

## Limitorque SR Series

Spur Gearboxes

The SR series spur gearboxes offer an extensive range of thrust and torque outputs for multi-turn applications such as gate and globe valves, and slide gates. Applications for weatherproof or temporary submersion (IP67) service can be accommodated. For manual operation, spur gear attachments are available to reduce the input torque required,

resulting in lower handwheel rim pull for opening and closing operations.

The SR series ductile iron housing provides strength and durability. The drive sleeve, spur pinion shaft, and spur gear reduction shafts are roller bearing-supported, delivering high mechanical advantage and long life. Excellent sealing of mating surfaces provides reliable environmental protection. Ambient temperatures to -35°C are achieved with the standard lubricant.



SR series spur gearboxes are easily adapted for motorized operation by MX, L120 and SMB actuators.





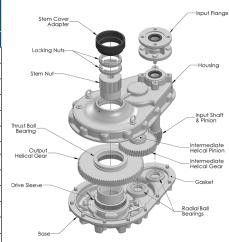


## Features and Benefits

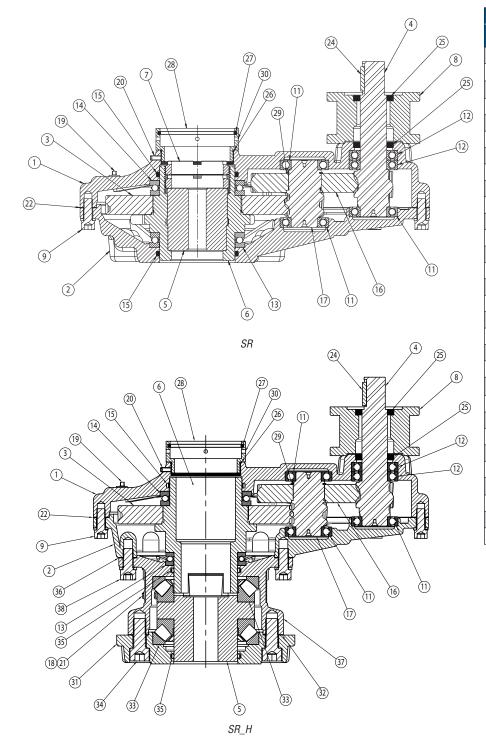
- Weatherproof and temporary submersion construction (IP67)
- · Maintenance-free
- · Input flanges machined in accordance with MSS SP-102, with keyed input shaft
- · Mounting bases machined to MSS and ISO standards
- · Splined, bronze alloy stem nut is removable from the drive sleeve for thread machining
- · High strength spur pinion and ring gear
- · Roller bearing supported for high mechanical advantage
- · Ductile iron enclosure
- · SR\_H series for high thrust and torque applications
- Output thrust to 1 056 600 lbs (4700 kN)
- Output torque to 27 290 ft-lbs (37 000 Nm)
- -35°C to 90°C (-31°F to 194°F) temperature range for continuous operation (options to -50°C)

## Ratings

Gearbox	Ratio	Stem Capacity		Output Thrust Rating (manual and motorized)		Output Torque Rating (manual and motorized)	
		Inches	MM	Lbs	kN	ft-lb	N-m
SR200	4, 5, 6, or 12	2.44	62	42 710	190	1106	1500
SR300	4, 6, 8, or 13	2.83	72	64 750	288	1844	2500
SR400	5, 8, 10, or 14	3.86	98	89 920	400	3835	5200
SR500	5, 8, 10, or 15	4.53	115	114 650	510	5753	7800
SR600	5, 8, 10, or 16	5.12	130	519 300	2310	9588	13 000
SR700	5, 8, 10, or 17	5.91	150	562 020	2500	12 981	17 600
SR200H	4, 5, 6, or 12	2.56	65	242 800	1080	2139	2900
SR300H	4, 6, 8, or 13	3.15	80	384 400	1710	3319	4500
SR400H	5, 8, 10, or 14	3.74	95	550 800	2450	7228	9800
SR500H	5, 8, 10, or 15	4.33	110	651 900	2900	11 063	15 000
SR600H	5, 8, 10, or 16	5.12	130	786 800	3500	16 964	23 000
SR700H	5, 8, 10, or 17	5.91	150	1 056 600	4700	27 290	37 000







	SR	SRH				
Item No.	Description	Qty	Item No.	Description	Qty	
1	Housing	1	1	Housing	1	
2	Base	1	2	Base	1	
3	Output Helical Gear	1	3	Output Helical Gear	1	
4	Input Shaft & Pinion	1	4	Input Shaft & Pinion	1	
5	Stem Nut	1	5	Stem Nut	1	
6	Drive Sleeve	1	6	Drive Sleeve	1	
7	Lock Nut	2	7	N/A	N/A	
8	Input Flange	1	8	Input Flange	1	
9	Cap Screw	12	9	Cap Screw	12	
10	Cap Screw	4	10	Cap Screw	4	
11	Radial Ball Bearing	3	11	Radial Ball Bearing	3	
12	Radial Ball Bearing	2	12	Radial Ball Bearing	2	
13	Thrust Ball Bearing	1	13	Thrust Ball Bearing	1	
14	Thrust Ball Bearing	1	14	Thrust Ball Bearing	1	
15	0-Ring	2	15	0-Ring	1	
16	Intermediate Helical Gear	1	16	Intermediate Helical Gear	1	
17	Intermediate Helical Pinion	1	17	Intermediate Helical Pinion	1	
18	N/A	N/A	18	Pipe Plug	1	
19	Pipe Plug	1	19	Pipe Plug	1	
20	Set Screw	1	20	Set Screw	1	
21	N/A	N/A	21	Pipe Plug	1	
22	Gasket	1	22	Gasket	1	
23	Eye Bolt	2	23	Eye Bolt	2	
24	Key	1	24	Key	1	
25	Oil Seal	2	25	Oil Seal	2	
26	0-Ring	1	26	0-Ring	1	
27	0-Ring	1	27	0-Ring	1	
28	Stem Cover Adapter	1	28	Stem Cover Adapter	1	
29	Retaining Ring	1	29	Retaining Ring	1	
30	Set Screw	4	30	Set Screw	4	
	I.		31	Thrust Base	1	
			32	Gasket	1	
		33	Thrust Roller Bearing	2		
		34	Cap Screw	8		
				0-Ring	2	
		36	Gasket	1		

Thrust Housing

Cap Screw

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FCD LMENFL3702-00-AQ  $\,$  11/15  $\,$  2015 Flowserve Corporation.

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