

AISI 316 & Bevel Gearboxes



Suitable for Valves Type



BUTTERFLY



BALL



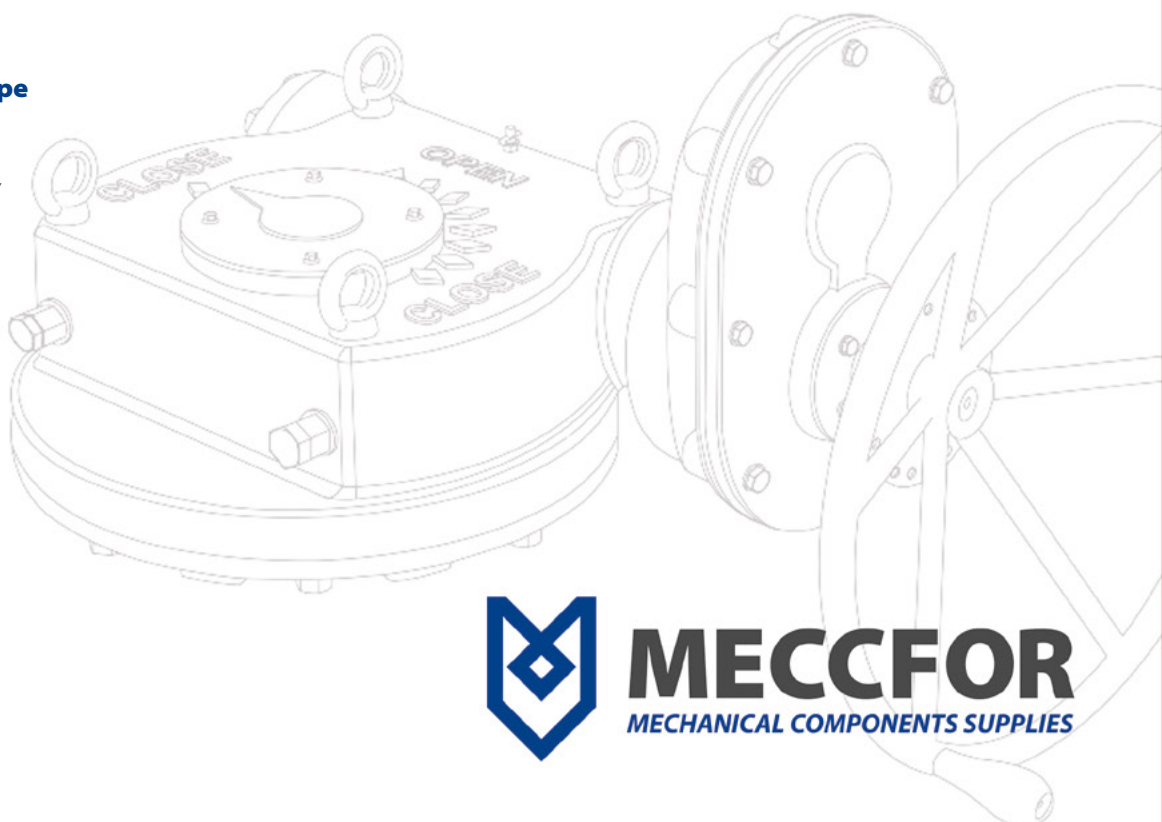
PLUG



GLOBE



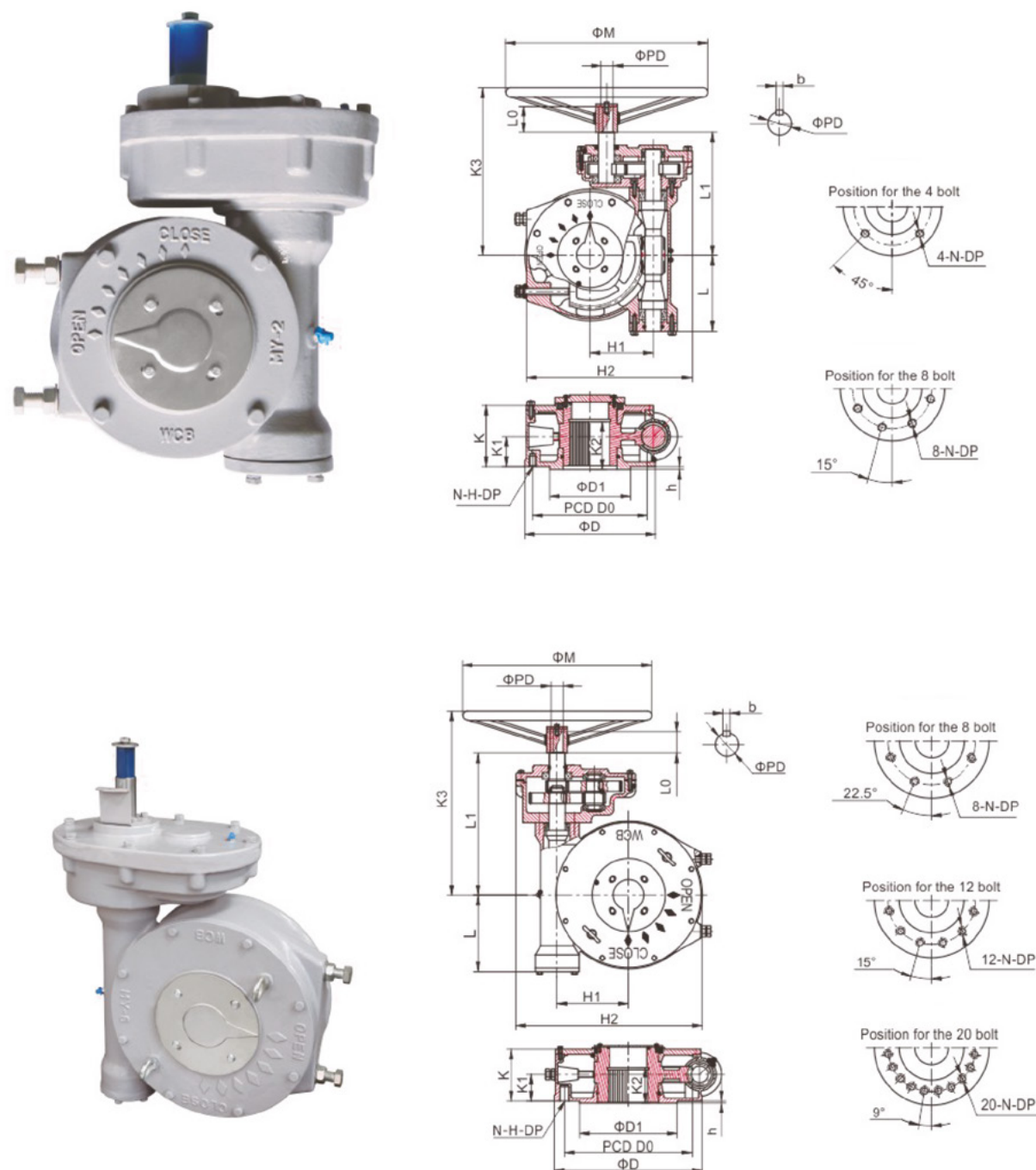
GATE



MECCFOR
MECHANICAL COMPONENTS SUPPLIES

MY - 1S Series

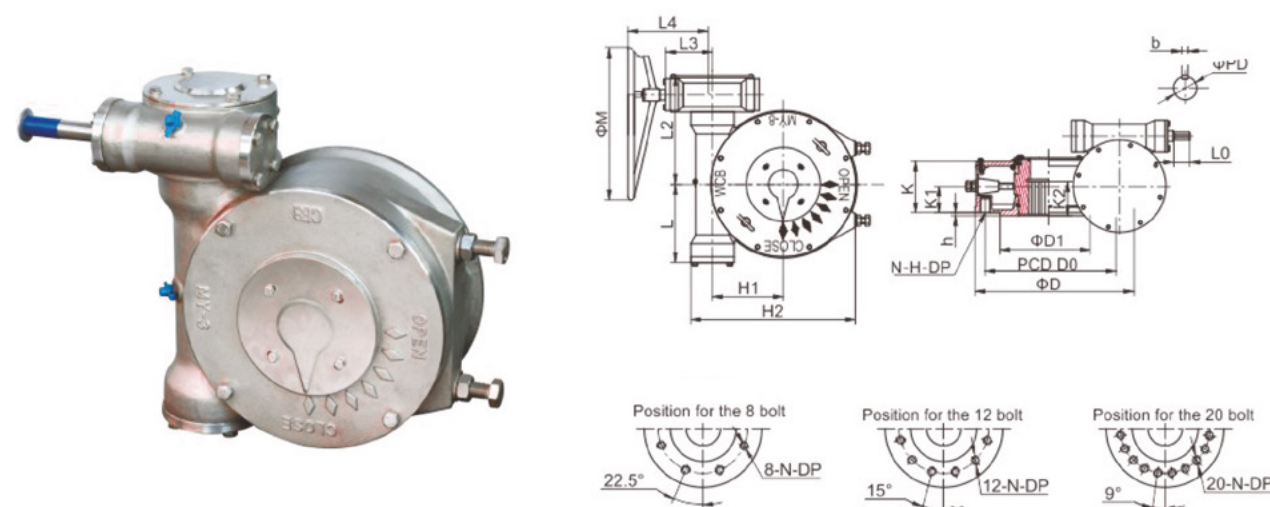
This series of products is quarter turn manual gear actuator. Suit to be used in ball valves, butterfly valves, plug valves, rotary ball valves etc. The housing made by precise casting, new design, nice appearance. It transmitted by worm gear and worm. The worm gear with self-locking. With tapered roller bearing, so the gearboxes can be operated more flexibly and have higher efficiency. Two connection types for choose: stem and key connection and removable nut type. The mounting flange adapts to ISO 5211. So the gearboxes installed on the valve are very convenient. General products protection grade is IP65. For special environment can be done IP68 and immersion.



