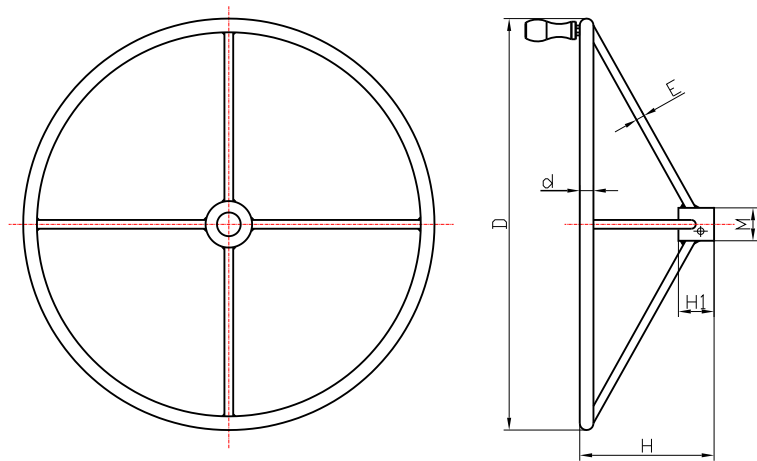
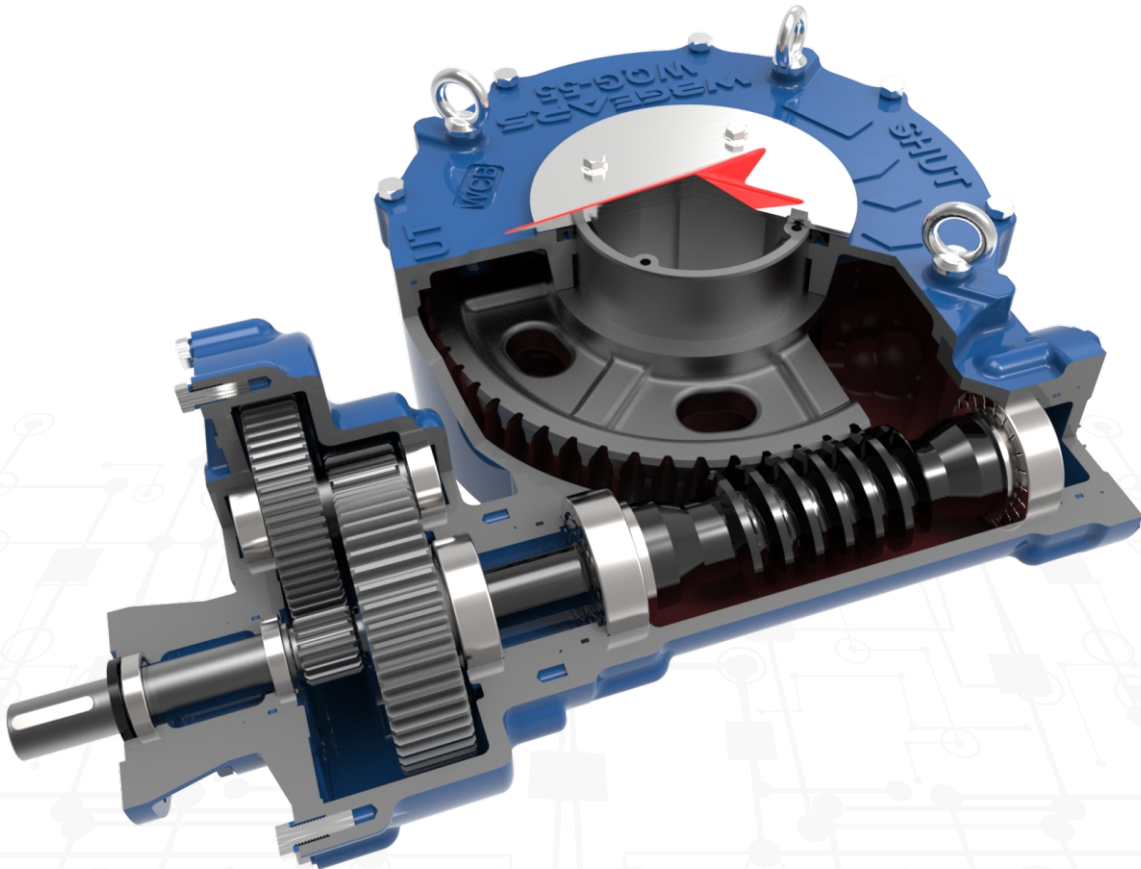
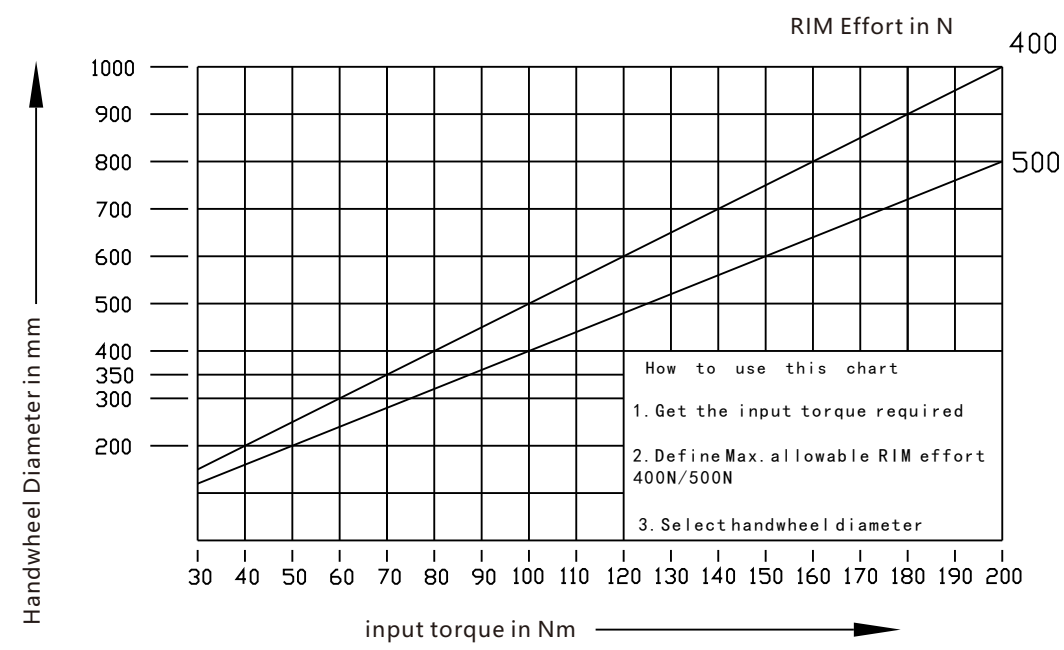
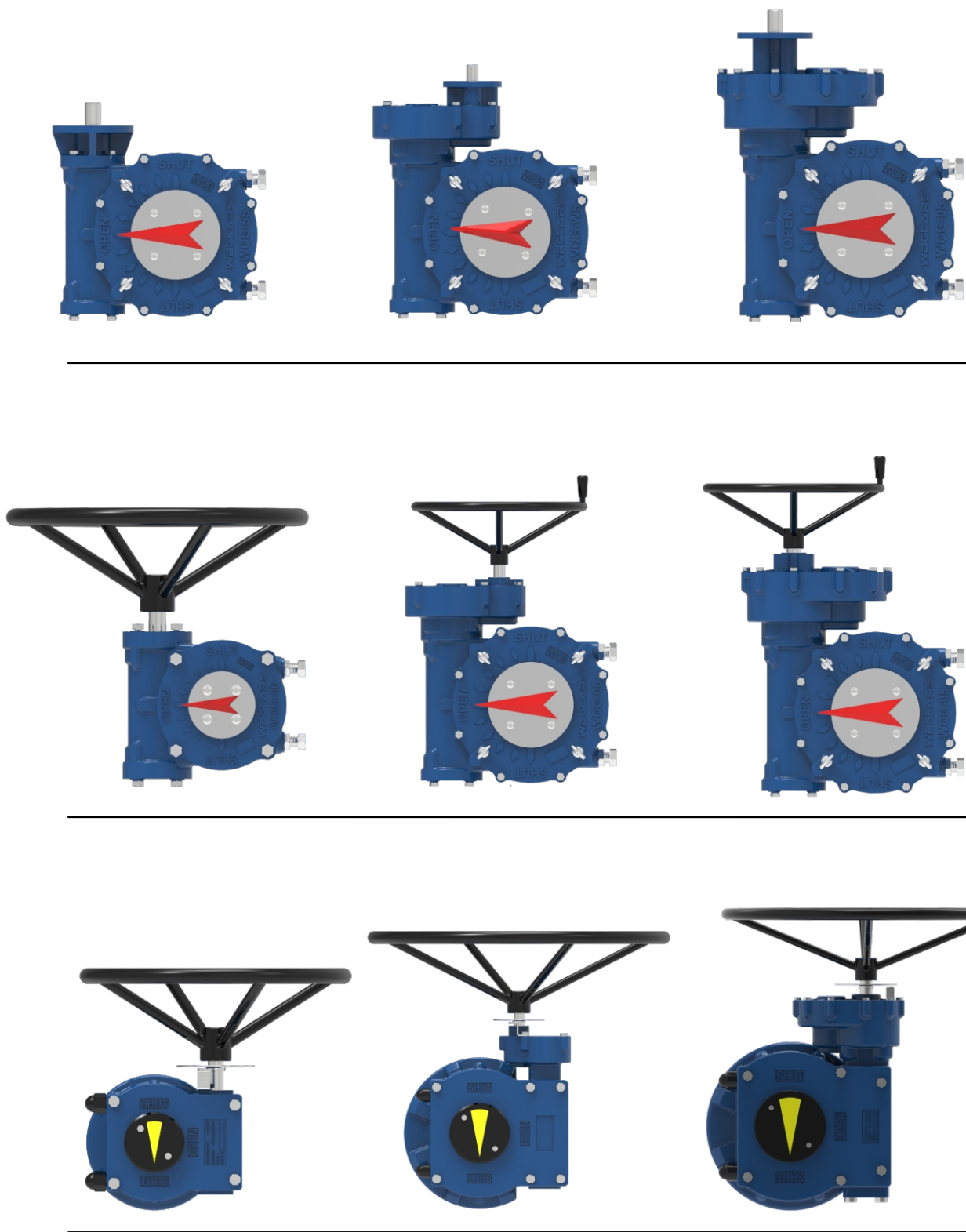




