QUARTER-TURN GEAR OPERATORS

SCI CORPORATION
QUALITY VALVES WORLDWIDE

SQTW Quarter-turn Gear Series

Valve Gears SQTW series Quarter-Turn Worm Gearboxes, are intended to operate Ball, Plug and Butterfly valves as well as power and process dampers. They are rugged, industrial grade products manufactured with ductile iron housing components.

APPLICATION

SQTW series Quarter-Turn worm gearboxes are suited for power, chemical, water, HVAC industries and for most general industrial applications. Various ratios and hand wheels are available in different.

FEATURES

- Precision casting ductile iron housing
- Output torque, range from 420 up to 135000 Nm
- High efficient roller bearing
- High strength protected steel input shaft
- Stroke 0°-90°(±5° adjustable)
- Compact structure
- Totally enclosed gearing with O-rings
- Enclosure Protection IP67
- Valve Connection: ISO5211
- Lubricant (Grease)
- Working temperature form -20°C to +120°C

OPTIONS

- Padlock
- Enclosure protection IP68
- High and Low Temperature

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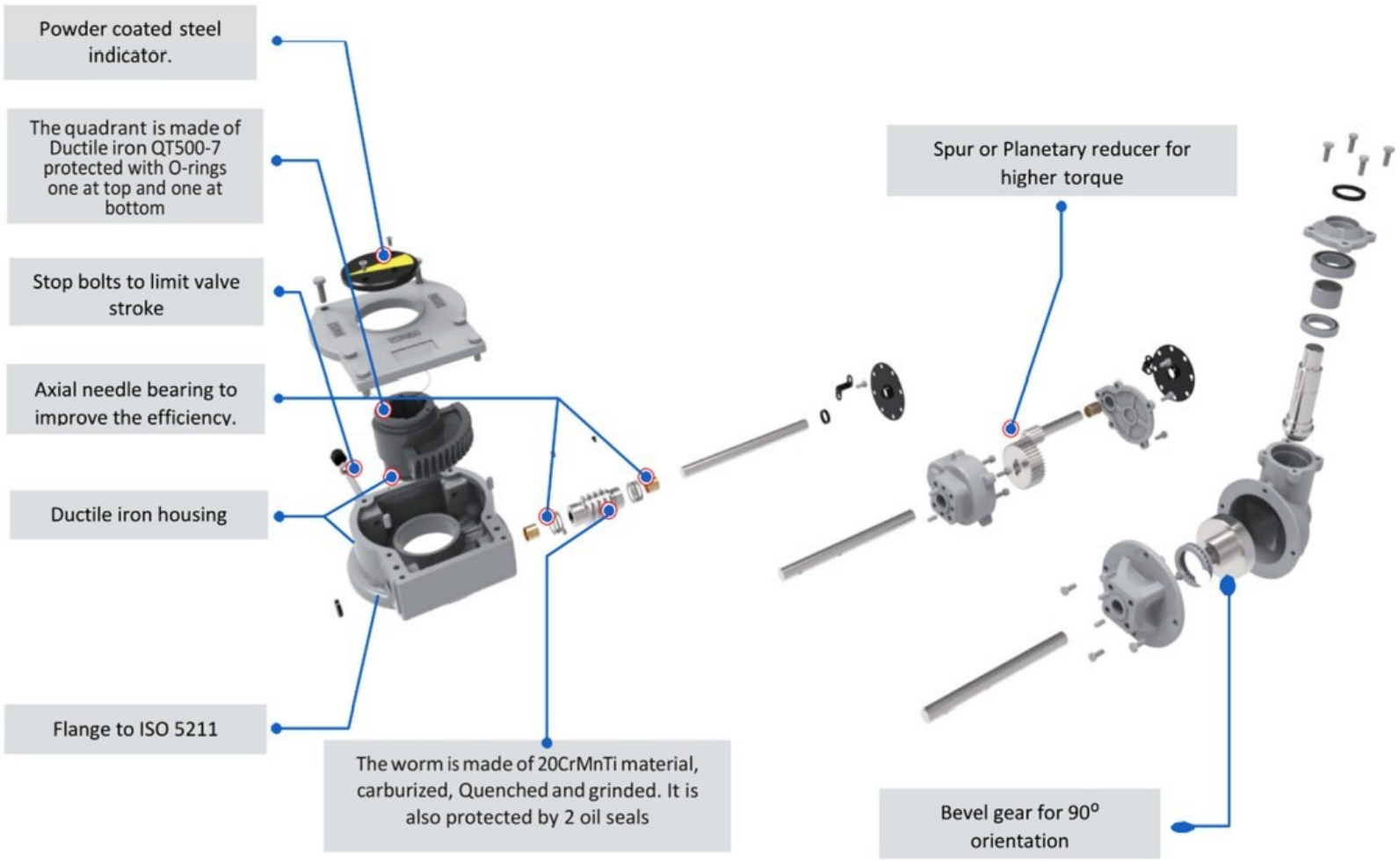
Materials

