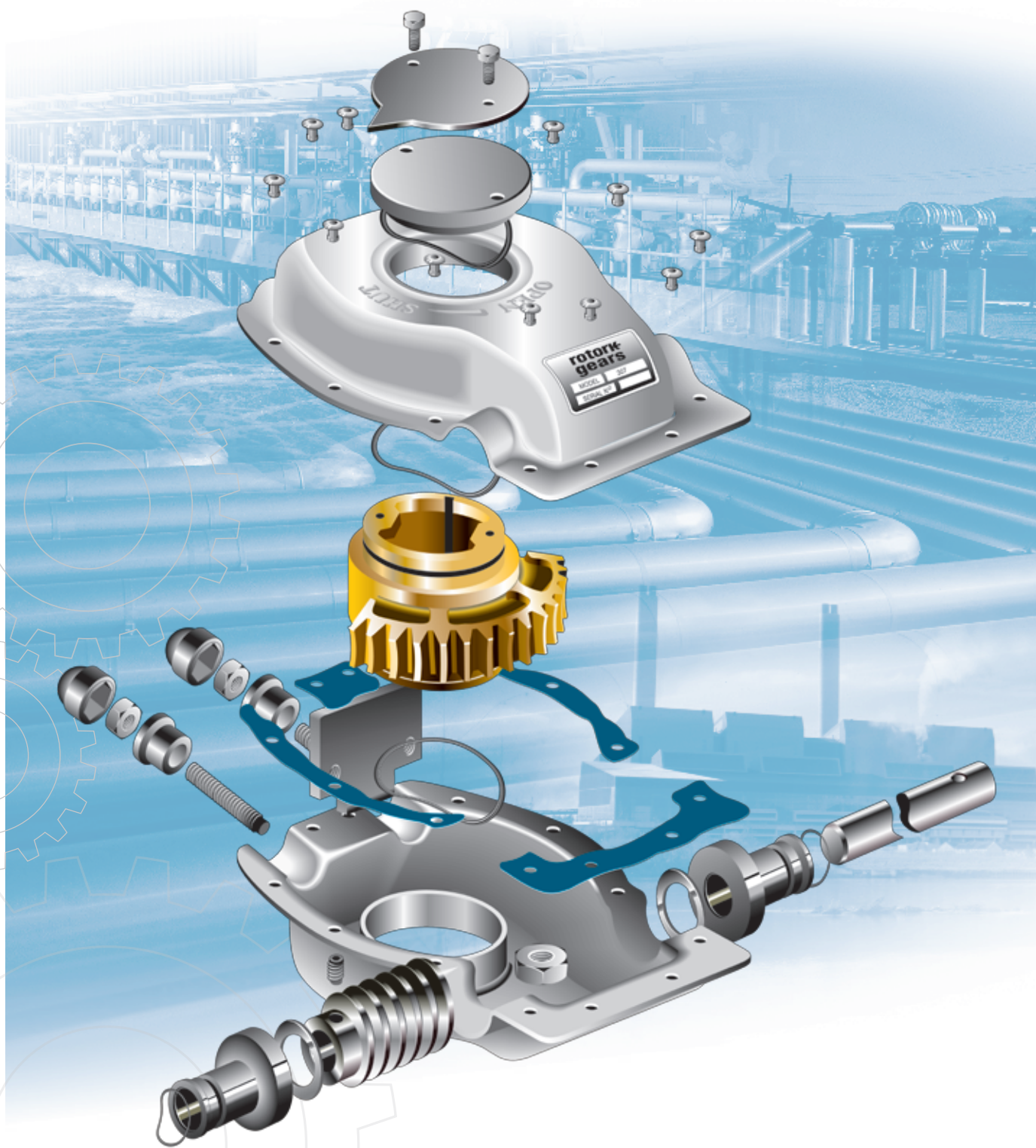


300 Quarter-turn Gearbox Series

rotork[®]
Gears



Stainless Steel Housing Gearboxes - 300 Quarter-turn Series

300 Gearbox Series

300 Quarter-turn Gearbox Series

Description

The Rotork Gears Series '300' quarter-turn gear operators are the first of their kind to use metal forming technology in their manufacture. This technology dramatically reduces manufacturing costs and allows the operator to be produced from stainless steel.

Application

Rotork Gears series '300' operators are quarter-turn devices intended for the operation of ball, plug and butterfly valves as well as power and process dampers. The unique sintered steel drive insert allows these gear operators to be fitted directly to most valve stems. The handwheels are available in a variety of sizes for smooth and easy operation.

The stainless steel operators are well suited for applications in highly corrosive environments as well as in breweries, pharmaceutical plants and sanitary facilities.



