
Rugged and reliable cast steel part-turn gearbox for high torque manual valve applications. Suitable for oil, gas, chemical, nuclear and other demanding industrial valves. Suitable for ball, butterfly or plug valves and other part-turn valves.

Torque range: 1000Nm~5600Nm

5 sizes. Ratios from: 30:1 to 140:1

SGJ Series

Cast-Iron Gearbox

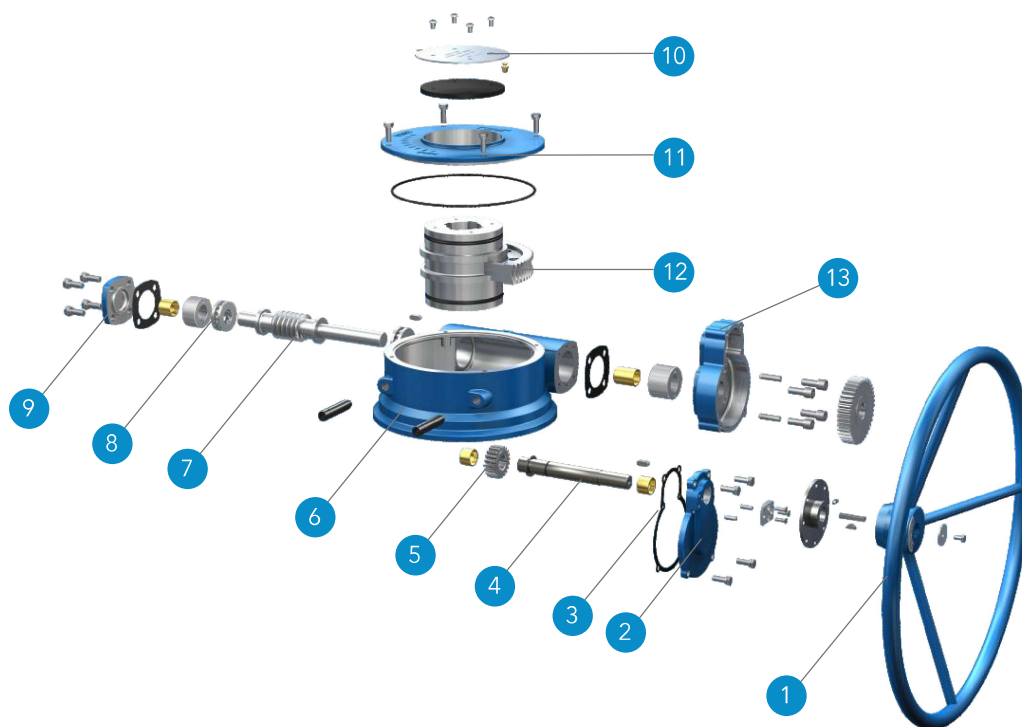


Features:

- Welding hand wheel
- WCB housing
- Ductile iron quadrant
- Locking device
- Travel range: 0°~90° (±5° adjustment)
- IP67
- Standard temperature range: -20°C~120°C

Options:

- LCB housing
- Stainless steel housing
- Stainless steel input shafts and fasteners
- IP68
- Namur switch connection
- Low temperature: -46°C
- High temperature: +200°C
- Bronze quadrant
- Buried application



