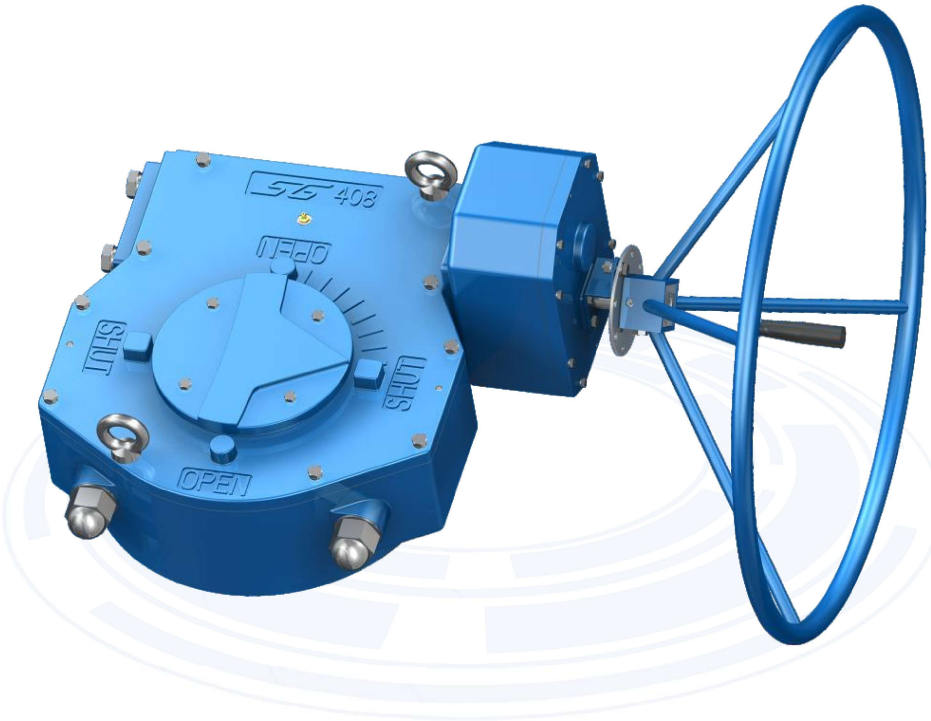
S008 Series

Ductile Iron Gearbox

Currently the hottest part-turn gearbox. Ideally suited to part-turn valves such as ball, butterfly and plug valves, they are robust and reliable while being cost-optimised. Suitable for service water, gas, petroleum, chemical, power and other demanding industrial valve applications.
Torque range: 720Nm~250000Nm
16 sizes. Ratios from: 42:1 to 9880:1