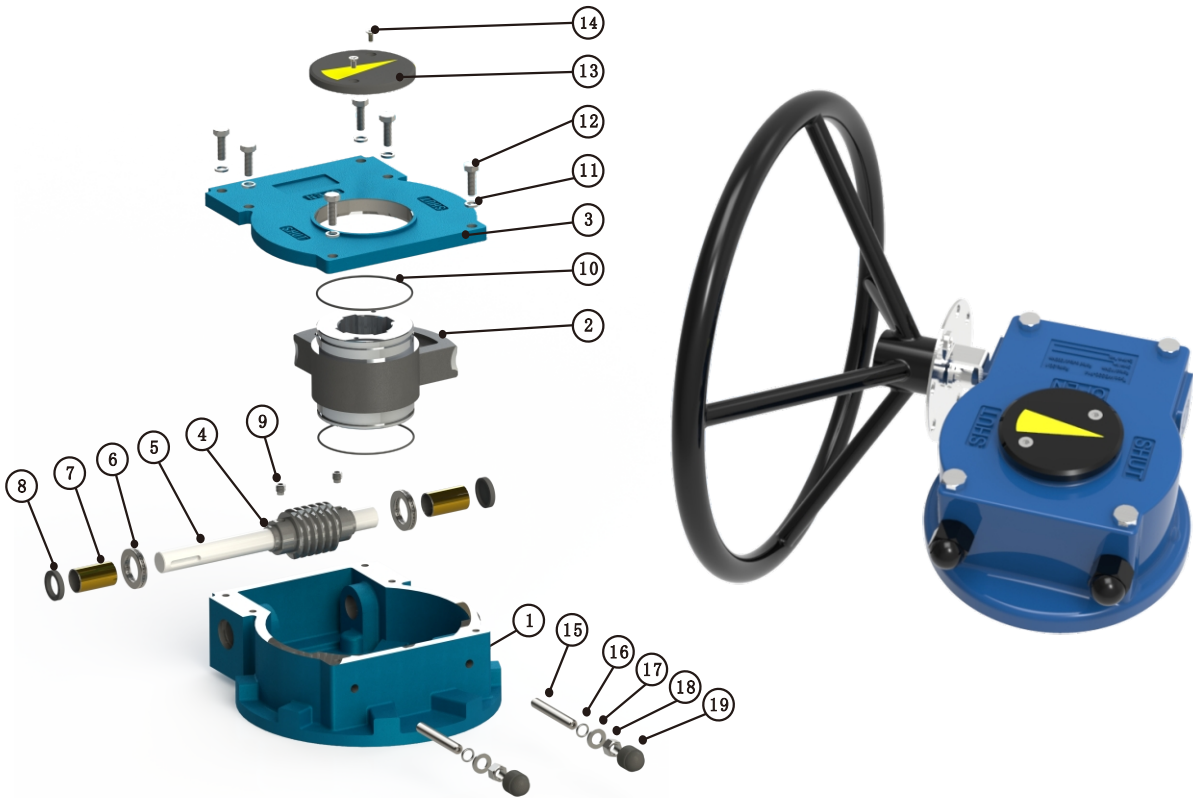
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Ø700	25	16	150	70	50
Ø600	25	16	145	70	50
Ø500	25	16	140	40	40
Ø400	20	16	130	40	40
Ø350	20	16	115	40	40
Ø300	20	16	105	30	40
Ø200	16	16	65	30	30



