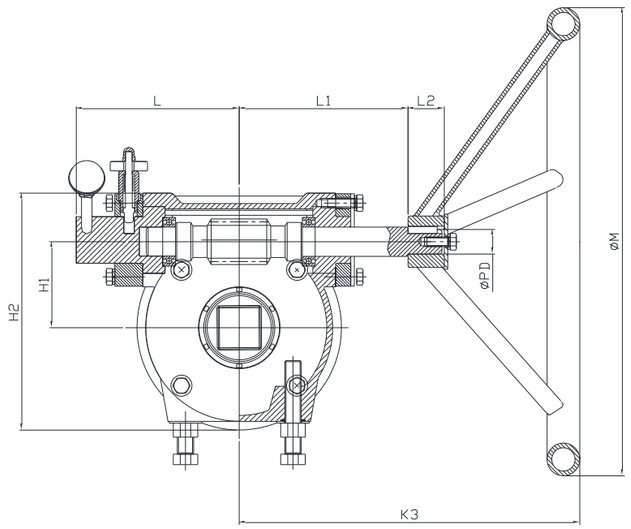
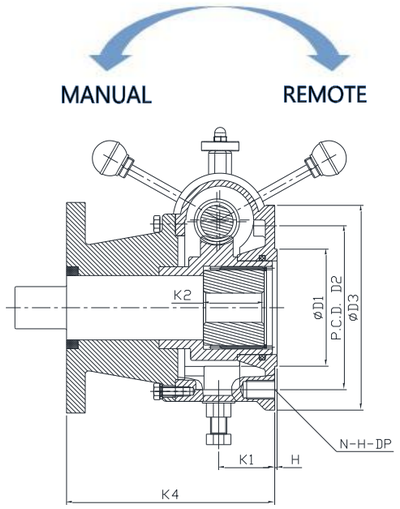
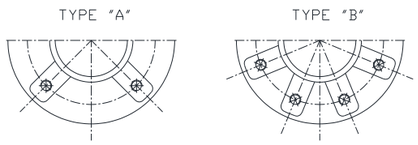
DECLUTCH GEAR BOX

Horisental Input







Dimension

DIM / MODEL	TYPE	FLANGE SIZE	ØD1	P.C.D D2	P.C.D N-H-DP	ØD3	H	H1	H2	K1	K2	K3	K4	L	L1	INPUT SHAFT PART L2	INPUT SHAFT PART ØPD	INPUT SHAFT PART KEY	HAND WHEEL ØM
GBTW-BF	A	F07	50	70	4-M8-15	86	2	48	138	40	30	131	125	107	96	24	16	6	160
GBTW-00		F10	70	102	4-M10-15	125	3	55	150	33	49	155	129	117	109	24	16	6	250
GBTW-0		F12	85	125	4-M12-18	150	3	66	181	48	51	177	155	135	131	24	16	6	250
GBTW-01		F14	100	140	4-M16-24	175	4	75	203	48	61	205	171	161	146	30	21	6	300
GBTW-02		F16	130	165	4-M20-30	210	5	92	245	64	68	327	191	178	180	30	21	6	400
GBTW-03	B	F20	140	205	8-M16-24	250	5	111	284	57	67	362	202	187	215	30	21	6	400
GBTW-04		F25	200	254	8-M16-24	300	5	144	349	63	99	396	240	215	256	38	28	8	500



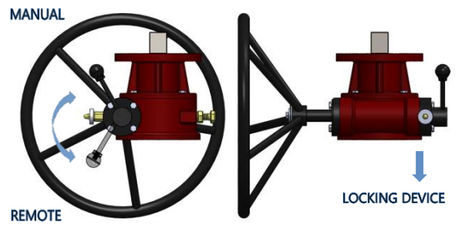
Bushing Type
Splines enable accurate alignment of valve stem key.

FEATURE

- All mounting bases conform to ISO 5210/1 standards.
- All castings are ductile iron, Class 65-45-12.
- Stem nut(bush) is not unibody. Splined busing permit accurate positioning between gear drive and valve stem.
- Superior quality, excellent strength, impact resistance and sophisticated design.

Manual Override Operation

It should be noted that these products have been developed specifically for use with Pne umatic actuators and Hydraulic actuators pr oviding a positive mechanical means of man ual operation.