DESCRIPTION	MATERIAL
Gear Case	Ductile Iron
Cover Plate	Ductile Iron
Quadrant	Ductile Iron (QT500-7)
Worm	Carbon Steel/Alloy Steel(20CrMnTi)
Shaft	Protected Steel
Needle Roller Bearing	Steel
Position Indicator	Powder Coated Metal
Oil seal	Nitrile
O-Ring	Nitrile
Stop Bolts & Screws	Carbon Steel



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Technical data Standard series.

NO.	Gear Model	Output torque (Nm)	RATIO X:1	M.A. ± 10%	Weight (kg)
1	SQTW42	420	29	8.7	2.3
2	SQTW63	630	37	11.1	3.6
3	SQTW84	840	42	12.3	5.8
4	SQTW110	1100	38	11.8	6
5	SQTW110G	1100	38	11.8	6
6	SQTW162	1620	40	12.4	12.5
7	SQTW260	2600	47	14.6	13
8	SQTW260-BR3.2	2600	153	42.8	16.7
9	SQTW325	3250	55	17.6	14.5
10	SQTW390-BR3.2	3900	179	50	18.2
11	SQTW390	3900	61	18.9	23.7
12	SQTW420	4200	69	21.4	28.5
13	SQTW520-BR3.2	5200	167	45.1	27.4
14	SQTW540-BR2.5	5400	153	42.9	35
15	SQTW680-BR3.2	6800	186	52.1	35
16	SQTW910-BR3.5	9100	182	51	37
17	SQTW1080-BR5	10800	295	82.6	57
18	SQTW1250-BR6	12500	348	94	64
19	SQTW1540-BR6	15400	348	94	64
20	SQTW2080-BR8	20800	519	140.1	90
21	SQTWL2080-BR8	20800	519	140.1	98
22	SQTW2340-BR10	23400	589	165.1	92
23	SQTW3050-BR11	30500	627	175.6	126
24	SQTW3750-BR16	37500	959	258.9	169
25	SQTW4500-BR21	45000	1110	310.8	220
26	SQTW4950-BR25	49500	1453	405.4	237
27	SQTW5500-BR25	55000	1453	405.4	237
28	SQTW6250-PR29	62500	1658	447.7	276
29	SQTW8000-PR35	80000	2228	601.6	365
30	SQTW10500-PR53	105000	2769	747.6	430
31	SQTW13500-PR53	135000	3621	941.5	530

Technical data SR series.

NO.	Gear Model	Output torque (Nm)	RATIO X:1	M.A. ± 10%	Weight (kg)
1	SQTW63-SR0.5	630	46	10	6.3
2	SQTW110-SR0.5	1100	47	11	8.5
3	SQTW162-SR1	1620	62	15	14
4	SQTW260-SR1	2600	72	18	17
5	SQTW300-SR1	3000	85	21	18
6	SQTW480-SR2	4800	128	33	20
7	SQTW630-SR2	6300	143	36	37
8	SQTW780-SR2	7800	128	33	44
9	SQTW1080-SR4	10800	236	60	63
10	SQTW1250-BR6-SR1	12500	357	90	68
11	SQTW1250-BR6-SR1	12500	535	139	68
12	SQTW1750-BR6-SR1	17500	572	162	81
13	SQTW2080-BR6-SR1	20800	572	162	81
14	SQTW2340-BR10-SR2	23400	660	157	124
15	SQTW3050-BR11-SR2	30500	1093	260	131
16	SQTW3750-BR16-SR2	37500	1328	316	174
17	SQTW4500-BR21-SR2	45000	1550	369	225
18	SQTW4950-BR25-SR2	49500	1693	403	232
19	SQTW5500-BR25-SR2	55000	1693	403	232
20	SQTW6250-PR29-SR2	62500	2463	586	281
21	SQTW8000-PR35-SR2	80000	2692	640	370
22	SQTW10500-PR53-SR2	105000	4010	954	435
23	SQTW11500-PR53-SR2	115000	4010	954	569
24	SQTW13500-PR54-SR2	135000	5244	1248	660

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