

SJ series

Partial-turn gear operators

SJ series partial-turn gear operators are widely used in water plants, chemical plants, and power plants and for general industrial applications. SJ single-stage models have a speed ratio varying from 24:1 to 80:1 and torque ranging from 170NM to 2500NM.



Main Components List

Part name	Material
Hand wheel	HT250/ GB9439-88
Worm shaft	45GB/T699-1999
Housing	HT250/ GB9439-88
Baffle ring	JDB-3
Worm	45GB/T699-1999
Worm gear	QT500-7/GB1348-88
Cover	HT250/GB9439-88
Indieator	Q235A GB/T700-2006

Instructions for Installation and Operation

Connect the bottom flange of the gear operator to the upper flange of the valve and slide the valve shaft into the hole on the worm gear. Tighten the flange bolt. The valve can be closed by turning the hand-wheel clockwise and opened by turning the hand-wheel counterclockwise. On the upper face of the gear operator, a position indicator and a position marking are mounted, through which the position of switch can be directly observed. The gear operator is also equipped with a mechanical limit screw, which can be adjusted and function to limit the position at the switch extreme position.

Product Features

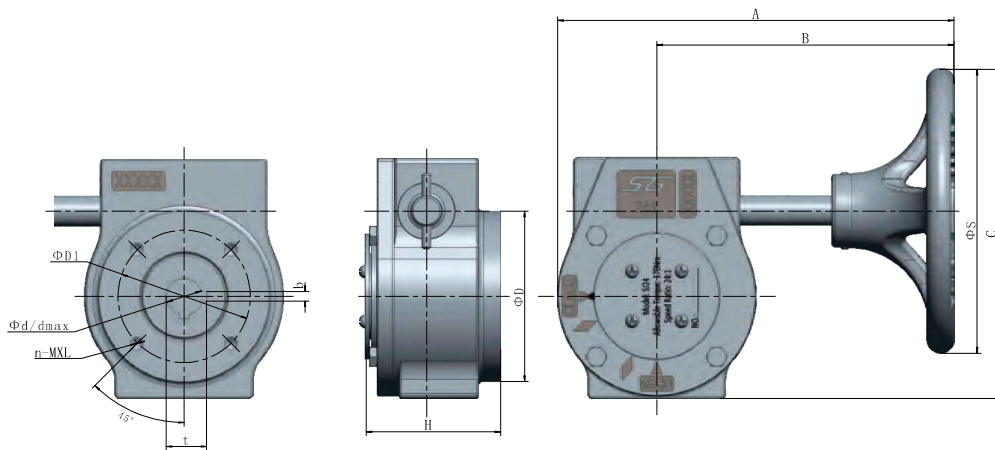
- 1、Gray iron casing
- 2、Welded hand-wheel (200 or above)
- 3、IP67 grade protection
- 4、Nickel-plated input shaft, with more resistance to corrosion
- 5、Ductile iron worm gear
- 6、NBR sealing materials
- 7、Suitable for -20°C ~ 120°C working conditions

Customization

- 1、WCB, LCB, or ductile iron casing
- 2、IP68 grade protection
- 3、Cast hand-wheel (150~450)
- 4、Aluminum-bronze worm gear
- 5、Stainless steel input shaft
- 6、For high temperature up to 170°C
For low temperature down to -40°C
- 7、For marine use
- 8、Designed with a lock mechanism

Main Technical Parameter

Model	Ratio	Rating input (Nm)	Rating output (Nm)	Efficiency(%)	Hand-wheel
SJ24	24:1	30	170	23	Φ150
		48	270		Φ300
SJ30	30:1	90	700	26	Φ300
SJ50	50:1	95	1200	25	Φ300
SJ80	80:1	95	2000	26	Φ300
					Φ400



Main Technical Parameter

Model	d	dmax	b	t	D	D1	n-MXL	A	B	C	H	Φ	Gear ration	Output torque NM
SJ24	12.7	26	3	14.2	Φ77	Φ57	4-M6x13	201	148	249	75	150	24:1	170
	19.05	26	5	21.4	Φ92	Φ70	4-M8x13	201	148	249	75	300	24:1	270
SJ30	28.6	30	8	31.9	Φ125	Φ102	4-M10x15	315	238	300	85	300	30:1	700
SJ50	31.8	45	8	35.1	Φ150	Φ125	4-M12x18	310	226	310	86	300	50:1	1200
SJ80	38.1	54	10	41.5	Φ210	Φ165	4-M20x26	410	277	450	125	400	80:1	2000