

SJ Series

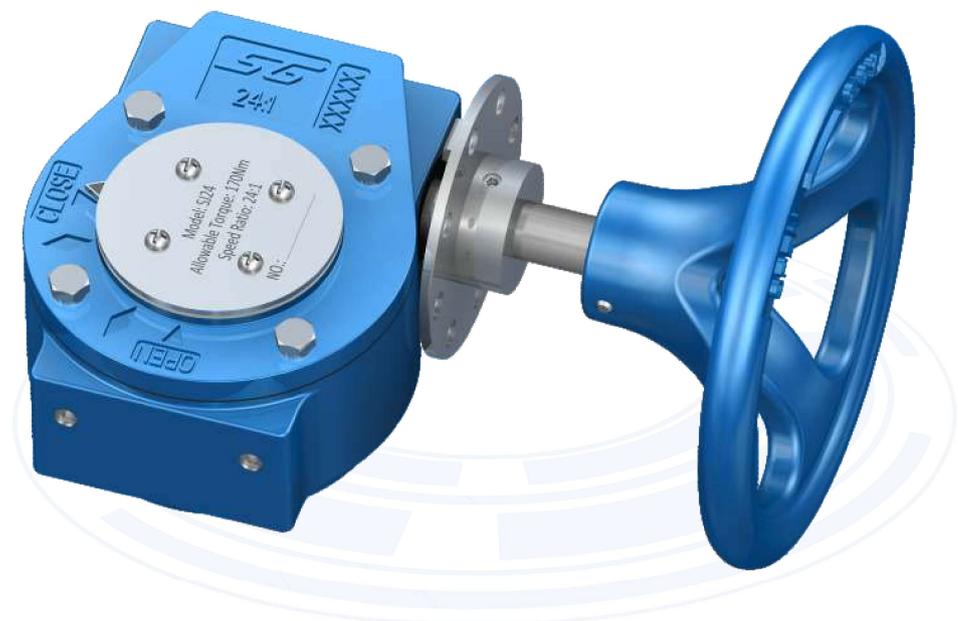
Cast-Iron Gearbox

The SJ series is a part-turn gear operator. It combines cost-optimisation and durability for low-torque manual valve applications.

The SJ series cast iron gearbox is suitable for ball, butterfly or plug valves and other part-turn valves. It is commonly used in power, waterworks, gas pipelines, fire protection and most industrial applications.

Torque range: 170Nm~2000Nm

4 sizes. Ratios from: 24:1 to 80:1

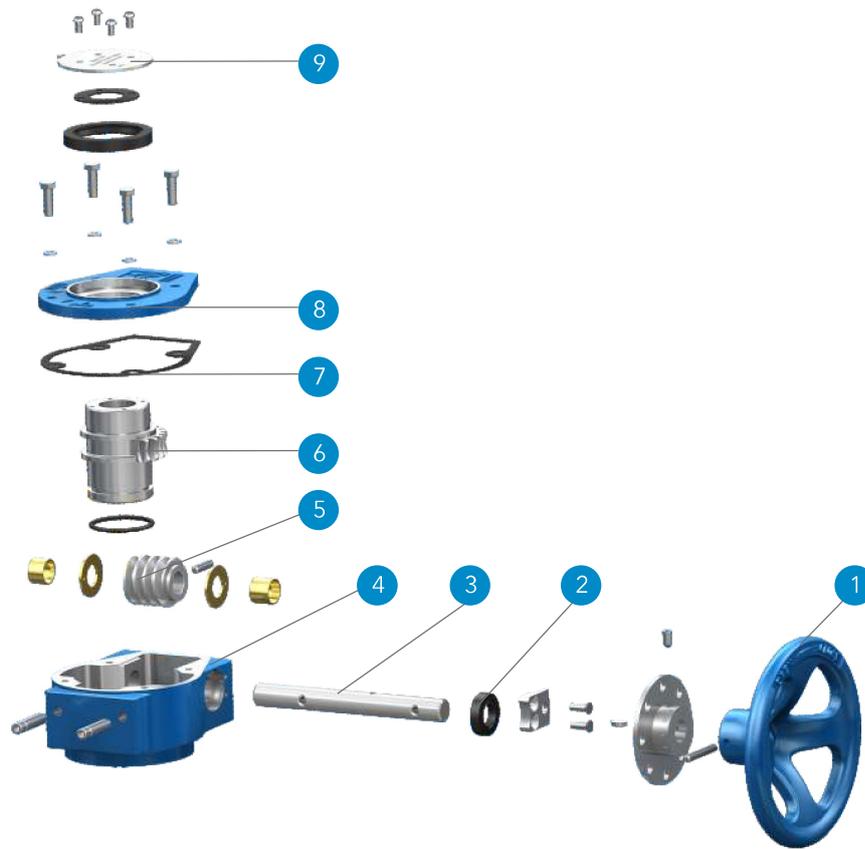


Features:

- Casting Handwheel
- Cast iron housing
- Ductile iron quadrant
- Travel range: 0° to 90° (±5° adjustment)
- Carbon steel input shaft
- IP65
- Standard temperature range -20°C~120°C

Options:

- Locking device
- Ductile iron or WCB housing
- Stainless steel input shaft and fasteners
- IP67 / IP68
- Namur switch connection
- Low temperature: -40°C
- High temperature: +200°C
- Bronze quadrant



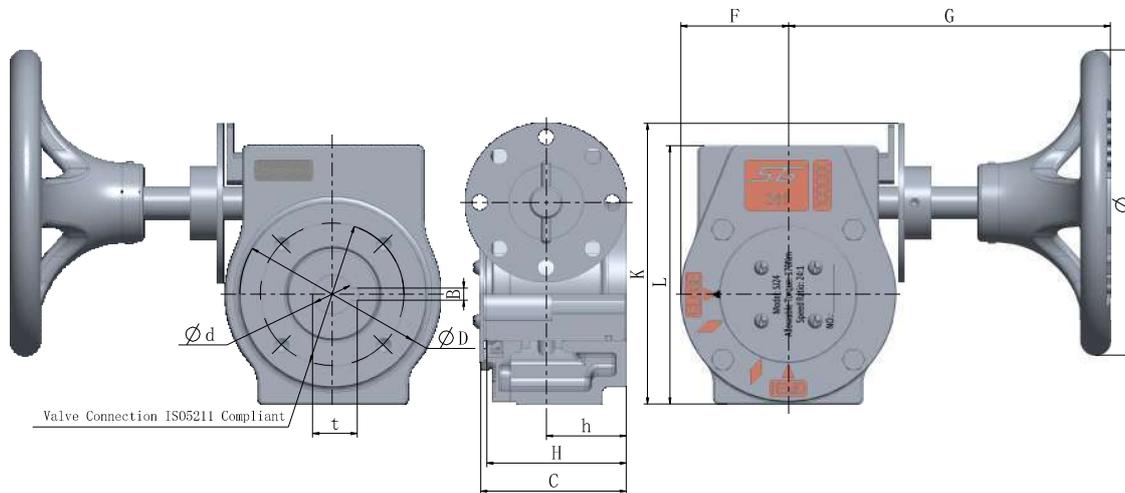
Material Specification

No.	Part name	Material				
		GB	ASTM/AWS	DIN	BS	ISO
1	Hand wheel	HT200	NO.30	GG20	Grade 180 Grade 220	200
2	Bearing	Oil free bearing				
3	Input shaft	45	1045	C45E CK45	C45E 080M46	C45E4
4	Body	HT250	No.35 No.40	GG25	Grade 260	250
		QT450-10	65-45-12	C45E CK45	420/12	450-10
5	Worm	45	1045		C45E 080M46	C45E4
6	Quadrant	QT500-7	88-55-06	GGG-50	500/7	500-7
7	Seal			NBR		
8	Coverplate	HT250	No.35 No.40	GG25	Grade 260	250
		QT450-10	65-45-12		420/12	450-10
9	Position Indicator	1CR17MN6NI5N	★201			X12CrMnNi17-7-5

Note: Due to the company's policy of continuous improvement, Stard-Gears reserves the right to change specification details without prior notice.

Main Technical Specifications

Model	Ratio	Input Torque (Nm)	Output Torque (Nm)	Efficiency(%)	M.A.(±10%)	Handwheel Diameter
SJ24	24:1	30	170	23	5.7	Φ150
	24:1	48	270	23	5.7	Φ300
SJ30	30:1	90	700	26	7.8	Φ300
SJ50	50:1	95	1200	25	12.6	Φ300
SJ80	80:1	95	2000	26	21.1	Φ400



SJ Series Cast-Iron Gearbox Dimensions

Model	ΦD	Valve Connection	Max Stem Diameter	B	t	h	H	C	F	G	K	L	ΦHW
SJ24	Φ90	☆F05	Φ20	6	22.8	39	68	71	52.5	157	138	127	Φ150
	Φ90	F07	Φ26	8	29.3	39	68	71	52.5	157	138	127	Φ150
	Φ125	F10	Φ26	8	29.3	39	68	71	52.5	153	146.5	135.5	Φ300
SJ30	Φ90	F07	Φ30	8	33.3	41.5	79.5	82.5	75	238	188	175	Φ300
	Φ125	F10	Φ30	8	33.3	41.5	79.5	82.5	75	238	188	175	Φ300
	Φ150	F12	Φ30	8	33.3	41.5	79.5	82.5	75	238	188	175	Φ300
SJ50	Φ140	☆F10	Φ45	14	48.8	38.25	78.5	81.2	81	209	209	197.5	Φ300
	Φ150	F12	Φ45	14	48.8	38.25	78.5	81.2	81	209	209	197.5	Φ300
	Φ170	F14	Φ45	14	48.8	38.25	78.5	81.2	81	209	209	197.5	Φ300
	Φ170	F16	Φ45	14	48.8	38.25	78.5	81.2	81	209	209	197.5	Φ300
SJ80	Φ210	☆F12	Φ54	16	58.3	61	119.5	122.2	130	277	300	290	Φ400
	Φ210	F14	Φ54	16	58.3	61	119.5	122.2	130	277	300	290	Φ400
	Φ210	F16	Φ54	16	58.3	61	119.5	122.2	130	277	300	290	Φ400

Note: "☆" means that the positioning step cannot be processed. Please refer to the dimensions "d2" in the ISO 5211 standard.