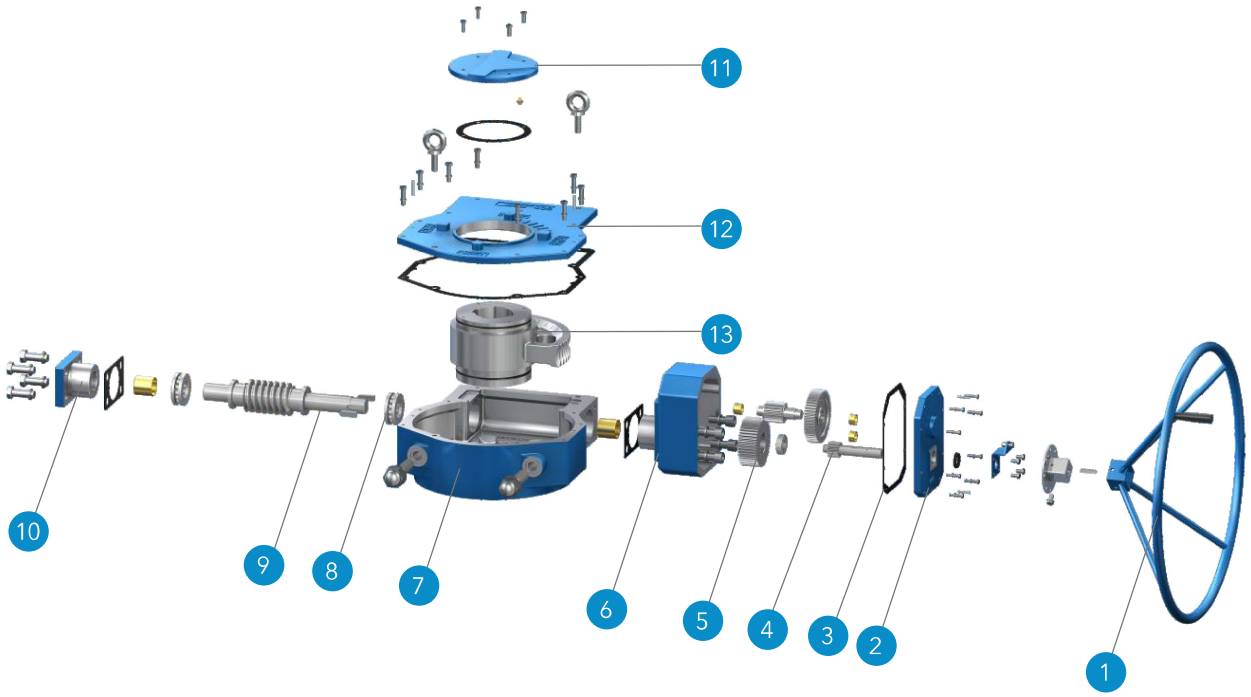


Features:

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

Options:

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



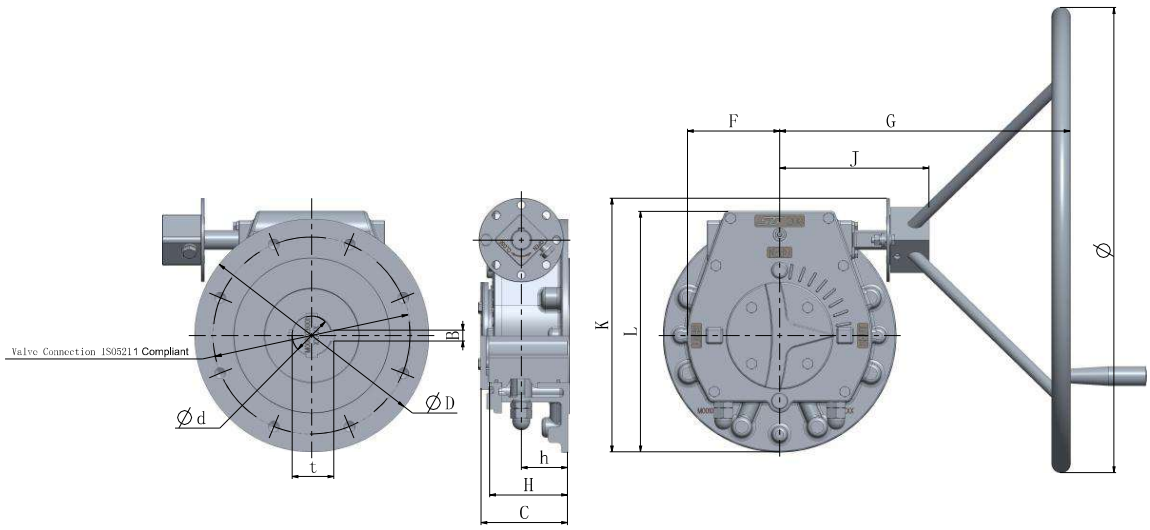
Material Specification

No.	Part name	Material				
		GB	ASTM/AWS	DIN	BS	ISO
1	Hand wheel	Q235A	A570 Gr.A	S235JR	S235JR	Fe 360A
2	Secondary Coverplate	QT450-10	65-45-12		420/12	450-10
3	Seal			NBR		
4	Input shaft	45	1045	C45E CK45	C45E 080M46	C45E4
5	Gear	45	1045	C45E CK45	C45E 080M46	C45E4
6	Secondary Body	QT450-10	65-45-12		420/12	450-10
7	Body	QT450-10	65-45-12		420/12	450-10
8	Bearing			Ball thrust bearing		
9	Worm	45	1045	C45E CK45	C45E 080M46	C45E4
10	Side Cover	QT450-10	65-45-12		420/12	450-10
11	Position Indicator	HT250	No.35 No.40	GG25	Grade 260	250
12	Coverplate	QT450-10	65-45-12		420/12	450-10
13	Quadrant	QT500-7	88-55-06	GGG-50	500/7	500-7