1. Pull locking device up.
2. Then move the lever to "manual" position.
3. After fix "manual" position, operate handle. (Pneumatic actuator is now fully disengaged.)
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- CAUTION -

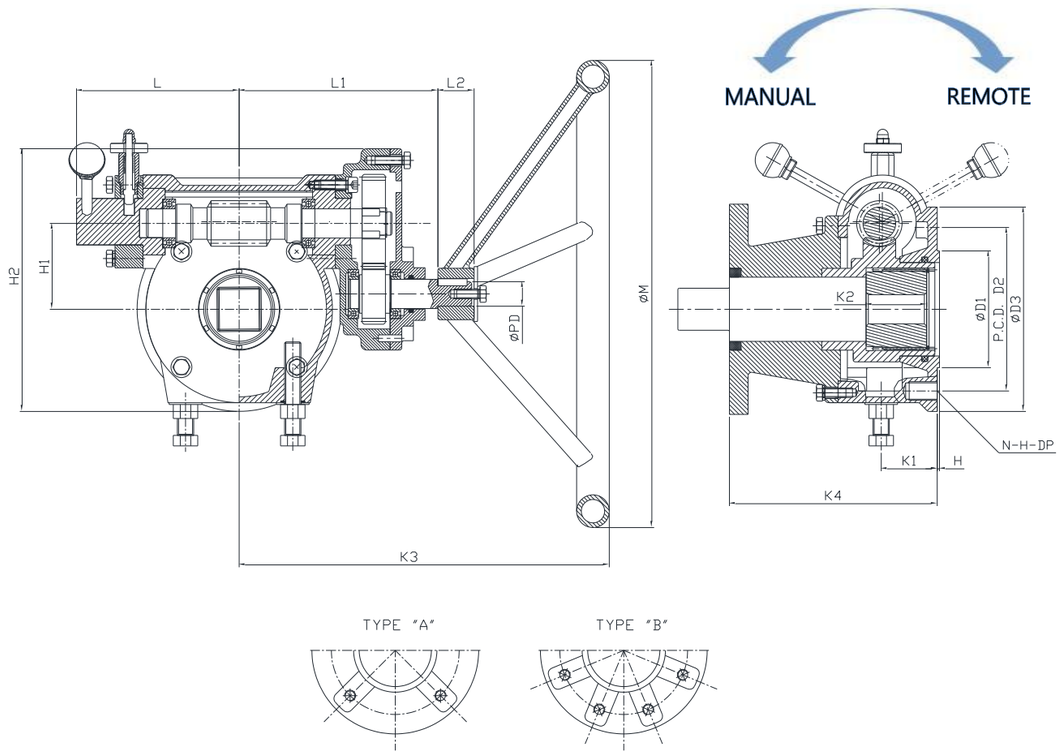
- Operate to check the position of manual and remote.
- When convert "manual" position, control the position of worm shaft and then operate to accord with worm gear.

Selection Chart for Manual Operation

SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity N · m	MAX. Torque Capacity Ft · lbf	WEIGHT Kg
GBTW-BF	32 : 1	18 (6x6)	F05, F07	400	295	7
GBTW-00	33 : 1	28 (8x7)	F07, F10	500	368	13
GBTW-0	39 : 1	35 (10x8)	F10, F12	980	722	20
GBTW-01	46 : 1	45 (14x9)	F14 (F12)	1400	1032	27
GBTW-02	49 : 1	55 (18x11)	F16 (F14)	2500	1843	32
GBTW-03	60 : 1	65 (20x12)	F20 (F16)	4000	2950	46
GBTW-04	68 : 1	80 (22x14)	F25 (F20)	6050	4462	65

DECLUTCH GEAR BOX

Horisental Input with single Reduction Gear Attachment



Dimension

DIM / MODEL	BASE PART							EXTERNAL PART								INPUT SHAFT PART			HAND WHEEL
	TYPE	FLANGE SIZE	ØD1	P.C.D D2	P.C.D N-H-DP	ØD3	H	H1	H2	K1	K2	K3	K4	L	L1	L2	ØPD	KEY	ØM
GBTW-02	A	F16	130	165	4-M20-30	210	5	92	286	64	68	305	191	178	205	30	21	6	500
GBTW-03	B	F20	140	205	8-M16-24	250	5	111	325	57	67	357	202	187	217	30	21	6	500
GBTW-04		F25	200	254	8-M16-24	300	5	144	383	63	99	418	240	215	246	38	28	8	600



