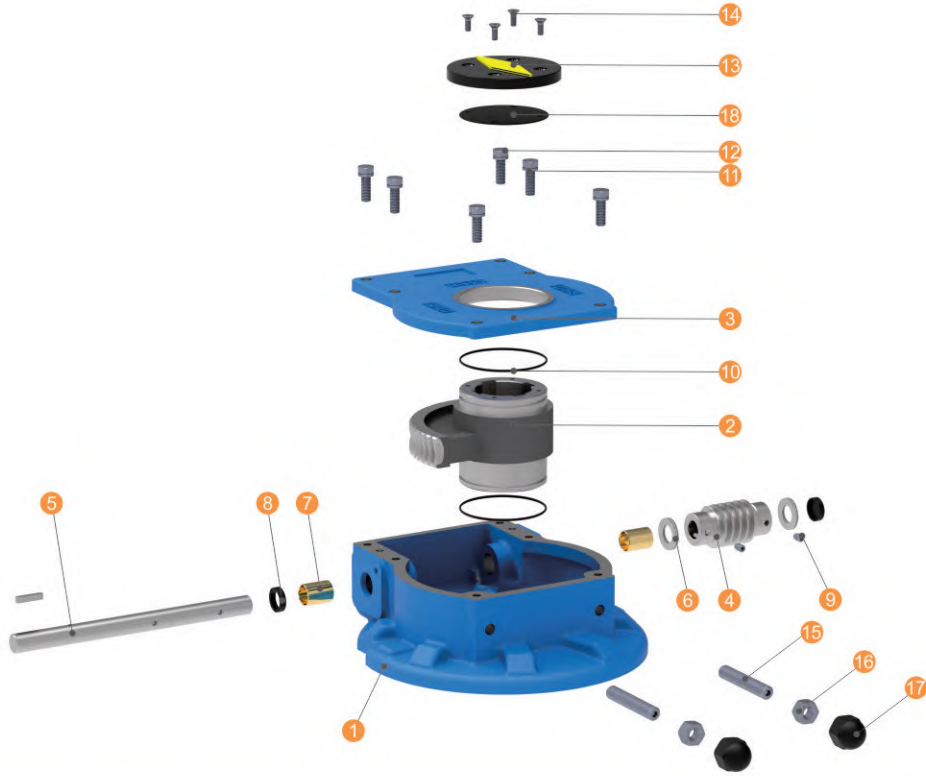


EM SERIES GEARBOX



- This series of models, from the EM10-EM100, is a 90° partial-turn manual drive for ball, butterfly, plug valves and other 90° swivel drives.
- The standard material of the box is made of gray cast iron. It can be supplied with ductile iron and stainless steel or carbon steel according to customers' request.
- The flange of the valve is in accordance with the ISO5211 standard, and can also be customized according to the customer's products.
- Can be supplied with ductile iron casting handwheel, stamping handwheel and carbon steel welding handwheel according to customers' request.
- Stroke angle 0-90° ($\pm 5^\circ$ adjustable)
- Temperature range: -20°C - 120°C .

EM Series Transmission Parts List



Parts List and Materials

No.	Part Name	Standard Material	Optional Material
1	Gear Housing	Cast Iron(ASTM A48 No.30A)	Ductile Iron (ASTM A536 65-45-12)
2	Worm Gear	Ductile Iron(ASTM A536 80-55-06)	-
3	Cover	Cast Iron(ASTM A48 No.30A)	Ductile Iron (ASTM A536 65-45-12)
4	Worm	Cast Iron(ASTM A29 1045)	42CrMo
5	Input Shaft	Cast Iron(ASTM A29 1045)	SS304/17-4
6	Bearing	Hardened Steel	-
7	Bushing	SF-1	SS304/SS316
8	Oil Seal	NBR	Fluorine Rubber
9	Fixing Screws	Carbon Steel	SS304/SS316
10	O-ring	NBR	Fluorine Rubber
11	Spring Washer	Carbon Steel	SS304/SS316
12	Bolt	Carbon Steel	SS304/SS316
13	Position Indicator	ABS	SS304/SS316/Aluminum
14	Screw	Carbon Steel	SS304/SS316
15	Limit Bolt	Carbon Steel	SS304/SS316
16	Limit Nut	NBR	Fluorine Rubber
17	Nut Seal	Carbon Steel	SS304/SS316
18	Worm Wheel Sealing Plate	Carbon Steel	SS304/SS316

