

300 Quarter-turn

Stainless Steel Housing Gearboxes



300 Quarter-turn Gear Series

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.

Features

- Stainless Steel housing
- Stainless Steel input shaft
- Three models up to 1000 Nm (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° (± 5° adjustable)
- Enclosure: Weatherproof to IP65
- No. of Models: 3

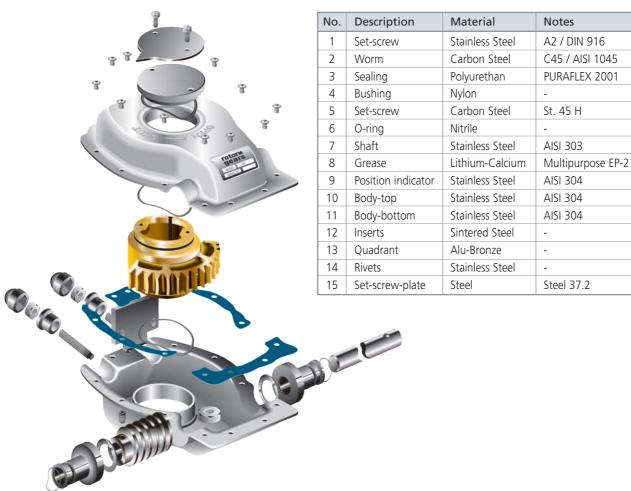
- Torque Range:
 250 to 1000 Nm
 (2,200 to 8,860 lbf.in.)
- Temperature:
 -20 to +120 °C
 (-4 to +250 °F)

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)



Material Specification



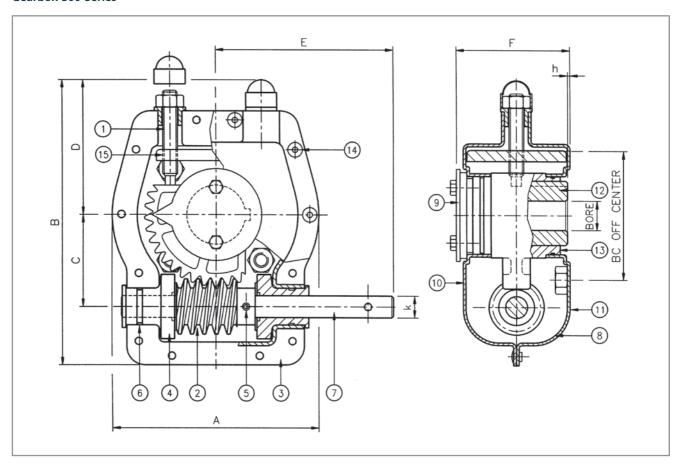
Туре	А	В	С	D	Е	F	øG	Н	K	Bore Max.	Valve Connection ISO øBC 4x
307	113 (4.45)	155 (6.10)	50 (1.97)	71 (2.80)	119 (4.69)	68 (2.67)	32.15 (1.27)	1.3 (0.05)	12 (0.47)	20 (0.79)	F07 70 M8
310	151 (6.10)	185 (7.28)	60 (2.36)	90 (3.54)	180 (7.09)	84 (3.31)	45.3 (1.78)	1.8 (0.07)	15 (0.59)	30 (1.18)	F10 102 M10
312	188 (7.40)	236 (9.29)	80 (3.15)	102 (4.02)	167 (6.57)	87 (3.43)	-	5.5 (0.22)	20 (0.79)	55 (1.57)	F12 125 M12

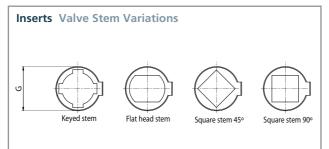
All dimensions in millimetres. Contents subject to change without notice.

300 Quarter-turn

Stainless Steel Housing Gearboxes

Gearbox 300 Series





Type	Ratio	Torque Nm (lbf. inch)		M.A.	Weight	
		Output Input		± 15%	Kg (lb)	
307	37:1	250 (2200)	21 (184)	11.9	1.3 (2.9)	
310	45:1	500 (4400)	39 (338)	12.8	2.8 (6.2)	
312	40:1	1000 (8860)	100 (886)	12.5	7.0 (15.4)	

The static safety factor is 1.5.





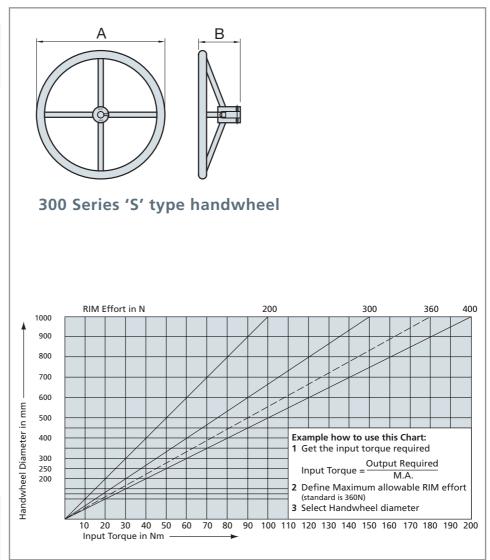
300 Quarter-turn

Stainless Steel Housing Gearboxes

Handwheel Selection Chart

Input Torque

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



Dimensions

Type	Α	В	
S150	Ø150	60	
S200	Ø200	80	
S350	Ø350	120	

Rotork Gears BV Nijverheidstraat 25 7581 PV Losser P.O. Box 98 7580 AB Losser The Netherlands

tel: +31 (0)53-5388677 fax: +31 (0)53-5383939 email: info@rotorkgears.nl Rotork Gears UK Regina House Ring Road Bramley, Leeds West Yorkshire LS13 4ET England

tel: +44 (0)113 2057276 fax: +44 (0)113 2563556 email: sales@rotorkgears.com Rotork Gears Americas 1811 Brittmoore Houston Texas 77043 USA

tel: +1 713 983 7381 fax: +1 713 856 8022 email: gears@rotorkgears.com

Rotork Valvekits Brookside Way, Nunn Park, Huthwaite, Nottinghamshire, NG17 2NL England

tel: +44 (0)1623 440211 fax: +44 (0)1623 440214 email: sales@rotorkvalvekits.com Rotork Gears S.R.L. via Olona, 65/67 20015 Parabiago (MI) Italy

tel: +39 0331 552128 fax: +39 0331 553147 email: info@rotorkgears.it

Rotork Gears India 165/166, Bommasandra, Jigani Link Road, Kiadb Industrial Area, Anekal Thaluk, Jigani Hobli, Bangalore 562106

tel: +91 80 3098 1600 fax: +91 80 3098 1610 email: sales@rotork.co.in Rotork Gears Shanghai No. 260 Lian Cao Road Xin Mei Urban Industrial Park Min Hang District Shang Hai 201108 China

tel: 0086-21-64348388 fax: 0086-21-64348366 email: info@rotorkgears.com.cn

Formerly RGm411E. As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change.

For the very latest version release, visit our website at www.rotork.com.

The name Rotork is a registered trademark. Rotork recognizes all registered trademarks. Published and produced in the UK by Rotork Controls Limited. POWSH0211

www.rotork.com

A full listing of our worldwide

sales and service network is

available on our website at