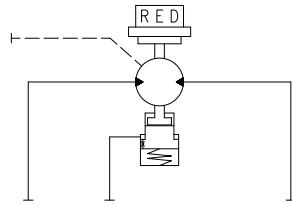


CS Series

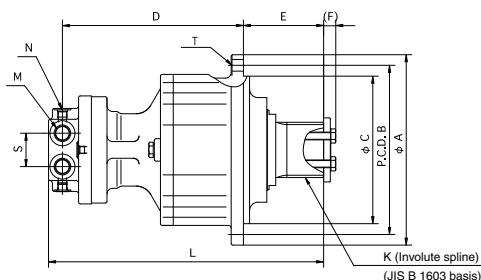
- **Main Application** / Slew motor for cranes
- **Features**
 - Shaft rotation type
 - Compact design



CS09B

Specifications		CS04	CS05A	CS09B
Max. Output Torque	N-m	2,940	3,920	8,630
	(kgf-m)	(300)	(400)	(880)
Max. Output Speed	min ⁻¹	90	56	60
Gear Ratio	1/R	max. 71	max. 87.4	max. 56.173
Max. Working Pressure	MPa	24.5	20.6	31.4
	(kgf/cm ²)	(250)	(210)	320
Max. Motor Displacement	cm ³ /rev	27	23.6	55.8
Max. Motor Speed (Small Displ.)	min ⁻¹	3,200	3,300	2,100
Motor Parking Brake Torque	N-m	64.7	64.7	257
	(kgf-m)	(6.6)	(6.6)	(26.2)
Unit Weight	kg	45	59	109

Dimensions



	CS04	CS05A	CS09B
A	280	306	342
B	238	268	304
C	175	230	265
D	276	263	367.5
E	104	120	144
(F)	19	20	22
K	65X24X2.5	75X28X2.5	90X22X3.75
L	405	408	533.5
M	2-G3/4	2-G3/4	2-G1/2
N	G1/4	G1/4	G3/8
S	50	50	60
T	6-φ18	8-φ21	12-φ21

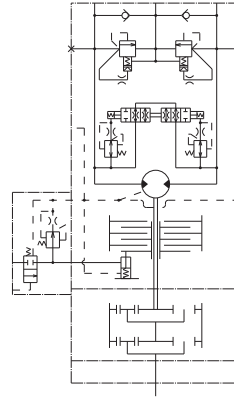
SG

Main application

Swing unit for excavator and other construction machinery

Features

1. Light weight, compact design
 - Integral structure of cylinder block and shaft, support of the male shaft on motor cover
2. Quiet Operation
 - Highly rigid integral structure of cylinder block and shaft
3. High efficiency, excellent self-priming capability
 - Optimal hydraulic balance of valve plate enlarged oil passage.
 - Radial layout of pistons can achieve the high efficiency and high self-priming capability.
4. Improved fine operation
 - Decreasing leakage amount at low pressure and improving the start efficiency enables to improve the fine operation.
5. Abundant Optional functions.

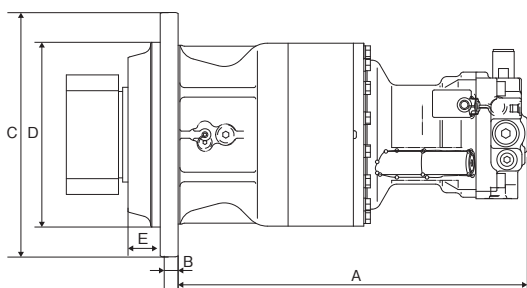


SG08E

Specification		SG010E	SG015E	SG025E	SG04E		SG08E	SG20E	SG25E
Swing motor Model		MFC20	MFC40		MFC65	MFC80	MFC160	MFC250	MFC250
Reduction gear Model		RG010S	RG015S	RG025S	RG04S	RG04S	RG08S	RG20S	RG25S
Motor displacement	cm ³ /rev	22	39.1	45.5	64.3	79.2	151	250	250
Max. pressure	MPa	20.6	20.6	27.5	34.3	34.3	34.3	34.3	34.3
Gear ratio		16.56	14.36	19.5	17.03		19.6	22.0	19.6
Max. output torque	N·m	690	1,560	2,520	4,260	4,610	9,830	19,740	20,010
Function	Anti swing-back	○	○	○	○	○	○	○	○
	Shockless relief	○	○	○	○	○	○	○	○
	Supershockless relief	○	○	○	○	○	○	○	○
	Time delay valve	○	○	○	○	○	○	○	○
Lugricating method of reduction gear	Hydraulic Oil	○	○	○	×	×	×	×	×
	Gear oil	×	○	○	○	○	○	○	○
Unit weight	kg	32	47.5	67	96	104	230	360	410
Applicable excavator weight	ton	4~6	6~8		8~12	12~16	16~25	36~	

Outline dimensions

	SG010E	SG015E	SG025E	SG04E		SG08E	SG20E	SG25E
A	230	270	397	430	460	615	783.5	798.5
B	20	20	20	25	25	30	35	35
C	240	248	288	323	323	410	480	480
D	150	175	200	200	200	290	350	350
E	28	32	31.5	38	38	54	61	64.5



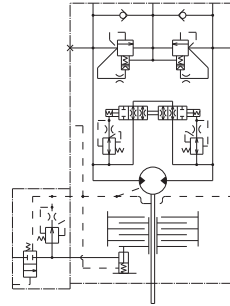
MFC

Main application

Swing motor for excavator and other construction machinery

Features

1. Light weight, compact design
 - Integral structure of motor housing and cover of a reduction gear box [MFC20-160]
 - Integral structure of cylinder block and shaft, support of the male shaft on motor cover
2. Quiet Operation
 - Highly rigid integral structure of cylinder block and shaft
3. High efficiency, excellent self-priming capability
 - Optimal hydraulic balance of valve plate enlarged oil passage.
 - Radial layout of pistons can achieve the high efficiency and high self-priming capability.
4. Improved fine operation
 - Decreasing leakage amount at low pressure and improving the start efficiency enables to improve the fine operation.
5. Abundant Optional functions.



MFC

Specification		MFC20	MFC40	MFC65	MFC80	MFC160	MFC200	MFC250
Motor displacement	cm ³ /rev	22	45.5	64.3	79.2	151	187	250
Max. pressure	MPa	20.6	27.5	34.3	34.3	34.3	34.3	34.3
Max. speed	min ⁻¹	3,000	2,500	2,150	2,000	1,600	1,500	1,350
Max. output torque	N·m	62	173	305	375	716	888	1,187
Function	Anti swing-back	○	○	○	○	○	○	○
	Shockless relief	○	○	○	○	○	○	○
	Supershockless relief	○	○	○	○	○	○	○
	Time delay valve	○	○	○	○	○	○	○
Unit weight	kg	15	20	26	33	45	58	77
Applicable excavator weight	ton	4~6	6~8	8~12	12~16	16~25	25~36	36~

Outline dimensions

	MFC20	MFC40	MFC65	MFC80	MFC160	MFC200	MFC250
A	139	238	248	266	319	332	383
B	188	195	224	222	247	278	328
C	147	217	264	264	307	370	284