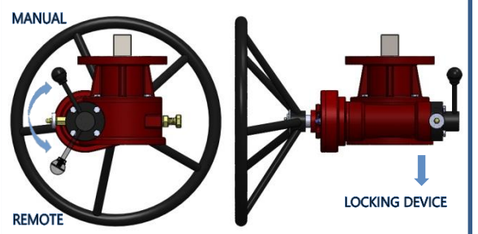
Bushing Type
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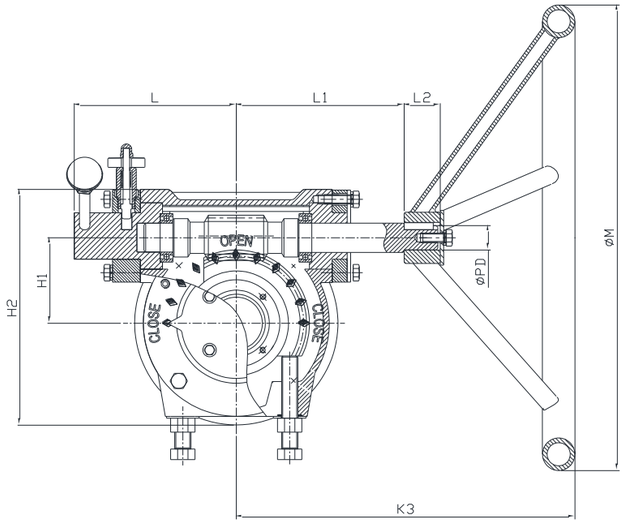
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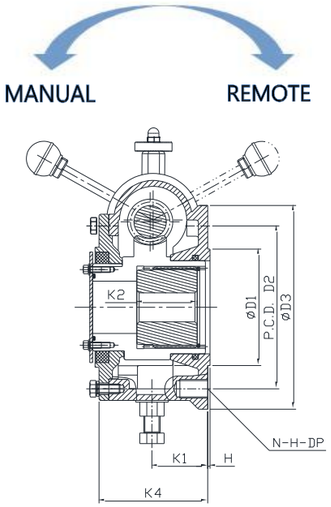
Selection Chart for Manual Operation

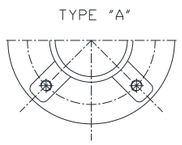
SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity		WEIGHT
				N · m	Ft · lbf	Kg
GBTW-02	49 : 1	55 (18x11)	F16 (F14)	2500	1843	32
GBTW-03	60 : 1	65 (20x12)	F20 (F16)	4000	2950	46
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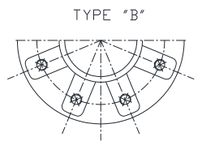
DECLUTCH GEAR BOX

Horisental Input





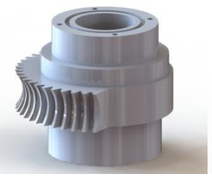




Dimension

DIM / MODEL	TYPE	FLANGE SIZE	BASE PART ØD1	P.C.D D2	P.C.D N-H-DP	BASE PART ØD3	BASE PART H	EXTERNAL PART H1	EXTERNAL PART H2	EXTERNAL PART K1	EXTERNAL PART K2	EXTERNAL PART K3	EXTERNAL PART K4	EXTERNAL PART L	EXTERNAL PART L1	INPUT SHAFT PART L2	INPUT SHAFT PART ØPD	INPUT SHAFT PART KEY	HAND WHEEL ØM
GBTW-00	A	F10	70	102	4-M10-15	125	3	55	150	33	49	155	70	117	109	24	16	6	250
GBTW-0		F12	85	125	4-M12-18	150	3	66	181	48	51	177	91	135	131	24	16	6	250
GBTW-01		F14	100	140	4-M16-24	175	4	75	203	48	61	205	94	161	146	30	21	6	300
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GBTW-04		F25	200	254	8-M16-24	300	5	144	349	63	99	396	124	215	256	38	28	8	500







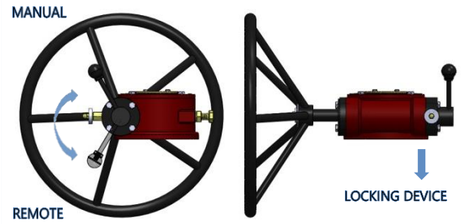
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- CAUTION -