Model	MY-0 -1S	MY-1 -1S	MY-2 -1S	MY-3 -1S	MY-4 -1S	MY-4 -1SZ	MY-5 -1S	MY-5 -1SZ	MY-6 -1S	MY-6 -1SZ	MY-7 -1SZ	MY-8 -1SZ	MY-9 -1SZ	MY-10 -1SZ
TECHNICAL-PARAMETERS														
Ratio	72:1	85:1	122:1	187:1	190:1	335:1	273:1	625:1	408:1	952:1	1040:1	2940:1	3140:1	3275:1
Max-torque	N-m	1000	1850	3000	4500	6500	8000	10000	15000	15000	18000	40000	53000	130000
	kgf-M	102	188	306	408	663	816	1020	1530	1531	1836	2857	5408	8163
Input torque N.m	63	103	122	120	175	120	185	120	185	100	170	220	230	305
Weight Kg	13	16	33	41	60	65	110	135	150	170	213	295	520	650
CONNECTION-SIZE														
Flange	F12	F14	F16	(F20)	F25	F25	F30	F30	F35	F35	F40	F48	F60	F60
(D)	150	175	210	250	300	300	350	350	415	415	475	560	686	686
PCD	D0	125	140	165	205	254	254	298	298	356	356	406	483	603
	N-H-DP	4-M12 -18	4-M16 -24	4-M20 -30	8-M16 -24	8-M16 -24	8-M16 -24	8-M20 -30	8-M20 -30	8-M30 -45	8-M30 -45	8-M36 -54	12-M36 -54	20-M36 -54
Convex (D1×h)	85×3	100×4	130×5	140×5	200×5	200×5	230×5	230×5	260×5	260×5	300×8	370×8	470×8	470×8
Max-Stem-Diameter	38	45	55	65	80	80	105	105	115	115	140	155	180	200
	12×8	14×9	16×10	20×12	22×14	22×14	28×16	28×16	32×18	32×18	36×20	40×22	45×25	50×28
APPEARANCE-SIZE														
H1	66	75	92	111	145	145	160	160	200	200	225	270	315	355
H2	196	221	283	322	388	388	404	404	510	510	582	670	740	765
K	89	89	108	110	140	140	140	140	179	179	188	203	230	240
K1	47	45	63	57	80	80	70	70	90	90	100	100	117	125
K2	47	58	62	60	100	100	102	102	112	112	140	155	176	200
K3	230	260	308	360	455	455	515	515	534	534	593	653	720	920
L	83	92	113	125	155	155	197	197	230	230	264	300	368	370
L1	161	170	198	211	260	295	294	325	338	359	413	453	520	655
handwheel	PD	15	21	21	28	28	28	28	32	32	38	45	45	45
	(b)key	5	6	6	8	8	8	8	10	10	10	12	12	12
	L0	30	35	35	40	40	40	40	50	50	50	50	50	50
	M	300	350	400	450	500	500	600	650	650	700	750	800	800

MY - S Series

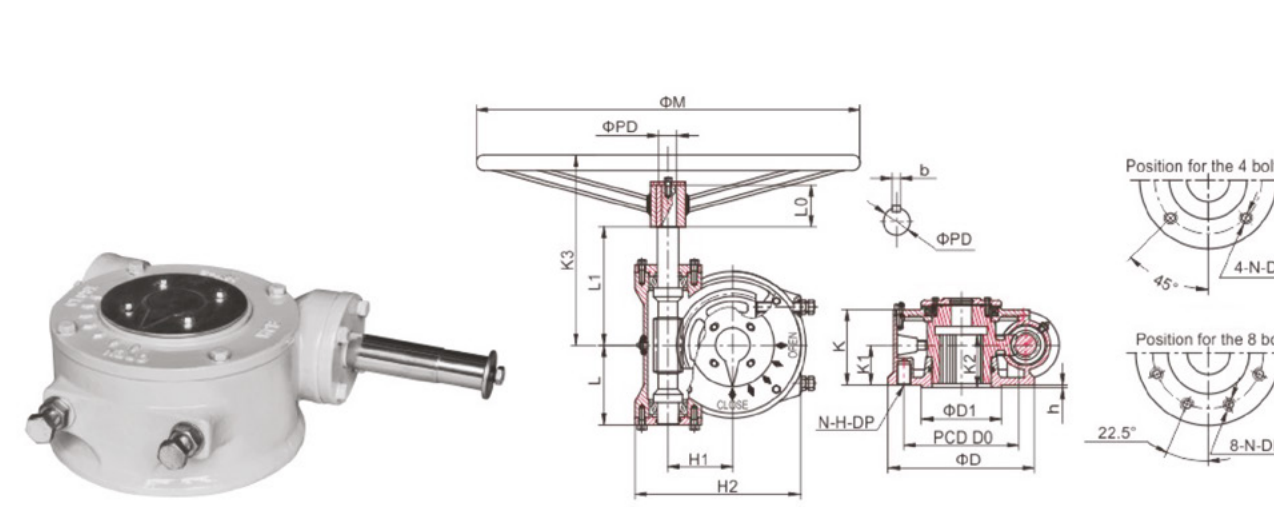
This series of products is quarter turn manual gear actuator. Suit to be used in ball valves, butterfly valves, plug valves, rotary ball valves etc. The housing made by precise casting, new design, nice appearance. It transmitted by worm gear and worm. The worm gear with self-locking. With tapered roller bearing, so the gearboxes can be operated more flexibly and have higher efficiency. Two connection types for choose: stem and key connection and removable nut type. The mounting flange adapts to ISO 5211. So the gearboxes installed on the valve are very convenient. General products protection grade is IP65.



