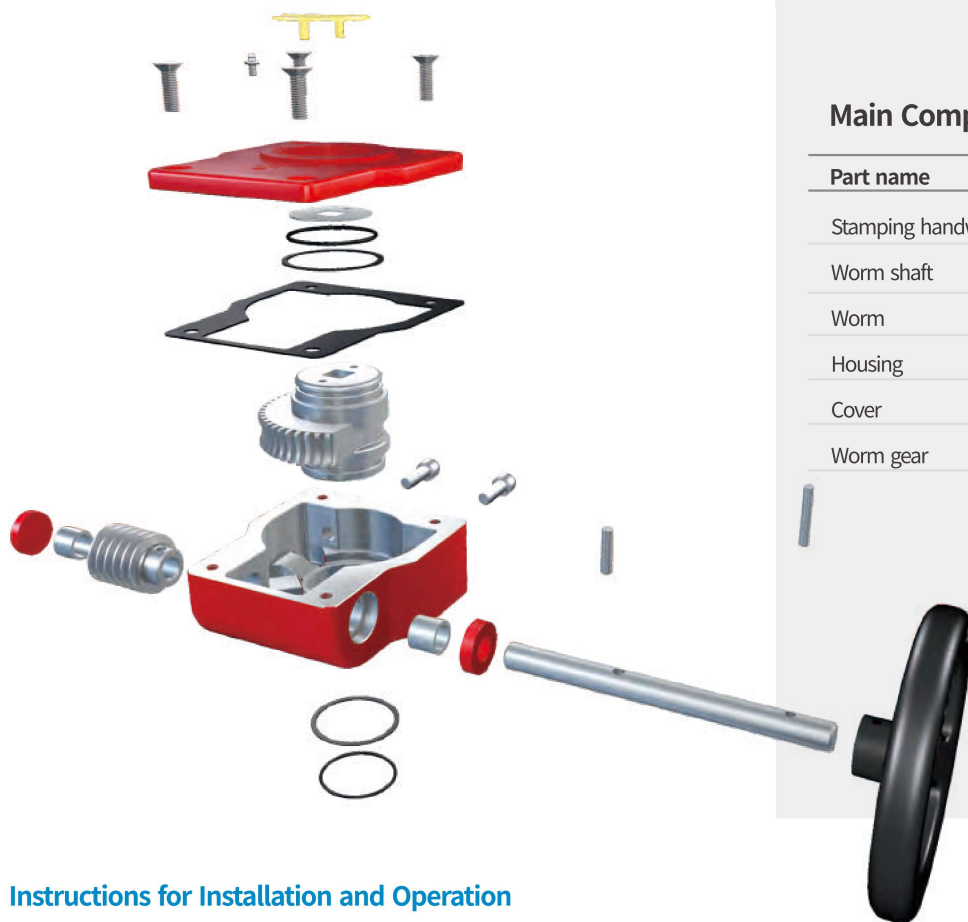


SD series

Partial-turn gear operators

SD series partial-turn gear operators adopt a cast aluminum casing and are suitable for conventional industrial applications in power supply, hydro-electric generation, fire fighting, and HVAC systems.



Main Components List

Part name	Material
Stamping handwheel	Q235A GB/T700-2006
Worm shaft	45GB/T699-1999
Worm	45GB/T699-1999
Housing	YL113 GB/T15115-94
Cover	YL113 GB/T15115-94
Worm gear	QT500-7 GB1348-886

Instructions for Installation and Operation

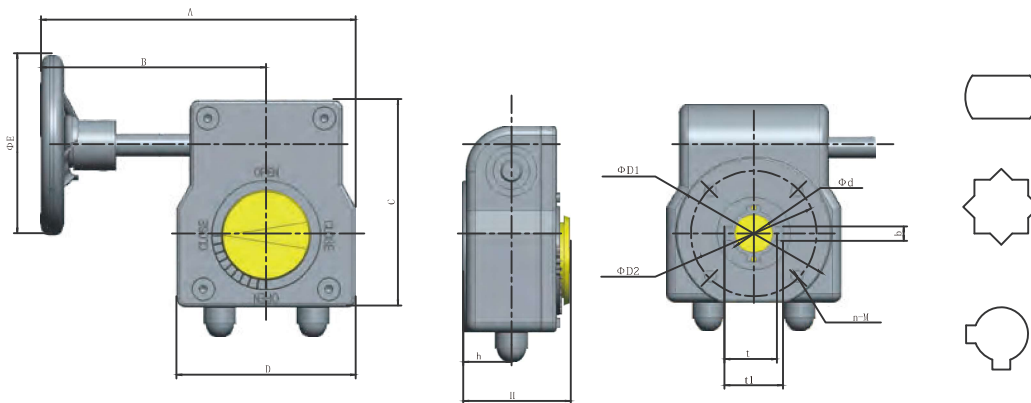
Connect the bottom flange of the gear operator to the upper flange of the valve and slide the valve shaft into the hole on the worm gear. Tighten the flange bolt. The valve can be closed by turning the hand-wheel clockwise and opened by turning the hand-wheel counterclockwise. On the upper face of the 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. Lightweight aluminium die-cast alloy (YL113) casing
2. IP65 graded protection
3. Nickel-phosphorus plated input shaft
4. NBR sealing materials
5. Suitable for -20°C~120°C working conditions

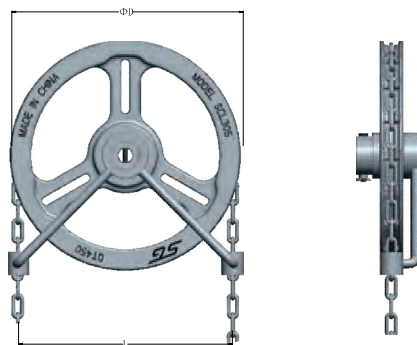
Customization

1. Aluminum-bronze worm gear
2. Stainless steel input shaft



SD Series Die Casting Aluminum Alloy Valve Drives Size Chart

Model	dmax	b	t	t1	D1	D2	n-M	A	B	C	D	H	h	ΦE	Ratio	Input torque Nm	Output torque Nm	Weight Kg
SD-10	22	6	24.8	27.6	80	50	4-M6	148	108	98	80	48	26	100	40:1	16.5	150	1.45
	22	6	24.8	27.6	80	70	4-M8	148	108	98	80	48	26	100	40:1	16.5	150	1.45
SD-15	30	8	33.3	36.6	90	70	4-M8	169	119	115	100	55	27	120	37:1	25	250	1.9
SD-50	42	12	45.3	48.6	140	102	4-M10	296	223	155	146	71	38	300	45:1	55	750	5.2
SD-120	50	14	53.8	57.6	175	140	4-M16	410	323	212	175	80	39.5	400	40:1	100	1200	9.2



Valve Drive Unit With Sprocket Specification Table

Model Size	SCL115	SCL290	SCL305	SCL410	SCL508	SCL600	SCL700
D	115	290	305	410	508	600	700
L	97	270	287	382	478	573	670
Matching chain	GB/T20947-4.5x25 Chain length is selected as needed.						