Materials

- Housing: 304 Stainless Steel
- Input shaft: 304 Stainless Steel
- Gear segment: Aluminium Bronze
- Stroke Adjusters: 304 Stainless Steel
- Indicator: 304 Stainless Steel
- Coating: None-100% 304 Stainless Steel (polished)

Features

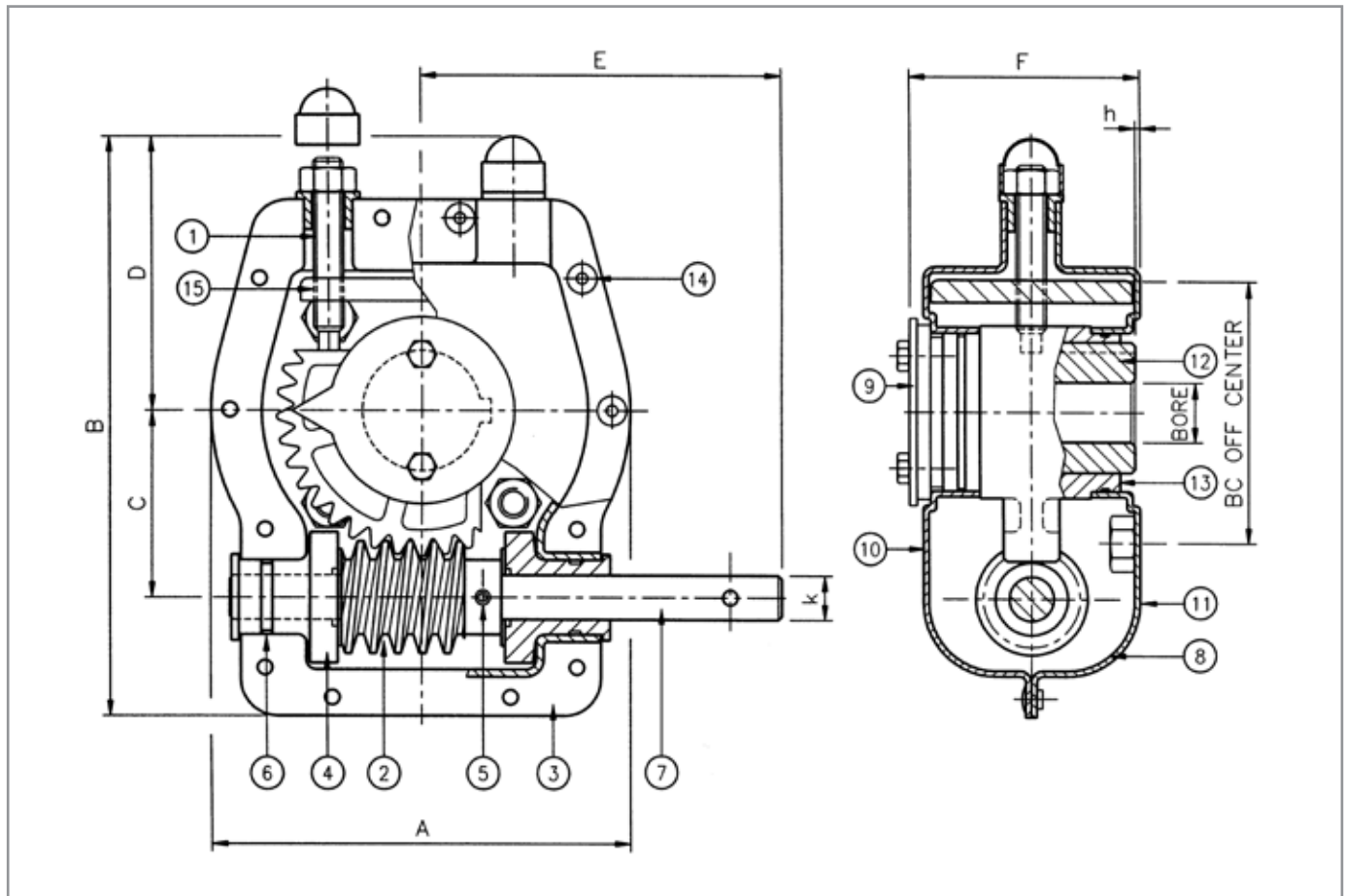
- Stainless Steel housing
- Stainless Steel input shaft
- Three models up to 8,860 lbf.in output
- Rugged construction
- Sealed to IP65
- Light weight
- Replaceable stem drives (307-310)
- Patented, pressed-metal technology
- Optional Flexible Extensions