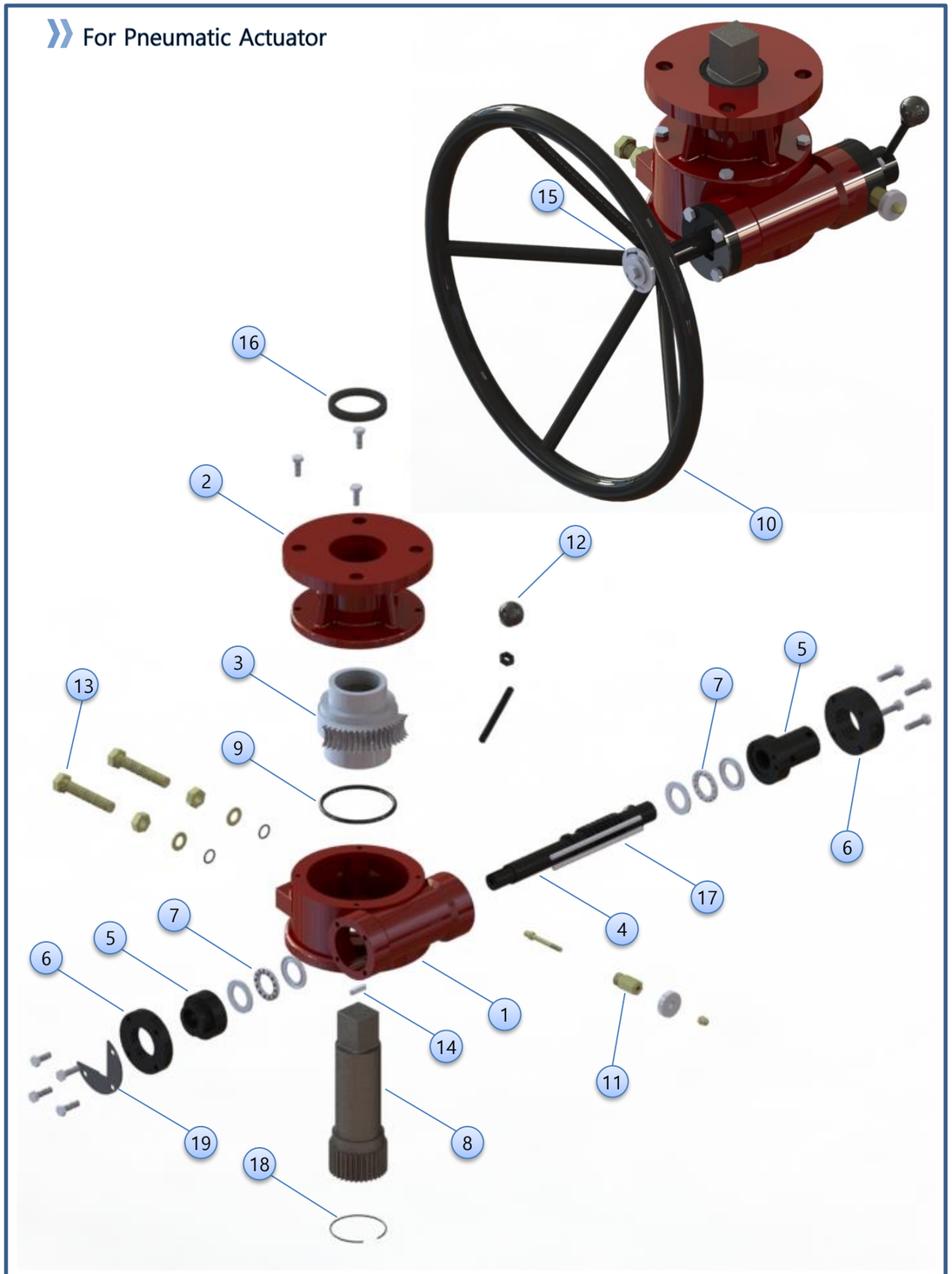
- Operate to check the position of manual and remote.
- When convert "manual" position, control the position of worm shaft and then operate to accord with worm gear.

Selection Chart for Manual Operation

SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity N · m	MAX. Torque Capacity Ft · lbf	WEIGHT Kg
GBTW-00	33 : 1	28 (8x7)	F07, F10	500	368	13
GBTW-0	39 : 1	35 (10x8)	F10, F12	980	722	20
GBTW-01	46 : 1	45 (14x9)	F14 (F12)	1400	1032	27
GBTW-02	49 : 1	55 (18x11)	F16 (F14)	2500	1843	32
GBTW-03	60 : 1	65 (20x12)	F20 (F16)	4000	2950	46
GBTW-04	68 : 1	80 (22x14)	F25 (F20)	6050	4462	65