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

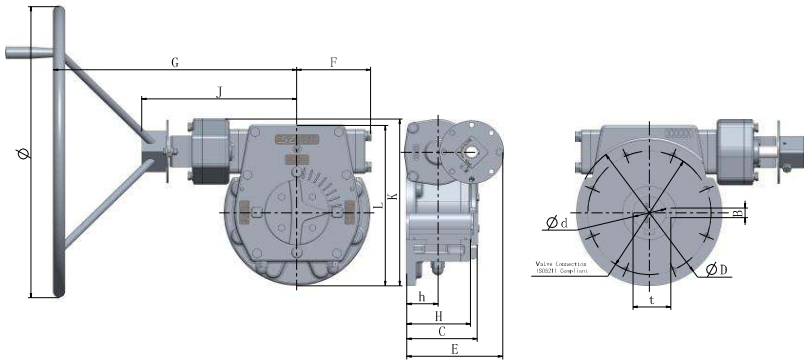
Model	Ratio	Input Torque (Nm)	Output Torque (Nm)	Efficiency(%)	M.A.(±10%)
S007	42:1	80	720	21	9.0
S008	50:1	110	1200	22	10.9
S108	72:1	130	2000	21	15.4
S158	70:1	150	2500	24	16.7
S208	68:1	210	3300	23	15.7
S218	78:1	206	4475	28	21.7
S238	175:1	170	6250	21	36.8
S308	275:1	150	9800	24	65.3
S358	532:1	170	18000	20	105.9
S408	700:1	190	32000	24	168.4
S448	1233:1	165	42000	21	254.5
S508	1254:1	190	60000	25	315.8
S608	1855:1	190	80000	23	421.1
S708	2292:1	190	100000	23	526.3
S808	3525:1	190	150000	22	789.5
S908	9880:1	120	250000	21	2083.0



S008 Series Ductile Iron Gearbox Dimensions

Model	ΦD	Flange	dmax	B	t	h	H	C	F	G	J	K	L	Φ
S007	Φ150	F10	Φ38	10	41.3	39	82	91.5	78.8	241	164	198.5	176	Φ465
	Φ150	F12	Φ38	10	41.3	39	82	91.5	78.8	241	164	198.5	176	Φ465
S008	Φ150	☆F10	Φ45	14	48.8	41.5	77.5	86.5	77.5	244	167	210	184	Φ465
	Φ150	F12	Φ45	14	48.8	41.5	77.5	86.5	77.5	244	167	210	184	Φ465
	Φ175	F14	Φ45	14	48.8	46.5	82.5	91.5	77.5	244	167	219	192.5	Φ465
	Φ210	F16	Φ45	14	48.8	50.5	86.5	95.5	77.5	244	167	236.5	210	Φ465
S108	Φ175	F14	Φ54	16	58.3	46	82	91	87.5	351	169	233	212	Φ600
	Φ210	F16	Φ54	16	58.3	51.5	86	95	87.5	351	169	249	228	Φ600
S158	Φ210	☆F12	Φ60	18	64.4	51	100	109.5	115	379	197	275.5	262	Φ600
	Φ210	F14	Φ60	18	64.4	51	100	109.5	115	379	197	275.5	262	Φ600
	Φ210	F16	Φ60	18	64.4	51	100	109.5	115	379	197	275.5	262	Φ600
S208	Φ210	☆F14	Φ85	22	90.4	59.5	100.5	111.5	119	396.5	191.5	298	281	Φ750
	Φ210	F16	Φ85	22	90.4	59.5	100.5	111.5	119	396.5	191.5	298	281	Φ750
	Φ300	F25	Φ85	22	90.4	59.5	100.5	111.5	119	396.5	191.5	310	237	Φ750
S218	Φ210	☆F14	Φ85	22	90.4	59	100.5	115	135	410	205	312.75	296.75	Φ750
	Φ210	F16	Φ85	22	90.4	59	100.5	115	135	410	205	312.75	296.75	Φ750
	Φ300	F25	Φ85	22	90.4	59	100.5	115	135	410	205	339.75	323.75	Φ750