Model	MY-4S	MY-5S	MY-6S	MY-7S	MY-8S	MY-9S
TECHNICAL-PARAMETERS						
Ratio	1170:1	1426:1	1541:1	1593:1	2250:1	2550:1
Max-torque	N-m	8000	15000	18000	28000	53000
	kgf-M	816	1530	1836	2857	5408
Mechanical efficiency M.A.±10%	105.3	128.3	138.7	143.4	202.5	229.5
Weight Kg	70	93	103	167	221	440
CONNECTION-SIZE						
Flange (D)	F25	F30	F35	F40	F48	F60
PCD	D0	254	298	356	406	483
	N-H-DP	8-M16-24	8-M20-30	8-M30-45	8-M36-54	12-M36-54
Convex (D1×h)	200×5	230×5	260×5	300×8	370×8	470×8
Max-Stem-Diameter	80	105	115	140	155	180
	22×14	28×16	32×18	36×20	40×22	45×25
APPEARANCE-SIZE						
H1	145	160	200	225	270	335
H2	344	390	465	540	632	740
K	140	140	179	188	203	215
K1	80	70	90	100	100	117
L	155	197	230	264	300	368
L2	244	286	319	372	410	508
L3	83	92	92	113	125	155
L4	230	285	285	330	380	430
handwheel	PD	21	21	21	28	28
	(b)key	6	6	6	8	8
	L0	35	35	35	40	40
	M	300	350	400	450	500

MY Series

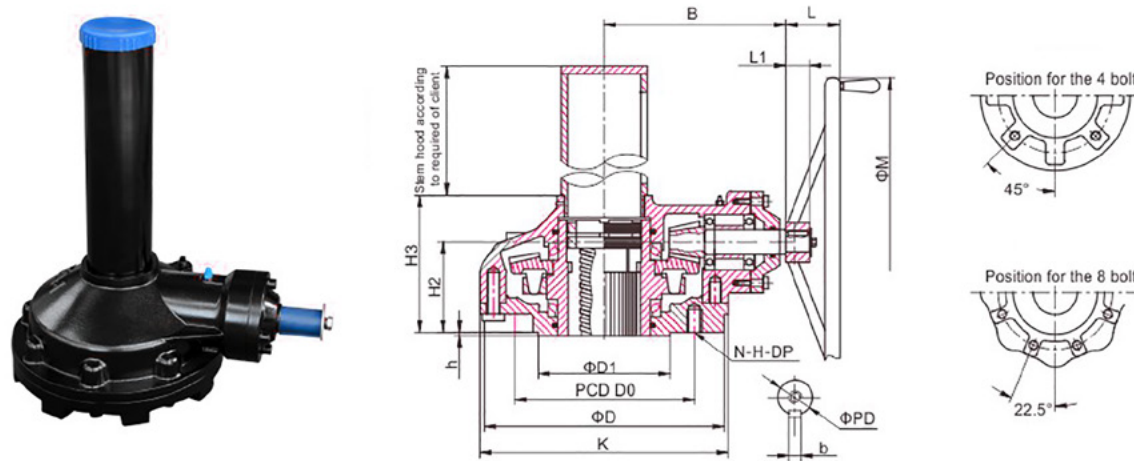
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Model	MY-000	MY-00	MY-0	MY-1	MY-2	MY-3	MY-4	MY-5	MY-6
TECHNICAL-PARAMETERS									
Ratio	24:1	33:1	39:1	46:1	49:1	53:1	60:1	62:1	68:1
Max-torque	N-m	300	500	980	1600	2700	4200	5600	7000
	kgf-M	31	51	100	143	255	478	617	714
Input torque N.m	41	50	85	115	185	255	315	380	425
CONNECTION-SIZE									
FLANGE (D)	F07	F10	F12	F14	F16	(F20)	F25	F30	F35
PCD	D0	90	125	150	175	210	250	300	415
	N-H-DP	70	102	125	140	165	205	254	298
Convex (D1×h)	4-M8-15	4-M10-15	4-M12-18	4-M16-24	4-M20-30	8-M16-24	8-M16-24	8-M20-30	8-M30-45
Max-Stem-Diameter	55×3	70×3	85×3	100×4	130×5	140×5	200×5	230×5	260×5
	20	30	38	45	55	65	80	105	115
	6×6	8×7	10×8	14×9	16×10	20×12	22×14	28×16	32×18
APPEARANCE-SIZE									
H1	41	55	66	75	92	111	145	160	200
H2	124	151	208	230	270	303	373	420	495
K	75	70	89	89	108	110	140	140	179
K1	40	43	51	52	63	61	85	87	110
K2		42	47	58	62	60	100	102	112
K3	185	200	230	285	330	380	430	465	530
L	65	70	83	92	113	125	160	197	230
L1	105	102	135	145	192	213	256	265	340
handwheel	PD	15	15	21	21	28	28	45	45
	(b)key	5	5	6	6	8	8	12	12
	L0	30	30	30	35	40	40	50	50
	M	250	250	300	350	450	500	600	700

BA Series

This bevel gearbox can be installed directly on the gate valves, butterfly valves, plug valves, globe valves and other valves. By using spiral bevel gears and thrust ball bearing, this series actuator can run smoothly, and has high output torque, low noise and high efficiency. It can avoid from water in and grease out. Protection grade is IP65. For special environment can be done IP68 and immersion. Handwheel and stem cover can be customized. For different valves and requirement, there are single stage gearboxes with input flange, two stage gearboxes with input flange, two stage manual gearboxes and so on.