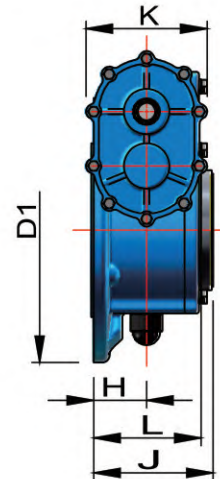
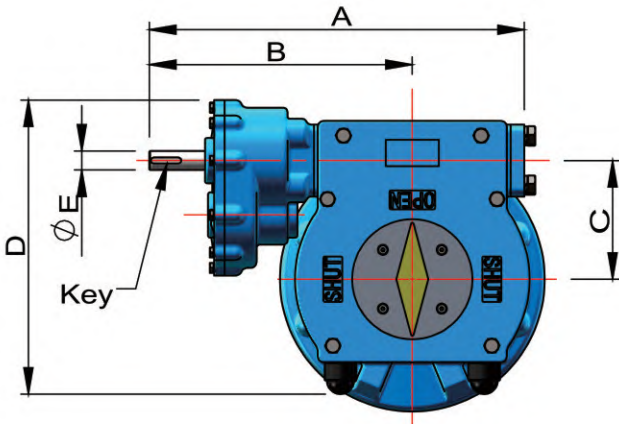
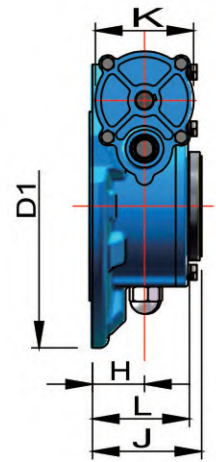
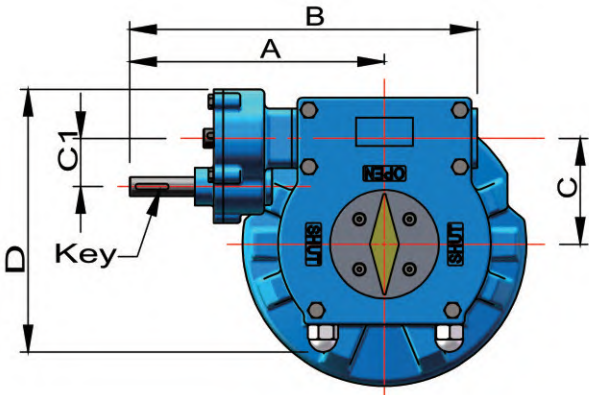
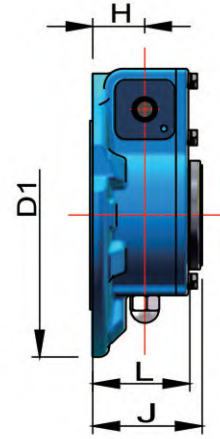
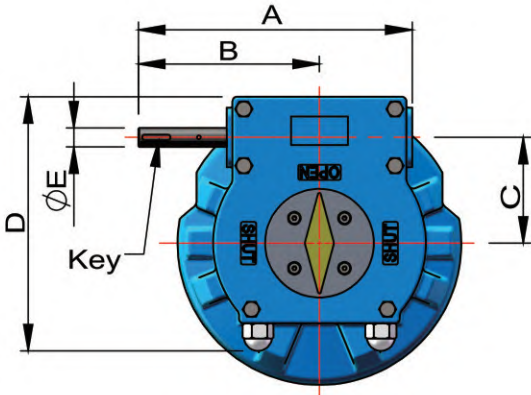
Company Profile

Resilient Seated Butterfly Valve

Double Eccentric High Performance Butterfly Valve

Turbine Actuator

Pneumatic Actuator

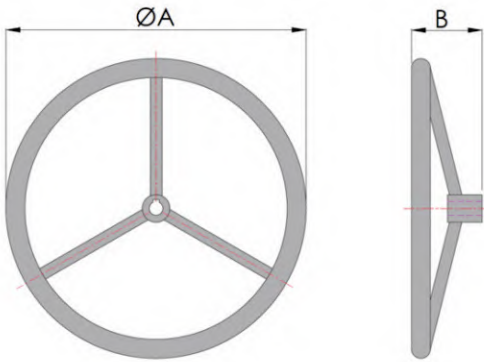


Size Data(inch)