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NOTE: due to the company' s policy of continuous improvement,
WBGears reserves the right to change specification details without prior notice



Material specification			
No.	Part name	Material	
		Material	Material description
1	Gearbox	Ductile Iron	ASTM A536 65-45-12
2	Worm gear	Ductile Iron	ASTM A536 65-45-12
3	Cap	Ductile Iron	ASTM A536 65-45-12
4	Worm	Carbon steel	C45/ASTM A29 1045
5	Worm shaft	Carbon steel	C45/ASTM A29 1045
6	Bearing	Hardened Steel	-
7	Bushing	SF-1	-
8	Oil seal	NBR	-
9	Set-screw	Carbon steel	-
10	O-ring	NBR	-
11	Spring washer	Carbon steel	-
12	Bolt	Carbon steel	-
13	Position indicator	ABS	-
14	Screws	Carbon steel	-
15	Limit s topbolt	Carbon steel	-
16	O-ring	NBR	-
17	Washer	Carbon steel	-
18	Limit stop Nut	Carbon steel	-
19	screw cap	ABS	-

MBS Series

The MBGEARS Series 'MBS' quarter-turn gear operators are rugged, industrial grade products manufactured with ductile iron.

Application

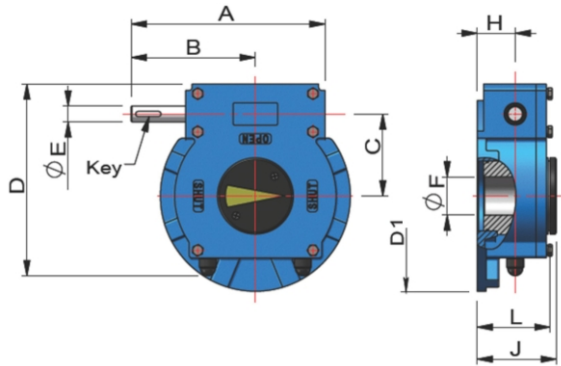
MBGEARS MQG-D series operator are quarter-turn devices intended for the operation of ball, plug and butterfly valves. The gearboxes are suitable for manual application.

Features

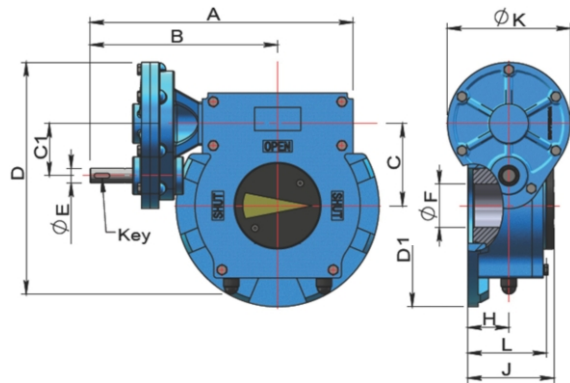
- Padlockable handwheel
- Protected steel input shaft
- 12 models up to 16000NM in output
- Enclosure: IP67
- Temperature : -20°C ~ 120°C
- Stroke : 0-90° (±5° adjustable)