Model	BA-000	BA-00	BA-0	BA-1	BA-2	BA-3	BAA-3
TECHNICAL-PARAMETERS							
Ratio	2.35:1	3:1	3.6:1	4.5:1	5.2:1	5.6:1	23:1
Max-torque Nm	360	480	735	1470	2940	4000	6000
Max-thrust N	43000	64000	98000	196000	340000	490000	630000
Max-stem dia.mm Copper-nut	25	30	40	52	70	90	110
Gate-valve DN	50	80-100	150-200	250-400	450-700	800-1000	1200
Globe-valve DN	50	80	100-150	200-250	300-350	400-500	550-650
Weight Kg	15	22	28	54	110	198	320
CONNECTION-SIZE							
Flange (D)	F12	F14	F16	F25	F30	F35	F35
PCD	D0	125	140	165	254	298	356
	N-H-DP	4-M12-18	4-M16-24	4-M20-30	8-M16-24	8-M20-30	8-M30-45
Convex(D1xh)	85×3	100×4	130×5	200×5	230×5	260×5	260×5
APPEARANCE-SIZE							
B	150	150	170	233	306	370	395
H2	80	80	85	97	142	160	178
H3	125	125	155	175	210	280	290
L	40	75	92	107	107	118	118
K	155	180	210	285	390	410	510
handwheel	PD	26	28	28	32	32	38
	(b)key	8×7	8×7	8×7	10×8	10×8	10×8
	L1	40	40	40	50	55	55
	M	300	300	400	460	520	600

BA Series

BA stem nut dimension

User could machining the limit stem nut hole according to this drawing. When you machining hole d, please pay attention to coaxality with reference A. Stem nut material: brass H62, bronze H94, ductile iron, D-2 and so on. you can choose it depends on your demand.



This chart types are:
BA-00
BA-0
BA-1
BA-2

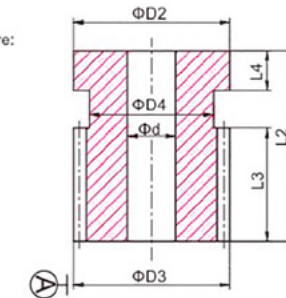


Figure in the hole Φd processing, the customer needed to change But can not exceed the Φdmax size, Φdmax see page 21.



This chart types are:
BA-3
BAA-3

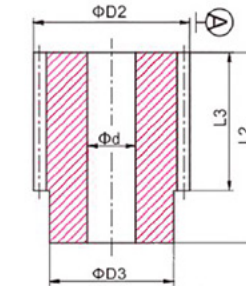
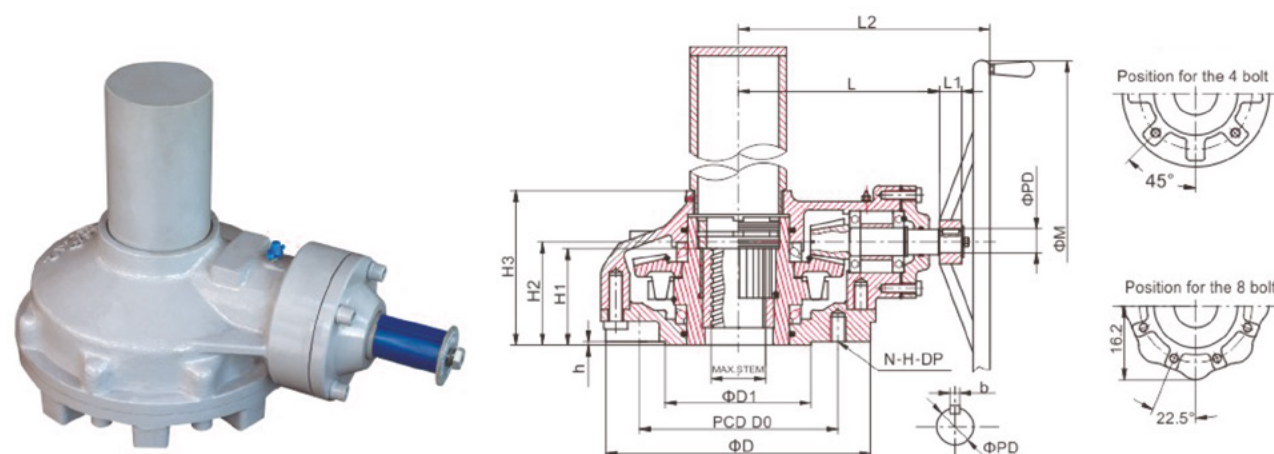


Figure in the hole Φd processing, the customer needed to change But can not exceed the Φdmax size, Φdmax see page 21.

