22	11.44	5.61	4.11	9.06	5.87	-	-	0.31	0.55	0.79	0.47	FA25	FA12-FA14-FA16
ILG-S 1950	11.22	12.72	5.63	5.12	10.83	6.89	-	-	0.39	1.10	0.98	0.47	FA12-FA14-FA16-FA25	FA16-FA25
ILG-S 1950 LB	13.80	14.00	6.90	5.12	10.83	7.01	-	-	0.51	1.10	0.98	0.47	FA30	FA16-FA25
ILG-S 1950/SP4	11.22	12.72	5.63	5.12	-	6.89	8.31	13.19	0.39	1.10	0.98	0.47	FA12-FA14-FA16-FA25	FA16-FA25
ILG-S 1950/SP4 LB	13.80	14.00	6.90	5.12	-	7.01	8.31	14.30	0.51	1.10	0.98	0.47	FA30	FA16-FA25
ILG-S 6800/SP4	14.57	15.83	6.69	7.17	-	8.78	10.35	15.28	0.31	1.10	0.98	0.79	FA16-FA25-FA30	FA25-FA30
ILG-S 6800/SP4 LB	16.34	17.30	8.17	7.17	-	8.78	10.35	15.28	1.14	1.10	0.98	0.47	FA35	FA16-FA25
ILG-S 6800/SP6	14.59	15.83	6.69	7.17	-	8.78	10.94	17.09	0.31	0.95	0.98	0.79	FA16-FA25-FA30	FA25-FA30
ILG-S 6800/SP6 LB	16.34	17.30	8.17	7.17	-	8.78	10.94	17.09	1.14	0.95	0.98	0.79	FA35	FA25-FA30
ILG-S 200/SP9	17.30	19.33	8.17	8.23	-	11.57	15.12	18.07	0.39	1.10	1.18	-	FA25-FA30-FA35	FA25-FA30-FA35
ILG-S 250/SP9	20.08	23.03	9.25	10.08	-	11.57	16.97	19.65	0.39	0.79	1.18	-	FA25-FA30-FA35-FA40	FA25-FA30-FA35

All dimensions in inches. *Flange thickness from the ILG-S 200/SP9 & ILG-S 250/SP9 changes per application.

Handwheel Selection Chart

Input Torque

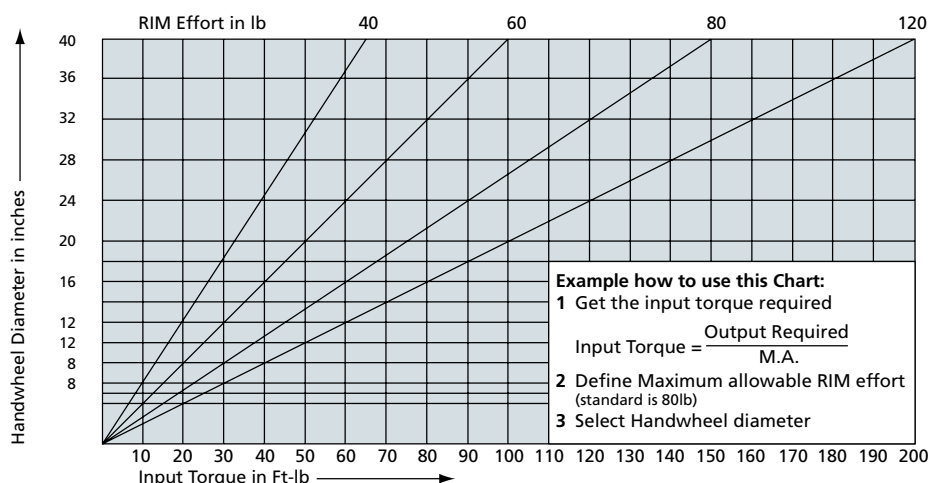
Type	M.A. ± 15%
ILG-S 210	11.6
ILG-S 550	12.0
ILG-S 880	13.2
ILG-S 1250	19.0
ILG-S 1950	19.0
ILG-S 1950/SP4	54.4
ILG-S 6800/SP4	93.6
ILG-S 6800/SP6	157
ILG-S 200/SP9	157
ILG-S 250/SP9	225.0



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
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	7.87	3.15
SG250	9.84	4.33
SG300	11.81	4.53
SG400	15.75	5.12
SG500	19.69	5.91
SG600	23.62	5.91
SG700	27.56	5.91
SG800	31.50	5.91
SG900	35.43	6.30
SG1000	39.37	6.30



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