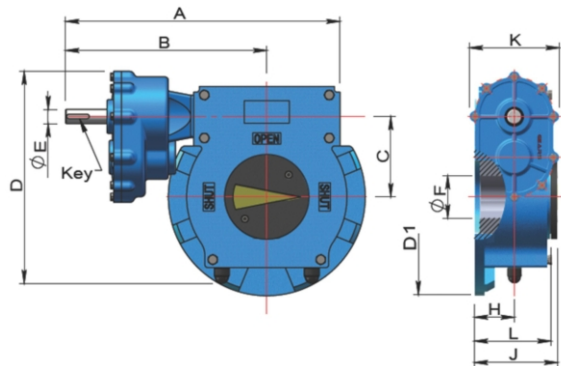
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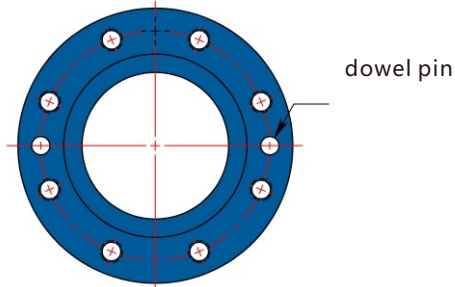
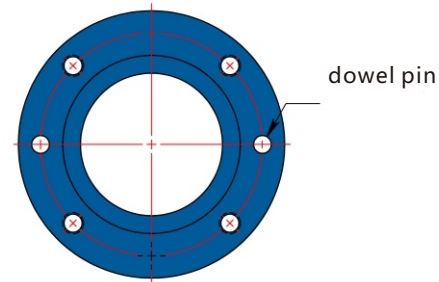
TYPE:B



TYPE:C



▪ The MBGEARS gearboxes are virtually maintenance-free. without visual grease leakage, neither grease change nor seal replacement nor relubrication is not required.



MBS Series

T Y P E	TECHNICAL DATA						APPEARANCE SIZE														
	Model	Ratio	Max. Stem Dia.	output	input	M.A. ±15%	Flange	D1	L max	A	B	C	C1	D	E	H	J	K	Key	hand wheel	
				torque Nm																	
A	MBS20	37:1	28	330	30	11	F07	90	57	185	134	52	-	140	15	29	64	-	6	200	
							F10	125													
	MBS21	38:1	36	850	75	11	F10	125	68	200	142	62	-	162	15	36	74	-	6	300	
							F12	150	63	200	142					31	69				
							F14	175	73	216	150					41	79				
	MBS30	40:1	45	1350	113	12	F14(F12)	175	85	219	152	79	-	202	20	46	93	-	6	350	
							F16	210		235	160										
	MBS55	47:1	55	2000	142	14	F14	175	91	241	163	89	-	223	20	50	99	-	6	400	
							F16	210													
	MBS88	61:1	65	3000	164	18	F16	210	105	290	192	112	-	267	20	55	115	-	6	500	
							F20	260													
							F25	300													
B	MBS88-BR2.5	130:1	65	4000	121	33	F16	210	105	367	269	112	51	276	20	55	115	104	6	500	
							F20	260													
							F25	300													
	MBS195-BR2.5	130:1	80	5000	151	33	F16	210	117	391	281	129	51	307	20	62	125	104	6	600	
							F20	260													
							F25	300													
	MBS195-BR3.2	167:1		6500	153	43	F16	210													
							F20	260													
	MBS300-BR5	290:1	95	9500	128	74	F25	300	145	473	325	157	90	412	25	70	153	212	8		
							F30	350													
C	MBS300-BR6	348:1	95	11000	146	75	F25	300	145	500	351	157	-	385	25	70	153	160	8	600	
							F30	350													
	MBS680-BR6	372:1	110	13500	167	81	F30(F25)	350	148	563	383	182	-	424	25	71	156	160	8		
	MBS680-BR8	519:1		16000	142	112	F30(F25)	350													

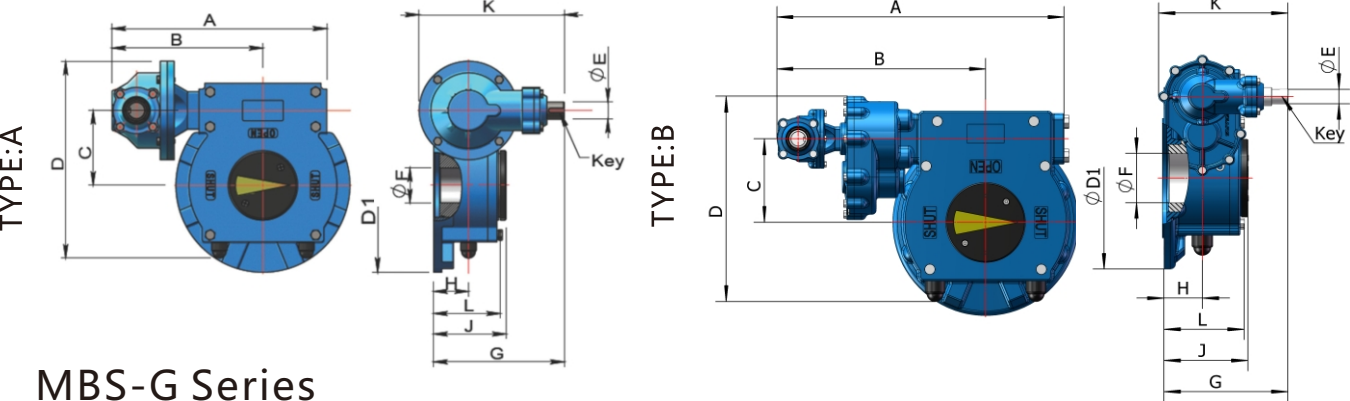
MBGEARS suggest the best stem dia :
MBS20:20 MBS21:22 MBS30:25 MBS55:30 MBS88:35
MBS195:40 MBS300:50

MBS-G Series

MBS-G Series , bevel gearbox designed primarily to be used on “WBS” quarter series gearboxes to change the input shaft direction by 90° for underground application.