model	BA-000	BA-00	BA-0	BA-1	BA-2	BA-3	BAA-3
size							
d	10	20	25	30	35	45	60
D3	50	57	64	74	94	108	132
D2	50	57	65	78	98	118	147
L4	12	15	15	22	31		
L3	25	25	37	46	55	80	108
L2	46	55	65	78	98	120	145
D4	42	50	58	68	86		

MY - V Series

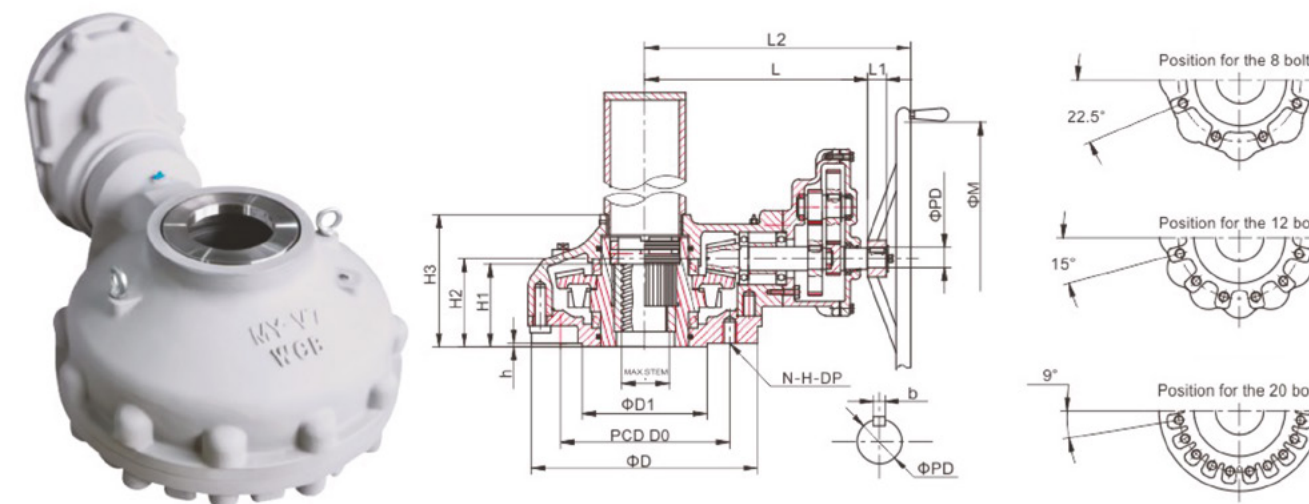
This bevel gearbox can be installed directly on the gate valves, butterfly valves, plug valves, globe valves and other valves. By using spiral bevel gears and thrust ball bearing, this series actuator can run smoothly, and has high output torque, low noise and high efficiency. It can avoid from water in and grease out. Protection grade is IP65. For special environment can be done IP68 and immersion. Handwheel and stem cover can be customized. For different valves and requirement, there are single stage gearboxes with input flange, two stage gearboxes with input flange, two stage manual gearboxes and so on.



Model	MY-VS10	MY-VS20	MY-V0	MY-V1	MY-V2	MY-V3	MY-V35	MY-V4	MY-V5	MY-V6
TECHNICAL-PARAMETERS										
Ratio	2.3:1	2.35:1	3.1:1	3.6:1	4:1	4.1:1	5:1	6:1	6.3:1	7.1:1
Max-torque	N-m	216	363	589	932	1491	2296	3404	4000	7250
	kgf-M	22	37	60	95	152	234	347	408	740
Max-stem dia. mm	20	25	35	40	52	60	70	90	100	120
Weight Kg	10	12	21.5	28	35	50	95.5	160	190	288
CONNECTION-SIZE										
Flange	F10	F12	F14	F16	(F20)	F25	F30	F35	F35	F40
(D)	125	150	175	210	250	300	350	415	415	475
PCD	D0	102	125	140	165	205	254	298	356	406
	N-H-DP	4-M10-15	4-M12-18	4-M16-24	4-M20-30	8-M16-24	8-M16-24	8-M20-30	8-M30-45	8-M36-54
Convex (D1×h)	70×3	85×3	100×4	130×4	140×5	200×5	230×5	260×5	260×5	300×8
APPEARANCE-SIZE										
H1	38	46	55	62	75	85	105	145	145	165
H2	65	70	70	75	90	100	140	160	155	210
H3	110	125	128	145	160	170	225	280	280	335
L	120	135	160	180	200	225	280	353	355	365
L2	215	230	260	320	340	365	420	445	515	565
handwheel	PD	28	28	28	28	32	32	32	38	50
	(b)key	8×7	8×7	8×7	8×7	10×8	10×8	10×8	10×8	2-16×10
	L1	40	40	40	40	50	50	50	50	55
	M	300	300	300	400	460	460	520	600	800