DECLUTCH GEAR BOX ASSEMBLY

For Pneumatic Actuator



Part list & Material

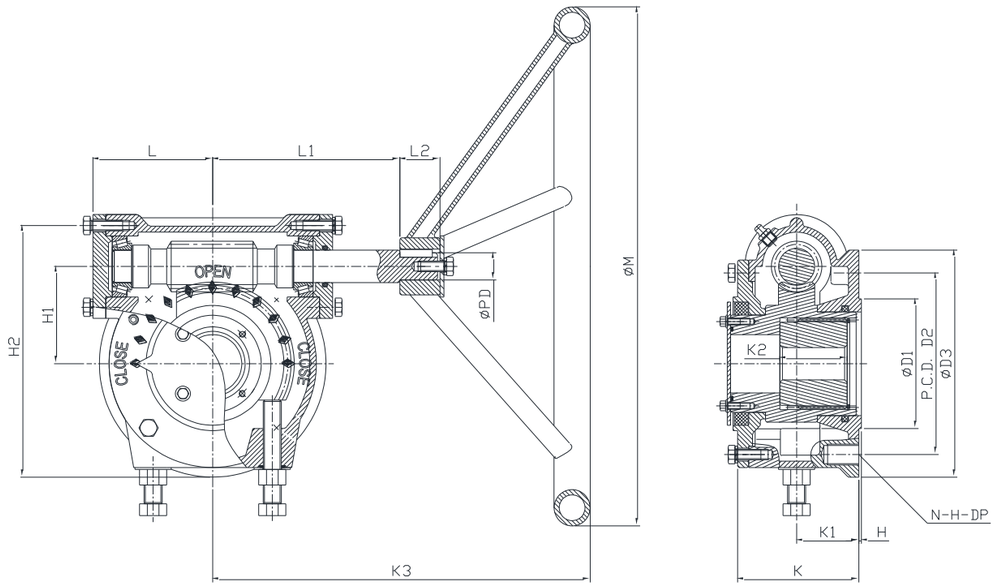
No.	DESCRIPTTION	MATERIAL			REMARK
		NAME	JIS	ASTM	
1	BODY	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
2	COVER	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
3	WORM GEAR	DUCTILE IRON	FCD-600	A536-80-55-06	B1486-C-95800 (ALBC3)
4	WORM SHAFT	ALLOY STEEL	SCM440	A322-4140	NOTE
5	SIDE ADAPTER	CARBON STEEL	S45C	A576-1045	
6	SIDE FLANGE	CARBON STEEL	S45C	A576-1045	
7	BALL BEARING	SPECIAL STEEL	SUJ2	A295-52100	
8	STEM NUT	DUCTILE IRON	FCD-450	A536-65-45-12	
9	O-RING	Buna N	NBR		NOTE
10	HANDWHEEL	STEEL PIPE	STPG	A53	NOTE
11	ROCK				
12	REVER				
13	STOPPER	ALLOY STEEL	SCM440	A322-4140	
14	KEY	CARBON STEEL	S45C	A576-1045	NOTE
15	NAMEPLATE	ALUMINUM			NOTE
16	RETAINER	Buna N	NBR		NOTE
17	PIN				
18	FIX SPRING	SPECIAL STEEL	SK5	W1-8	
19	SIDE STOPPER	CARBON STEEL	S20C + Zn	A576-1020	

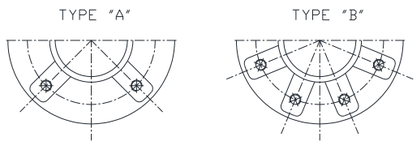
Material detail : Options and material changes

- All castings are ductile iron, FCD-450 (Class 65-45-12)
- Our company offers a wide variety of Handwheels, etc.
- Paint code : Unless specified, units are supplied with vp184 Red epoxy primer, our company can provide finish coating upon request.