Features

- Underground application
- Handwheel, t-type lever available , customer design
- 7models up to 16000NM in output
- Enclosure:IP67
- Temperature : -20°C~120°C
- Stoke : 0-90° (±5°adjustable)



MBS-G Series

T Y P E	TECHNICAL DATA						APPEARANCE SIZE														
	Model	Ratio	Max. Stem Dia.	output	input	M.A. ±15%	Flange	D1	L max	A	B	C	D	E	H	J	G	K	Key	hand wheel	
				Torque Nm																	
A	MBS21-G	46:1	36	850	75	11	F10	125	68	218	160				36	74	167				
							F12	150	63	218	160	62	186	20	31	71	162	180	6	200	
							F14	175	73	235	169				41	79	172				
	MBS30-G	62:1	45	1350	90	15	F14(F12)	175	85	215	184				46	93	203	212		300	
							F16	210		267	192	79	223								
	MBS55-G	72:1	55	2000	115	17	F14	175	91	273	195	89	243		50	99	206	212		350	
							F16	210													
	MBS88-G	128:1	65	4000	150	27	F16	210													
							F20	260	105	340	245	112	303		55	113	234	258		400	
							F25	300													
	MBS195-G	128:1	80	5000	180	28	F16	210						28					8		
							F20	260	117	370	260	129	333		62	125	241	258		600	
							F25	300													
MBS300-G	238:1	95	8500	170	50	F25	300		145	450	293	157	420		70	153	280	324		600	
						F30	350														
B	MBS300-SG	535:1	95	11000	152	65	F25	300		145	539	391	157	385		70	153	249	260		600
							F30	350													
	MBS680-SG	572:1	110	16000	145	110	F30(F25)	350	148	603	456	182	424		71	156	228	260			

MQG Series

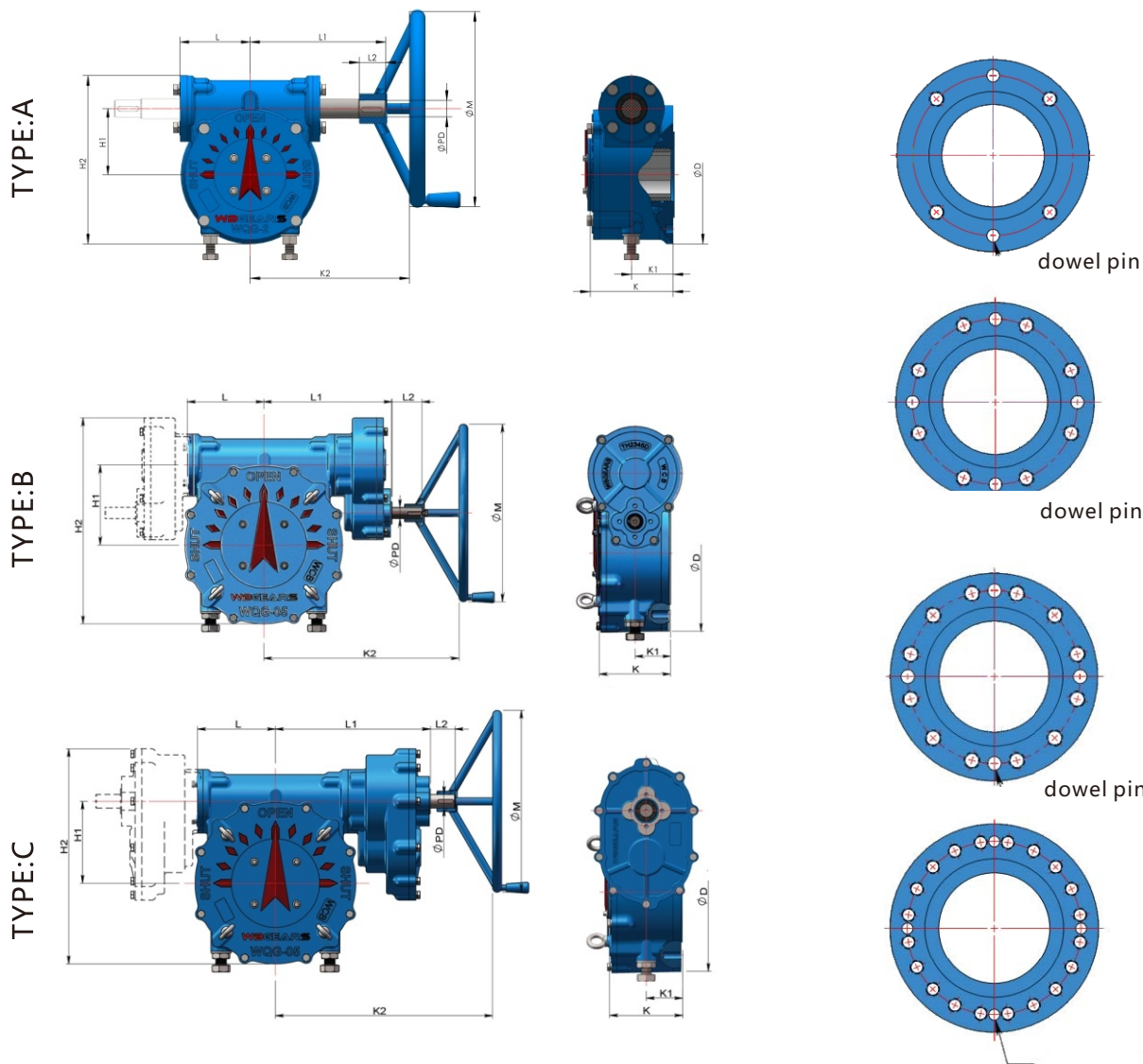
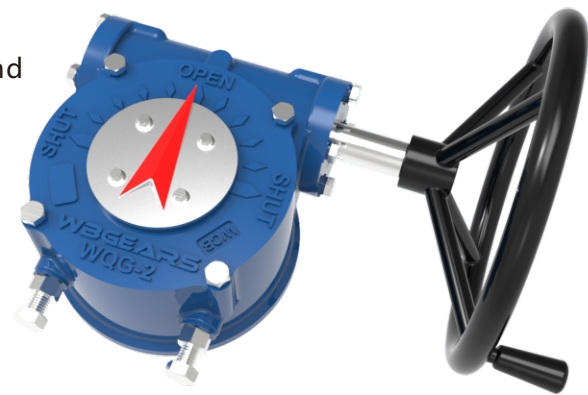
The MBGEARS Series ‘MQG’ quarter-turn gear operators are rugged, industrial grade products manufactured with WCB.