MY - V - 1S Series

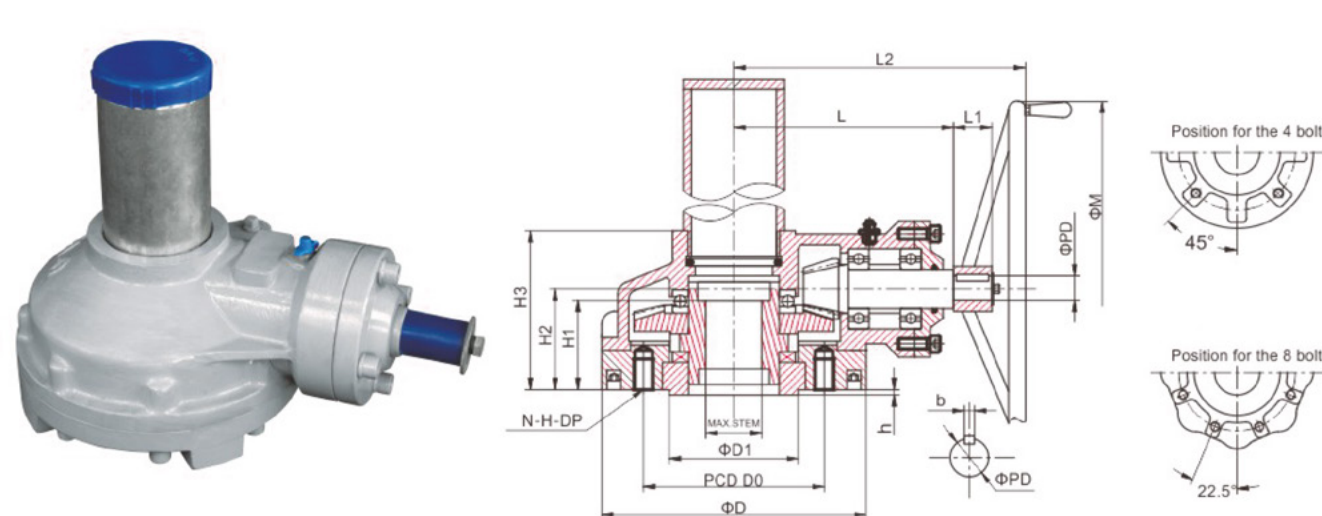
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Model	MY-V2-1S	MY-V3-1S	MY-V35-1S	MY-V4-1S	MY-V5-1S	MY-V6-1S	MY-V7-1S	MY-V8-1S	MY-V9-1S	MY-V10-1S
TECHNICAL-PARAMETERS										
Ratio	12.2:1	18.1:1	23:1	42:1	42:1	46:1	94.4:1	115.5:1	126:1	200:1
Max-torque	N-m	2500	3500	4000	6800	8200	14500	18600	26100	65000
	kgf-M	255	357	510	693	836	1479	1897	2662	6632
Max-stem dia. mm	52	60	70	90	100	120	130	150	180	200
Weight Kg	52	70	119	180	265	328	470	645	1300	1700
CONNECTION-SIZE										
Flange	(F20)	F25	F30	F35	F35	F40	F48	F60	F60	F80
(D)	250	300	350	415	415	475	560	686	686	900
PCD	D0	205	254	298	356	356	406	483	603	813
	N-H-DP	8-M16-24	8-M16-24	8-M20-35	8-M30-45	8-M30-45	8-M36-54	12-M36-54	20-M36-54	20-M42-65
Convex (D1×h)	140×5	200×5	230×5	260×5	260×5	300×8	370×8	470×8	470×8	670×10
APPEARANCE-SIZE										
H1	75	85	105	120	145	165	195	200	200	200
H2	90	100	140	160	155	210	220	250	330	330
H3	160	170	225	280	280	335	331	346	409	540.5
L	305	330	390	480	480	500	550	610	817	964
L2	445	470	550	595	655	675	750	810	1020	1190
handwheel	PD	28	28	28	38	38	38	45	45	50
	(b)key	8×7	8×7	8×7	10×8	10×8	10×8	12×8	12×8	14×9
	L1	40	40	40	50	50	50	50	50	60
	M	400	500	600	650	650	700	800	900	1000