Performance specification

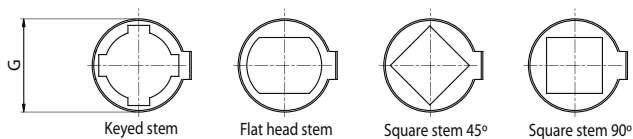
- Stroke: 0 - 90° ($\pm 5^\circ$ adjustable)
- Enclosure: Weatherproof to IP65
- No. of Models: 3
- Torque Range: 2,200 to 8,860 lbf.in.
- Temperature: -4 to +250 °F

Established Leaders in Actuation Technology

Gearbox 300 Series



Inserts Valve Stem Variations



Material Specification

No.	Description	Material	Notes
1	Set-screw	Stainless Steel	A2 / DIN 916
2	Worm	Carbon Steel	C45 / AISI 1045
3	Sealing	Polyurethan	PURAFLEX 2001
4	Bushing	Nylon	-
5	Set-screw	Carbon Steel	St. 45 H
6	O-ring	Nitrile	-
7	Shaft	Stainless Steel	AISI 303
8	Grease	Lithium-Calcium	Multipurpose EP-2
9	Position indicator	Stainless Steel	AISI 304
10	Body-top	Stainless Steel	AISI 304
11	Body-bottom	Stainless Steel	AISI 304
12	Inserts	Sintered Steel	-
13	Quadrant	Alu-Bronze	-
14	Rivets	Stainless Steel	-
15	Set-screw-plate	Steel	Steel 37.2

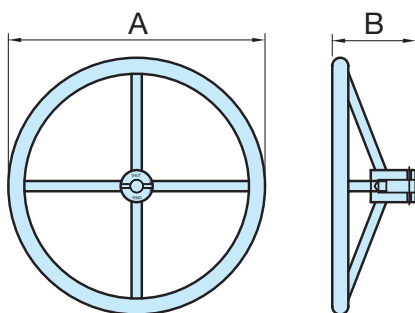
Type	Ratio	Torque (lb. inch)		M.A. ± 15%	Weight (lb)
		Output	Input		
307	37:1	2200	184	11.9	2.9
310	45:1	4400	338	12.8	6.2
312	40:1	8860	886	12.5	15.4

Type	A	B	C	D	E	F	øG	H	K	Bore Max.	Valve Connection		
											ISO	øBC	4x
307	4.45	6.10	1.97	2.80	4.69	2.67	1.27	0.05	0.47	0.79	FA07	70	M8
310	6.10	7.28	2.36	3.54	7.09	3.31	1.78	0.07	0.59	1.18	FA10	102	M10
312	7.40	9.29	3.15	4.02	6.57	3.43	-	0.22	0.79	1.57	FA12	125	M12

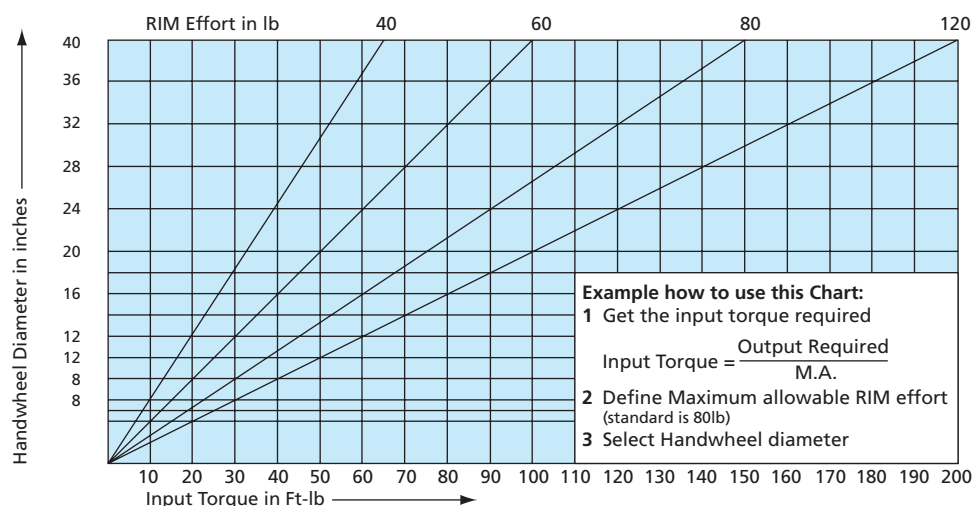
Handwheel Selection Chart

Input Torque

Type	M.A. ± 15%
307	11.9
310	12.8
312	12.5



300 Series 'S' Type handwheel



Dimensions

Type	øA	B
S150	5.90	2.36
S200	7.87	3.15
S350	13.78	4.72

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