Application

MBGEARS MQG-D series operator are quarter-turn devices intended for the operation of ball, plug and butterfly valves. The gearboxes are suitable for manual application.

Features

- Totally enclosed gearing
- Tapered roller bearing supporting worm shaft
- 15 models up to 16000NM in output
- Enclosure: IP67
- Temperature : -20°C ~ 120°C
- Stroke : 0-90° (±5° adjustable)



MQG Series

T Y P E	TECHNICAL DATA						APPEARANCE SIZE													
	Model	Ratio	Max. Stem Dia.	output	input	M.A.	Flange	D	H1	H2	K max	K1	K2	L	L1	L2	PD	Key	Hand wheel	
				Torque Nm		±15%														
A	MQG-0	39:1	30	950	80	12	F12(F10)	150	66	176	95	43	245	82	170	35	20	6	300	
	MQG-00	38:1	40	1500	140	11	F12(F10)	150	75	190	95	46	250	86	170	35	20	6	350	
	MQG-1	44:1	50	2000	160	13	F14(F12)	175	84	212	106	55	270	96	180	35	20	6	400	
	MQG-2	52:1	60	2600	170	15	F16(F14)	210	100	255	125	63	306	107	206	40	25	8	500	
B	MQG-2S	158:1	60	3500	100	35	F16(F14)	210	100	286	125	63	361	107	191	80	25	8	400	
	MQG-3	164:1	75	4500	120	38	F20(F16)	260	117	331	122	59	386	122	206	80	25	8	500	
	MQG-35	224:1	80	6500	120	54	F25(F20-F16)	300	135	369	131	66	400	136	220	80	25	8	500	
C	MQG-4	340:1	100	10500	150	70	F25(F20-F16)	300	156	401	153	72	469	150	284	80	25	8	600	
	MQG-5	420:1	115	15000	175	86	F30(F25)	350	180	450	160	77	491	172	306	80	25	8	600	
	MQG-55	855:1	125	23500	140	168	F30(F25)	350	203	515	163	79	548	182	356	87	30	8	600	
	MQG-6	892:1	140	32000	170	188	F35(F30)	415	230	576	204	107	576	196	387	87	30	8	600	
	MQG-7	1360:1	180	51000	170	300	F40(F35)	475	280	710	224	122	632	233	445	87	30	8	800	
	MQG-8	2128:1	210	81000	175	463	F48(F40)	560	327	855	257	140	734	290	547	87	30	8	800	
	MQG-9	2941:1	250	120000	160	750	F60(F48)	686	373	925	268	135	766	332	579	87	30	8	800	
	MQG-10	4136:1	280	195000	180	1083	F60(F48)	686	450	1085	280	145	922	386	619	87	30	686	800	

MQG-D Series

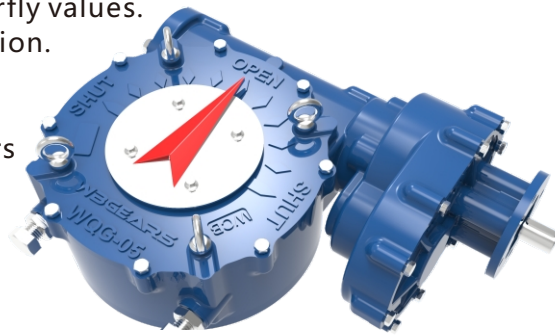
The MBGEARS Series ‘MQG-D’ quarter-turn gear operators are rugged, industrial grade products manufactured with WCB.

Application

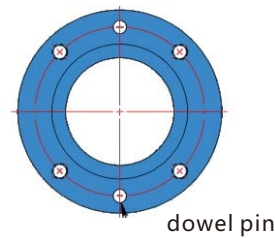
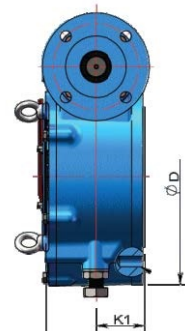
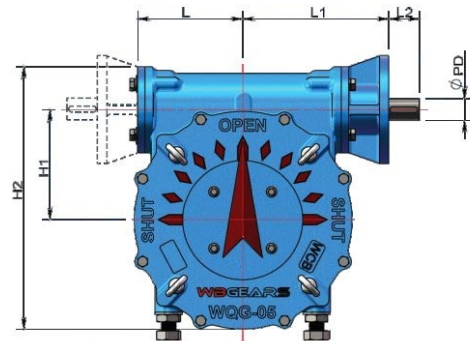
MBGEARS MQG-D series operator are quarter-turn devices intended for the operation of ball, plug and butterfly valves. The gearboxes are suitable for motorised application.