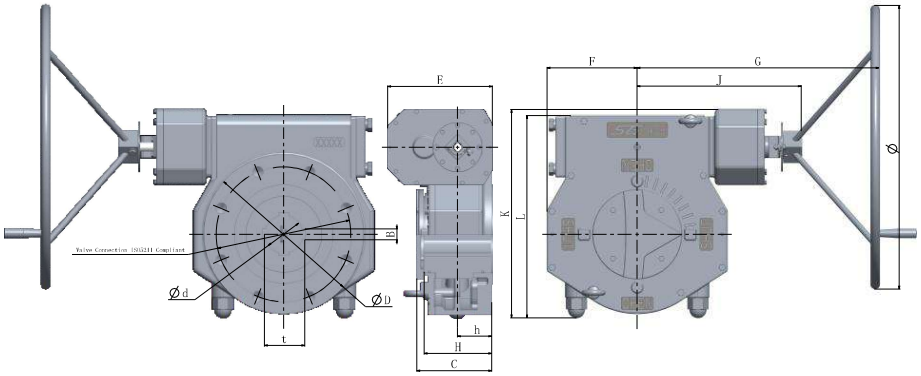
Note: "☆" means that this flange cannot be machined flange spigot.



S008 Series Ductile Iron Gearbox Dimensions

Model	ΦD	Valve Connection	Max Stem Diameter	B	t	h	H	C	E	F	G	J	K	L	ΦHW
S238	Φ300	☆F14 F16 F25	Φ83	22	88.4	65.5	129.5	138.5	199	150	503	321	339	325	Φ600
S308	Φ340	☆F16 F25 F30	Φ100	28	106.4	74.5	151	165	229.5	173.25	544	339	413.5	391.5	Φ750

Note: "☆" means that this flange cannot be machined flange spigot.



S008 Series Ductile Iron Gearbox Dimensions

Model	ΦD	Valve Connection	Max Stem Diameter	B	t	h	H	C	E	F	G	J	K	L	ΦHW
S358	Φ350	F25	Φ120	32	127.4	88	180	192	262	192.8	602.3	396.3	442.3	424	Φ750
	Φ350	F30	Φ120	32	127.4	88	180	192	262	192.8	602.3	396.3	442.3	424	Φ750
S408	Φ415	☆F25	Φ150	36	158.4	90	178	198	276	238	638	433	551	535	Φ750
	Φ415	F30	Φ150	36	158.4	90	178	198	276	238	638	433	551	535	Φ750
	Φ415	F35	Φ150	36	158.4	90	178	198	276	238	638	433	551	535	Φ750
	Φ475	F40	Φ150	36	158.4	119.5	207.5	227.5	276	232.4	638	433	567.5	551.5	Φ750
S448	Φ415	F30	Φ150	36	158.4	84	178	192	353	239	671	466	575	537	Φ750
	Φ415	F35	Φ150	36	158.4	84	178	192	353	239	671	466	575	537	Φ750
	Φ475	F40	Φ150	36	158.4	106	207.5	214	353	239	671	466	586.5	548.5	Φ750
S508	Φ475	☆F35	Φ220	50	231.4	120.5	241.5	255.5	369	300.3	718.8	513.8	675.7	653.7	Φ750
	Φ475	F40	Φ220	50	231.4	120.5	241.5	255.5	369	300.3	718.8	513.8	675.7	653.7	Φ750
S608	Φ560	☆F40	Φ240	56	252.4	135	271	286	520	345.55	788	583	813.7	758.7	Φ750
	Φ560	F48	Φ240	56	252.4	135	271	286	520	345.55	788	583	813.7	758.7	Φ750
S708	Φ560	☆F40	Φ240	56	252.4	140	281	296	520	395.8	839.3	634.3	902.7	853.7	Φ750
	Φ560	F48	Φ240	56	252.4	140	281	296	520	395.8	839.3	634.3	902.7	853.7	Φ750
S808	Φ686	☆F48	Φ280	63	292.4	143	313	331	393	470	927	722	1074	1042	Φ750
	Φ686	F60	Φ280	63	292.4	143	313	331	393	470	927	722	1074	1042	Φ750
S908	Φ686	F60	Φ237	50	261.5	242	400.5	406.5	560	430	1120	983.5	1056	936	Φ1000

Note: "☆" means that this flange cannot be machined flange spigot.