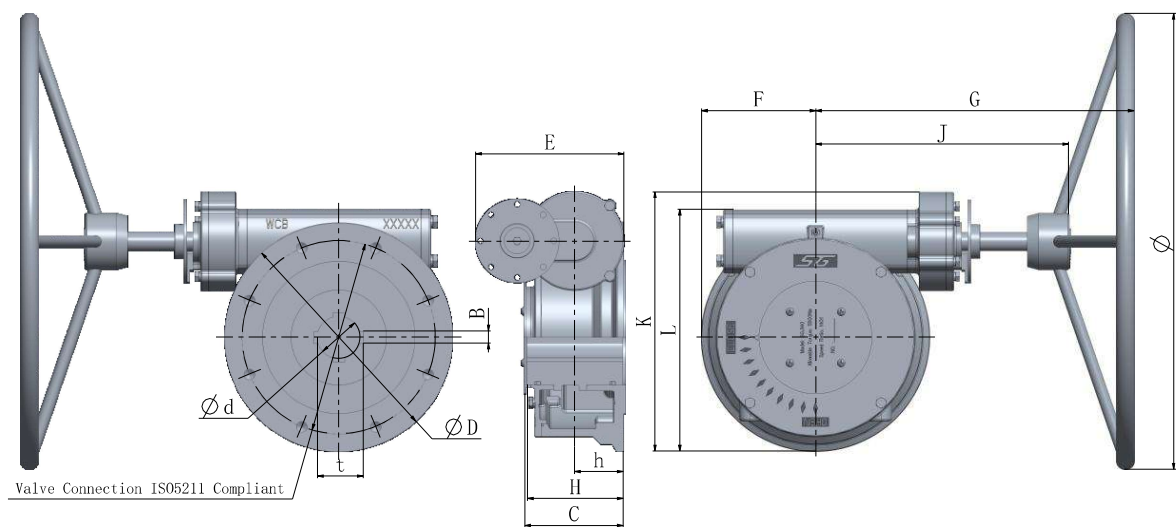
Material Specification

No.	Part name	Material				
		GB	ASTM/AWS	DIN	BS	ISO
1	Hand wheel	Q235A	A570 Gr.A	S235JR	S235JR	Fe 360A
2	Secondary Coverplate	ZG280-520	WCB	GS-20Mn5	GP280GH	C26-52
3	Seal	NBR				
4	Input shaft	45	1045	C45E CK45	C45E 080M46	C45E4
5	Gear	45	1045	C45E CK45	C45E 080M46	C45E4
6	Body	ZG280-520	WCB	GS-20Mn5	GP280GH	C26-52
7	Worm	45	1045	C45E CK45	C45E 080M46	C45E4
8	Bearing	Tapered Roller Bearings / Thrust Ball Bearing				
9	Side Cover	ZG280-520	WCB	GS-20Mn5	GP280GH	C26-52
10	Position Indicator	1Cr17Mn6Ni5n	321	X12CrMnNi17-7-5		
11	Coverplate	QT450-10	65-45-12	420/12		450-10
12	Quadrant	QT500-7	88-55-06	GGG-50	500/7	500-7
13	Secondary Body	ZG280-520	WCB	GS-20Mn5	GP280GH	C26-52

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%)
SGJ30	30:1	110	1000	30	9.1
SGJ50	50:1	100	1400	28	14.0
SGJ80	80:1	115	2500	27	21.7
SGJ70	70:1	200	4500	32	22.5
SGJ140	140:1	145	5600	28	38.6



SGJ series cast steel gearbox Dimensions

Model	ϕD	Valve Connection	Max Stem Diameter	B	t	h	H	C	E	F	G	J	K	L	ϕHW
SGJ30	$\phi 158$	F10	$\phi 30$	8	33.3	35	84	87.5	/	90.5	230	203	192	175.5	$\phi 300$
	$\phi 158$	F12	$\phi 30$	8	33.3	46	95	98.5	/	90.5	230	203	192	175.5	$\phi 300$
	$\phi 175$	F14	$\phi 30$	8	33.3	48.5	97.5	101	/	90.5	230	203	200.5	184	$\phi 300$
SGJ50	$\phi 180$	☆F10	$\phi 45$	14	48.8	40.5	96	99.5	/	94.1	227.3	200.3	220	203.5	$\phi 300$
	$\phi 180$	F12	$\phi 45$	14	48.8	40.5	96	99.5	/	94.1	227.3	200.3	220	203.5	$\phi 300$
	$\phi 180$	F14	$\phi 45$	14	48.8	40.5	96	99.5	/	94.1	227.3	200.3	220	203.5	$\phi 300$
SGJ80	$\phi 248$	☆F12	$\phi 54$	16	58.3	57	115	118.5	/	124	321	287	299	284	$\phi 400$
	$\phi 248$	F14	$\phi 54$	16	58.3	57	115	118.5	/	124	321	287	299	284	$\phi 400$
	$\phi 248$	F16	$\phi 54$	16	58.3	57.5	115.5	119	/	124	321	287	299	284	$\phi 400$
SGJ70	$\phi 260$	F16	$\phi 85$	22	90.4	52	114.5	118	/	130	545	332	311	296	$\phi 705$
	$\phi 300$	F25	$\phi 85$	22	90.4	63	125	128.5	/	150	545	332	331	316	$\phi 705$
SGJ140	$\phi 260$	F16	$\phi 85$	22	90.4	52	114.5	118	195	130	418.7	332.7	321	296	$\phi 600$
	$\phi 300$	F25	$\phi 85$	22	90.4	63	125	128.5	195	150	418.7	333.7	341	316	$\phi 600$

Note: 1. "☆" means that this flange cannot be machined flange spigot.
2. SGJ140 is a two-stage gearbox.