Features

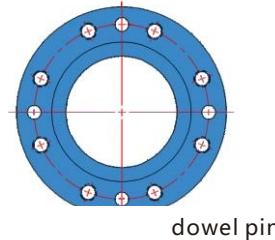
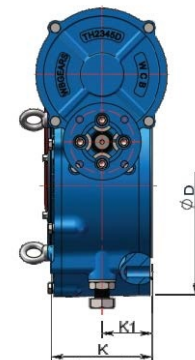
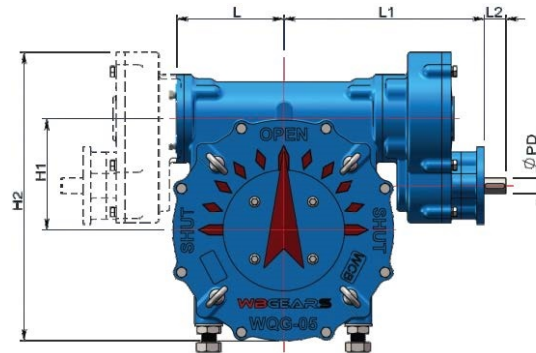
- Comprehensive gear ratios combined with a selection of auxiliary input spur gear reducers
- 14 models up to 195000NM in output
- Enclosure: IP67
- Temperature : -20°C ~ 120°C
- Stroke : 0-90° (±5°adjustable)



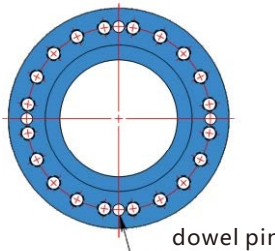
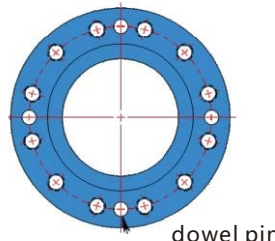
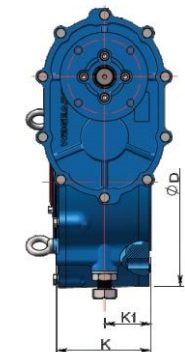
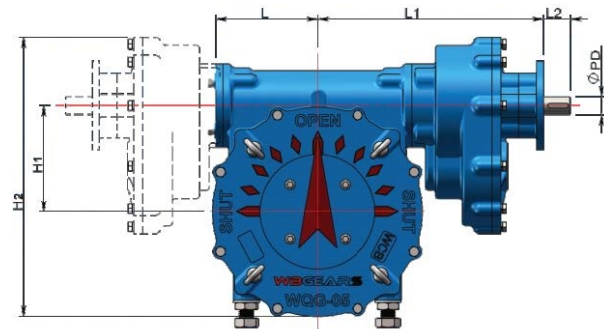
TYPE:A



TYPE:B



TYPE:C

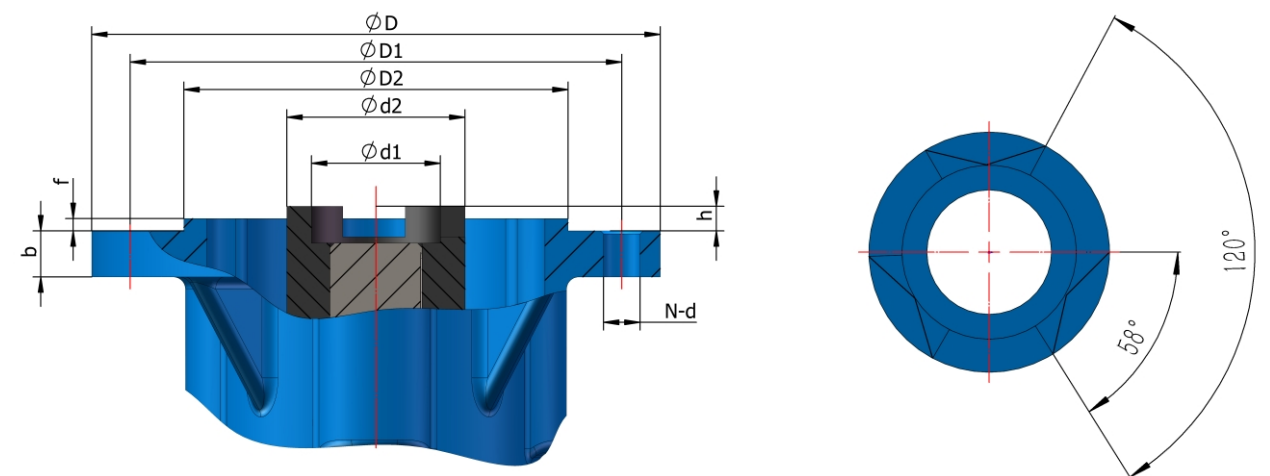


MQG-D Series

T Y P E	TECHNICAL DATA					APPERANCE SIZE									
	Model	Ratio	Max. Stem Dia	output torque	Flange	D	H1	H2	K max	K1	L	L1	L2	PD	Key
				Nm											
A	MQG-0D	39:1	30	950	F12[F10]	150	66	176	95	43	82	132	30	20	6
A	MQG-00D	38:1	40	1500	F12[F10]	150	75	190	95	46	86	135	40	25	8
A	MQG-1D	44:1	50	2000	F14[F12]	175	84	212	106	55	96	145	40	25	8
A	MQG-2D	52:1	60	3000	F16[F14]	210	100	255	125	63	107	180	45	30	8
B		105:1						286				228	40	25	8
		158:1						286				228	40	25	8
A	MQG-3D	54:1	75	4500	F20[F16]	260	117	297	122	59	122	195	45	30	8
B		164:1						331				243	40	25	8
		216:1						331				243	40	25	8
A	MQG-35D	56:1	80	6500	F25[F20-F16]	300	135	335	131	66	136	209	45	30	8
B		170:1						369				257	40	25	8
		224:1						369				257	40	25	8
A	MQG-4D	56:1	100	10500	F25[F20-F16]	300	156	376	153	72	150	320	50	35	10
C		167:1						401				320	40	25	8
		340:1						401				320	40	25	8
		392:1						401				320	40	25	8
A	MQG-5D	60:1	115	15000	F30[F25]	350	180	425	160	77	172	235	50	35	10
C		179:1						450				306	40	25	8
		364:1						450				306	40	25	8
		420:1						450				306	40	25	8
A	MQG-55D	57:1	125	23500	F30[F25]	350	203	470	163	78.5	182	245	50	35	10
C		170:1						495				353	40	25	8
		345:1						495				353	40	25	8
		855:1						515				398	45	30	8
A	MQG-6D	64:1	140	32000	F35[F30]	415	230	531	204	107	196	272	75	50	14
C		256:1						565				435	50	35	10
		320:1						565				435	50	35	10
		892:1						576				429	45	30	8
A	MQG-7D	68:1	180	51000	F40[F35]	475	280	640	204	122	233	310	75	50	14
C		272:1						666				473	50	35	10
		415:1						666				473	50	35	10
		1360:1						710				487	45	30	8
A	MQG-8D	62:1	210	81000	F48[F40]	560	327	752	257	140	290	372	85	55	16
C		459:1						779				540	50	35	10
		568:1						779				540	50	35	10
		1375:1						855				589	45	30	8
A	MQG-9D	64:1	250	120000	F60[F48]	686	373	802	268	135	332	436	90	60	18
B		365:1						925				574	50	35	10
C								-				-	-	-	-
	MQG-10D	MADE	280	195000	F60[F48]	686	450	-	280	145	386	-	-	-	-