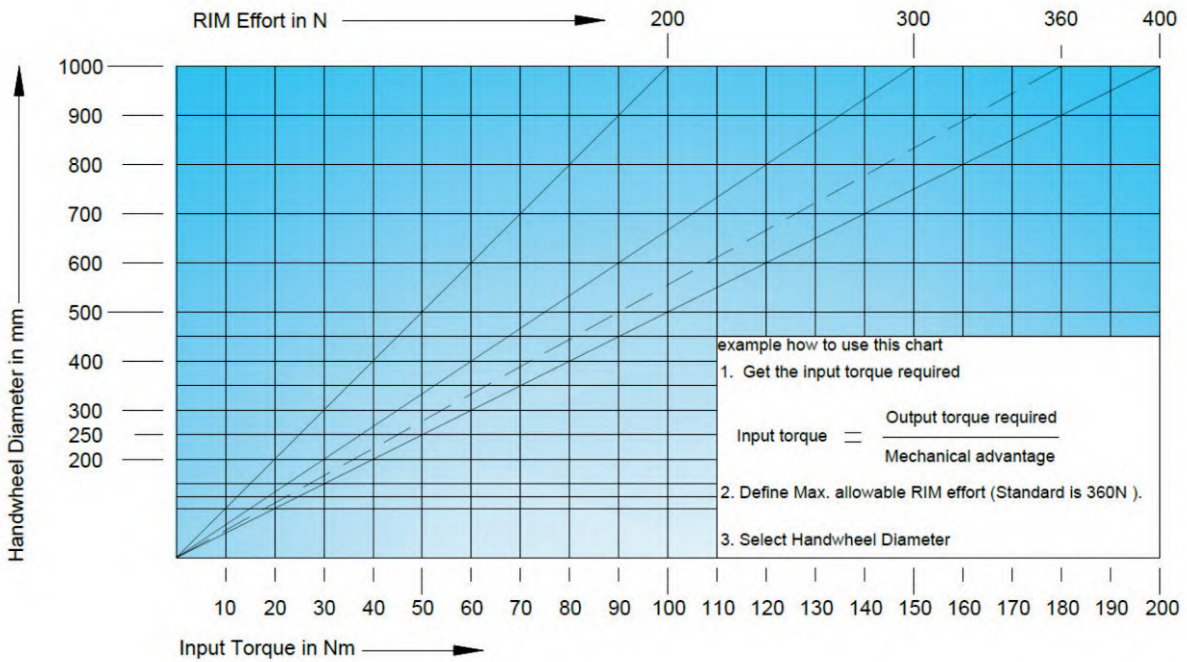
Types	Mod.	A	B	C	C1	D	E	H	J	K	Key	Pin
Type A	Em10	9.02	7.01	2.09	--	5.75	0.63	1.14	2.28	--	0.24	0.24
	EM20	12.05	10.04	2.09	--	6.18	0.63	1.50	2.68	--	0.24	0.31
	EM30	14.57	12.01	2.83	--	7.95	0.75	1.54	3.43	--	0.24	0.39
	EM40	15.67	12.09	4.06	--	10.83	0.75	1.77	4.02	--	0.24	0.47
	EM50	15.98	12.13	5.12	--	12.99	0.98	2.40	5.04	--	0.24	0.63
Type B	EM40/BR2.5	18.66	15.00	4.06	2.01	11.22	0.75	1.77	4.02	4.09	0.24	0.47
	EM50/BR3.2	19.09	15.04	5.12	2.01	13.39	0.98	2.40	5.04	4.09	0.24	0.63
	EM60/BR5	18.43	12.60	6.18	3.54	16.22	0.98	2.76	6.02	8.35	0.31	0.63
	EM70/BR6	22.01	14.92	7.17	3.54	16.69	0.98	2.80	6.14	8.35	0.31	0.63
Type C	EM80/BR8	22.83	16.14	8.27	--	17.87	0.98	2.76	6.14	6.30	0.31	0.79
	EM90/BR9	27.36	20.00	8.66	--	21.85	1.38	3.74	7.48	9.21	0.31	0.94
	EM100/BR16	33.62	23.62	12.01	--	27.56	1.38	4.13	8.66	10.63	0.31	0.94

Technical Data

Types	Mod.	Ratio	Max. Stem Dia.	Input Torque	Max. Output Torque	M.A ± 10%	Flange No.	L (Max.)	Handle wheel
				in-lbs	in-lbs				
Type A	Em10	37:1	1.10	310	2921	9.4	F07	2.17	7.87
	EM20	37:1	1.10	354	4425	12.5	F10/F12	2.36	11.81
	EM30	34:1	1.77	797	8850	11	F12/F14	2.95	15.75
	EM40	55:1	2.17	2036	26550	13	F14/F16	3.54	23.62
	EM50	52:1	2.56	2655	35400	13.3	F16/F25	4.33	31.50
Type B	EM40/BR2.5	137:1	2.17	779	26550	34	F14/F16	3.54	23.62
	EM50/BR3.2	166:1	2.56	1195	48675	40	F16/F25	4.33	23.62
	EM60/BR5	290:1	3.15	841	84075	63	F20/F25	5.51	23.62
	EM70/BR6	372:1	3.54	974	110625	73	F25/F30	5.91	23.62
Type C	EM80/BR8	519:1	3.94	1328	177000	133	F30/F35	7.09	27.56
	EM90/BR9	702:1	5.51	1239	265500	150	F35/F40	7.48	27.56
	EM100/BR16	1408:1	7.09	1593	398250	274	F40/F48	8.66	27.56



Model	ØA mm/Inch	B
F150	Ø150(6")	2.95
F200	Ø200(8")	2.95
F300	Ø300 (12")	2.63
F400	Ø400(16")	2.79
F500	Ø500(20")	5.91
F600	Ø600(24")	6.38
F700	Ø700(28")	9.06
F800	Ø800(32")	9.06
F900	Ø900(36")	9.06
F1000	Ø1000(40")	9.06



EM SERIES GEARBOX