WORM GEAR BOX

Horisental Input





Dimension

DIM / MODEL	TYPE	FLANGE SIZE	BASE PART ØD1	PCD D2	PCD N-H-DP	BASE PART ØD3	BASE PART H	EXTERNAL PART H1	H2	K	K1	K2	K3	L	L1	INPUT SHAFT PART L2	ØPD	KEY	HAND WHEEL ØM
GB-BF	A	F07	55	70	4-M8-12	90	3	40	113	58	28	35	132	53	91	26	16	6	160
GB-00		F07 & F10	70	102	4-M10-15	125	3	55	150	70	33	49	149	71	103	26	16	6	250
GB-0		F12	85	125	4-M12-18	150	3	66	181	91	48	51	193	83	134	31	21	6	300
GB-01		F14	100	140	4-M16-24	175	4	75	203	94	48	61	292	93	145	31	21	6	400
GB-02		F16	130	165	4-M20-30	210	5	92	245	110	64	68	334	113	194	40	28	8	500
GB-03	B	F20	140	205	8-M16-24	250	5	111	284	111	57	67	384	125	212	40	28	8	600
GB-04		F25	200	254	8-M16-24	300	5	144	349	124	63	99	434	158	254	40	28	8	650
GB-05		F30	230	298	8-M20-30	350	5	160	398	146	71	101	467	190	291	52	45	14	700
GB-06		F35	260	356	8-M30-45	415	5	200	470	169	91	119	497	224	322	52	45	14	750

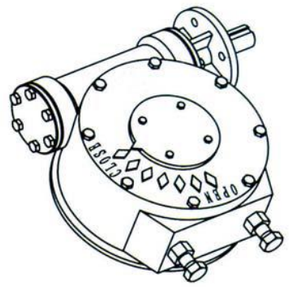


Bushing Type
Splines enable accurate alignment of valve stem key.

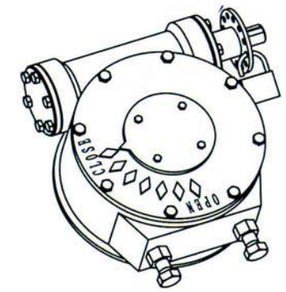
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Worm Gear Box Option



Worm Gear can be provided with Flange for connecting with actuator.
It follows ISO NO.5210.



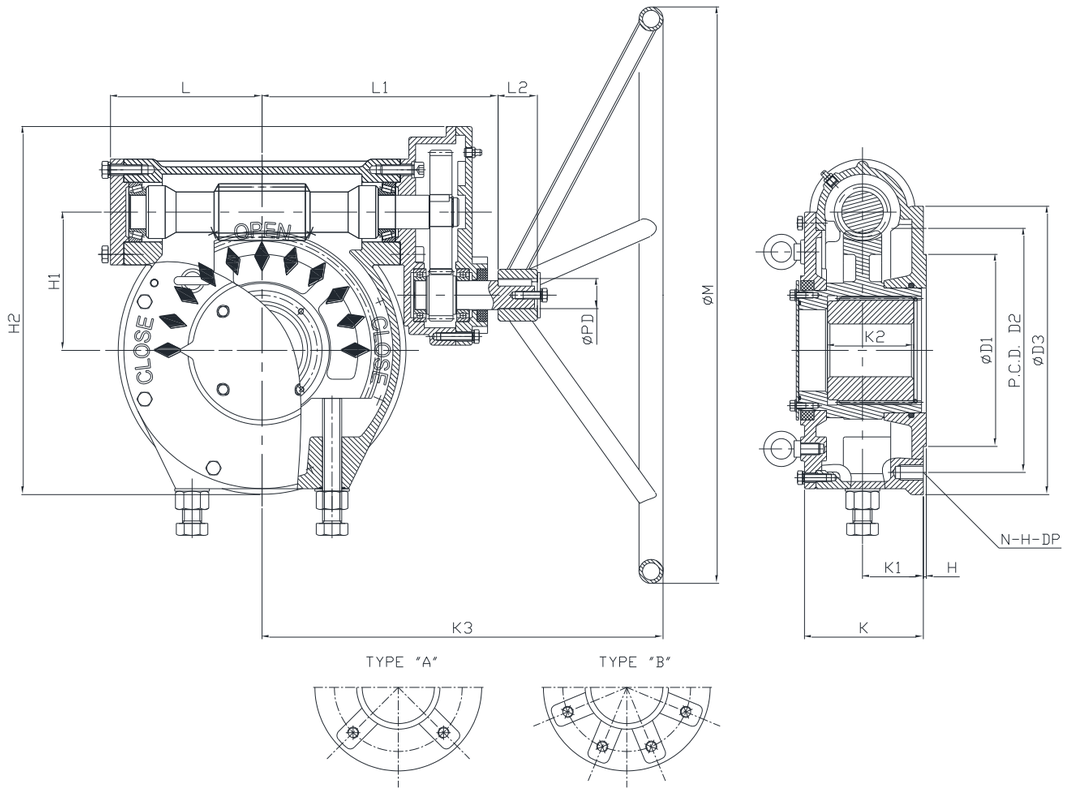
This device is useful to control lock which avoid unnecessary working.