CK Series

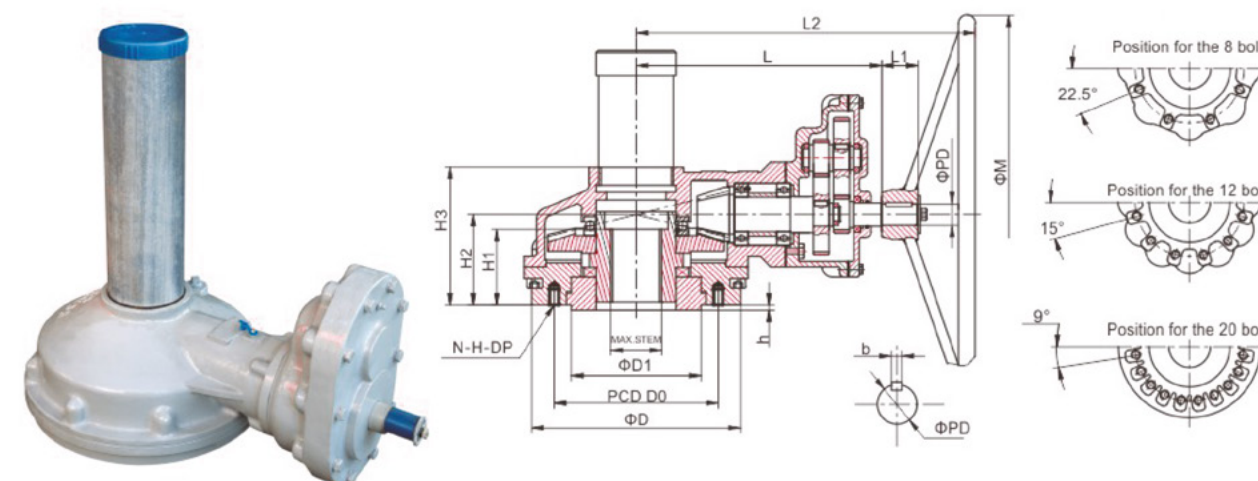
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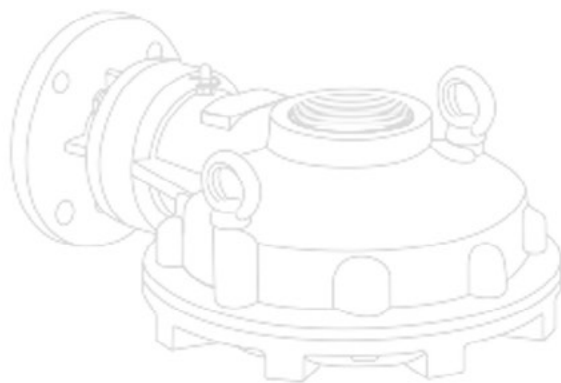
Model	RK03	RK05	RK1	2CK2	2CK3	2CK5	2CK8	2CK10
TECHNICAL-PARAMETERS								
Ratio	2.6:1	3:1	3.6:1	4.2:1	4.2:1	5:1	6.3:1	7.1:1
Max-thrust	N-m	90000	135000	180000	250000	280000	370000	650000
	kgf-M	9184	13776	18367	25510	28571	37755	66327
Max-torque	N-m	350	550	900	1500	2000	2800	4500
	kgf-M	36	56	92	153	204	286	459
Max-stem dia. mm	42	52	60	70	80	95	110	130
Weight Kg	18	25	28	33	48	92.5	190	280
CONNECTION-SIZE								
Flange	F12	F14	F16	(F20)	F25	F30	F35	F40
(D)	150	175	210	250	300	350	415	475
PCD	D0	125	140	165	205	254	298	356
	N-H-DP	4-M12-18	4-M16-24	4-M20-30	8-M16-24	8-M16-24	8-M20-30	8-M30-45
Convex (D1×h)	85×3	100×4	130×4	140×5	200×5	230×5	260×5	300×8
APPEARANCE-SIZE								
H1	45	69	76	89	97	120	150	176
H2	65	69	78	91	94.5	112	140	214
H3	101	114	125	144	158	188	235	338.5
L	152	170	180	202	226	280	355	365
L2	275	350	370	342	366	440	515	675
handwheel	PD	28	28	28	32	32	38	50
	(b)key	8×7	8×7	8×7	10×8	10×8	10×8	2-16×10
	L1	40	40	40	50	50	50	50
	M	300	400	500	550	600	700	800

CK - 1S Series

This bevel gearbox can be installed directly on the gate valves, butterfly valves, plug valves, globe valves and other valves. By using spiral bevel gears and thrust ball bearing, this series actuator can run smoothly, and has high output torque, low noise and high efficiency. It can avoid from water in and grease out. Protection grade is IP65. For special environment can be done IP68 and immersion. Handwheel and stem cover can be customized. For different valves and requirement, there are single stage gearboxes with input flange, two stage gearboxes with input flange, two stage manual gearboxes and so on.



Model	2CK2-1S	2CK3-1S	2CK5-1S	2CK8-1S	2CK10-1S	2CK15-1S	2CK18-1S
TECHNICAL-PARAMETERS							
Ratio	13.6:1	17.6:1	22:1	42.5:1	48:1	94.4:1	115.5:1
Max-thrust	N-m	290000	400000	500000	800000	1100000	1250000
	kgf-M	29592	408163	510204	81633	112244	127551
Max-torque	N-m	2350	3200	5600	8500	13500	18500
	kgf-M	240	327	398	714	1020	1582
Max-stem dia. mm	70	80	95	110	130	150	160
Weight Kg	52	70	115	256	316	470	645
CONNECTION-SIZE							
Flange	(F20)	F25	F30	F35	F40	F48	F60
(D)	250	300	350	415	475	560	686
PCD	D0	205	254	298	356	406	483
	N-H-DP	8-M16-24	8-M16-24	8-M20-35	8-M30-45	8-M36-54	12-M36-54
Convex (D1×h)	140×5	200×5	2300×5	260×5	300×8	370×8	470×8
APPEARANCE-SIZE							
H1	89	97	120	152	176	188	230
H2	91	94.5	112	140	214	227	231
H3	144	158	188	235	338.5	331	346
L	305	330	390	480	500	550	610
L2	400	470	530	640	660	750	810
handwheel	PD	28	28	32	38	38	45
	(b)key	8×7	8×7	8×7	10×8	10×8	12×8
	L1	40	40	50	50	50	50
	M	500	550	600	700	750	850



MECCFOR
MECHANICAL COMPONENTS SUPPLIES

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