MQG-D Series

T Y P E	Model	Ratio	JB2920-81						ISO5210					
			Denso	Frame	input torque N.m	Speed r/min	TIME s	output torque N.m	Denso	Flange	input torque N.m	Speed r/min	TIME s	output torque N.m
A	MQG-0D	39:1	Z10	2	100	24	24	950	IQ12	F10	81	24	24	900
A	MQG-00D	38:1	Z15	2	150		24	1500	IQ19	F14	135		24	1500
A	MQG-1D	44:1	Z15	2	150		28	1900	IQ20	F14	203		28	2400
A	MQG-2D	52:1	Z20	3	200		33	3000	IQ20	F14	203		33	3000
B		105:1	Z10	2	100		66	2500	IQ18	F10	108	66	2600	
		158:1	Z10	2	100		99	3200	IQ12	F10	81	99	3000	
A	MQG-3D	54:1	Z30	3	300		34	4500	IQ25	F14	298	36	23	4500
B		164:1	Z10	2	100		103	4000	IQ18	F14	108	24	103	4200
		216:1	Z10	2	100		135	4500	IQ12	F10	81		135	4200
A	MQG-35D	56:1	Z45	4	450		35	7000	IQ25	F16	400	24	35	6300
B		170:1	Z15	2	150		106	6500	IQ19	F14	135		106	6400
		224:1	Z10	2	100		140	5800	IQ18	F10	108		140	6200
A	MQG-4D	56:1	Z60	4	600		35	9500	IQ35	F16	610	36	35	9600
C		167:1	Z30	3	300		104	10500	IQ25	F14	298		70	10000
		340:1	Z15	2	150		213	10500	IQ19	F14	135	24	213	10000
		392:1	Z10	2	100		245	8000	IQ19	F14	135	245	10500	
A	MQG-5D	60:1	Z90	5	900		38	15000	IQ40	F25	845	36	25	14000
C		179:1	Z45	4	450		112	15000	IQ25	F14	400	24	112	14500
		364:1	Z20	3	200		228	14700	IQ20	F14	203		228	15000
		420:1	Z15	2	150		263	12500	IQ19	F14	135		263	12000
A	MQG-55D	57:1	Z120	5	1200		36	19000	IQ70	F25	1290	36	36	23500
C		170:1	Z60	4	600		106	21000	IQ35	F16	610		106	21000
		345:1	Z30	3	300		216	21000	IQ25	F14	298	36	144	21000
		855:1	Z15	2	150	48	267	25000	IQ19	F14	135		356	23500
A	MQG-6D	64:1	Z180	5	1800	40	32000	IQ90	F25	1700	36	27	30500	
C		256:1	Z60	4	600	160	31000	IQ35	F16	610	24	160	31500	
		320:1	Z45	3	450	200	29000	IQ35	F16	474	48	100	31000	
		892:1	Z15	2	150	48	279	27000	IQ20	F14	176	72	186	32000
A	MQG-7D	68:1	Z250	7	2500	24	43	47600	SA35.1	F30	2500	24	43	47600
C		272:1	Z90	5	900		170	50000	IQ40	F25	845	36	113	47000
		415:1	Z60	4	600	259	51000	IQ35	F16	610	24	259	51000	
		1360:1	Z15	2	150	72	283	45000	IQ20	F14	176	72	283	49000
A	MQG-8D	62:1	Z350	8	3500	18	39	65000	SA35.1	F30	2500	24	39	50000
C		62:1	Z500	8	5000		39	81000	SA40.1	F30	5000		39	81000
		459:1	Z90	5	900	24	287	83000	IQ40	F25	845	36	191	79000
		568:1	Z60	4	600	36	237	70000	IQ35	F16	610	24	355	70000
		1375:1	Z30	3	300	72	286	83000	IQ25	F14	298	36	573	83000
A	MQG-9D	64:1	Z500	8	5000	18	40	90000	SA40.1	F30	5000	24	40	95000
B		365:1	Z120	5	1200	24	228	105000	IQ70	F25	1290	36	228	110000



Model	Jb2920										
	Flange	D	D1	D2 (H9)	b	f	h	d1	d2	d	n
Z5/Z10/Z15	2	145	120	90	12	4	8	30	45	12	4
	2I	115	95	75			6	26	39	10	
Z20/Z30	3	185	160	125	15		10	42	58	14	
	3I	145	120	90			8	30	45	12	
Z45/Z60	4	225	195	150	20	5	12	50	72	18	
Z90/Z120	5	275	235	180	25		14	62	82	22	
	5I	230	195	150			12	50	72	18	
Z180/Z250	7	330	285	220	30	6	16	72	98	26	
Z350/Z500	8	380	340	280	35		20	83	118	22	8