Selection Chart for Manual Operation

SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity N · m	MAX. Torque Capacity Ft · lbf	WEIGHT Kg
GB-BF	28 : 1	18 (6x6)	F07	380	39	4
GB-00	33 : 1	28 (8x7)	F10	500	51	6
GB-0	39 : 1	35 (10x8)	F12	980	100	10
GB-01	46 : 1	45 (14x9)	F14	1400	143	13
GB-02	49 : 1	55 (18x11)	F16	2500	255	22
GB-03	60 : 1	65 (20x12)	F20	4000	478	31
GB-04	68 : 1	80 (22x14)	F25	6050	617	50
GB-05	59 : 1	105 (28x16)	F30	7000	714	80
GB-06	67 : 1	115 (32x18)	F35	8500	867	90

WORM GEAR BOX

Horisental Input with single Reduction Gear Attachment



Dimension

DIM / MODEL	BASE PART							EXTERNAL PART								INPUT SHAFT PART			HAND WHEEL
	TYPE	FLANGE SIZE	ØD1	P.C.D D2	P.C.D N-H-DP	ØD3	H	H1	H2	K	K1	K2	K3	L	L1	L2	ØPD	KEY	ØM
GB-0-1S	A	F12	85	125	4-M12-18	150	3	66	200	91	48	51	257	81	158	31	21	6	300
GB-01-1S		F14	100	140	4-M16-24	175	4	75	222	94	48	61	268	93	168	31	21	6	350
GB-02-1S		F16	130	165	4-M20-30	210	5	92	286	110	64	68	305	113	205	40	28	6	450
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GB-04-1S		F25	200	254	8-M16-24	300	5	144	383	124	63	99	418	158	246	40	28	8	600
GB-05-1S		F30	230	298	8-M20-30	350	5	160	453	143	71	101	511	190	331	40	28	8	650
GB-06-1S		F35	260	356	8-M30-45	415	5	200	525	169	91	119	545	224	365	40	28	8	700

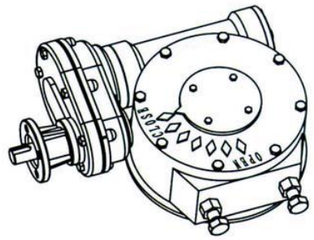


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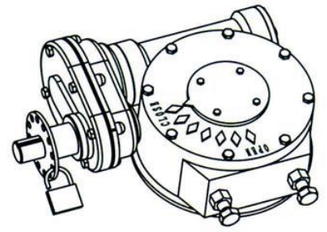
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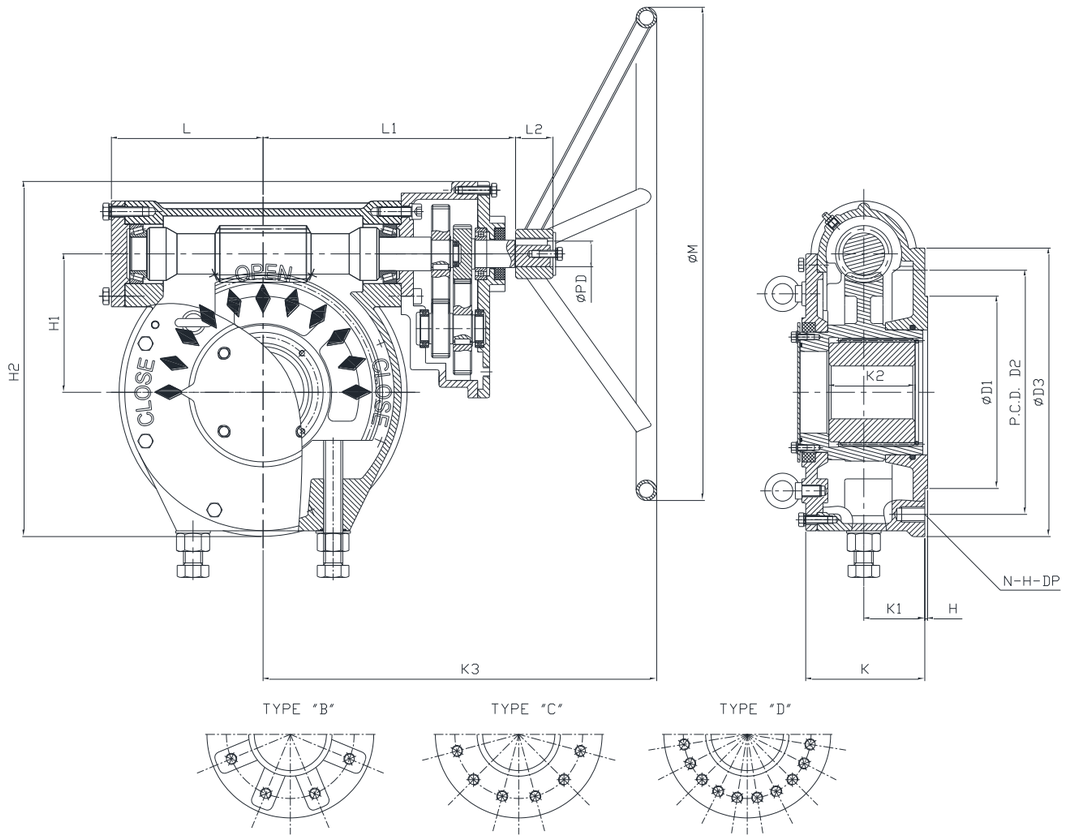
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Selection Chart for Manual Operation

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GB-0-1S	63 : 1	35 (12x8)	F12	1000	102	13
GB-01-1S	74 : 1	45 (14x9)	F14	1850	188	16
GB-02-1S	128 : 1	55 (18x11)	F16	3000	306	33
GB-03-1S	157 : 1	65 (20x12)	F20	4680	408	41
GB-04-1S	178 : 1	80 (22x14)	F25	6500	663	60
GB-05-1S	179 : 1	105 (28x16)	F30	10000	1020	100
GB-06-1S	203 : 1	115 (32x18)	F35	15000	1531	120

WORM GEAR BOX

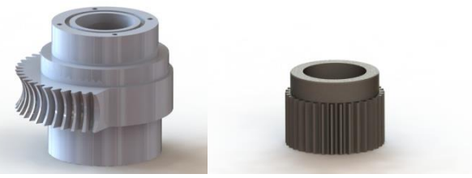
Horisental Input with double Reduction Gear Attachment



Dimension

DIM / MODEL	BASE PART							EXTERNAL PART								INPUT SHAFT PART			HAND WHEEL
	TYPE	FLANGE SIZE	ØD1	P.C.D D2	P.C.D N-H-DP	ØD3	H	H1	H2	K	K1	K2	K3	L	L1	L2	ØPD	KEY	ØM
GB-04-1SD	B	F25	200	254	8-M16-24	300	5	144	389	124	63	99	459	158	287	40	28	8	600
GB-05-1SD		F30	230	298	8-M20-30	350	5	160	440	143	71	101	494	190	314	40	28	8	650
GB-06-1SD		F35	260	356	8-M30-45	415	5	200	512	169	91	119	528	224	348	40	28	8	700
GB-07-1SD		F40	300	406	8-M36-54	475	8	225	583	192	103	155	570	237	395	50	38	10	750
GB-08-1SD	C	F48	370	483	12-M36-54	560	8	270	670	201	101	155	613	279	438	50	38	10	800
GB-09-1SD	D	F60	470	603	20-M36-54	686	8	335	834	214	114	-	700	335	500	52	45	2-14	800
GB-10-1SD								430	958	282	140	-	829	387	629	52	45	2-14	800
GB-11-1SD								513	1191	351	161	-	997	434	761	52	45	2-14	1000



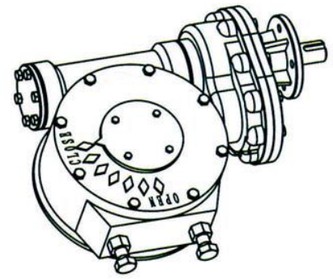


Bushing Type
Splines enable accurate alignment of valve stem key.

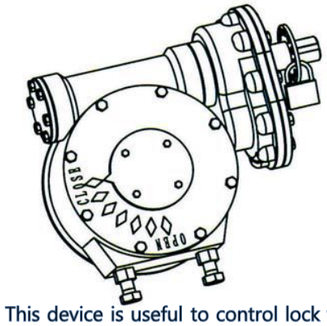
FEATURE

- All mounting bases conform to ISO 5210/1 standards.
- All castings are ductile iron, Class 65-45-12.
- Stem nut(bush) is not unibody. Splined busing permit accurate positioning between gear drive and valve stem.
- Superior quality, excellent strength, impact resistance and sophisticated design.

Worm Gear Box Option



Worm Gear can be provided with Flange for connecting with actuator.
It follows ISO NO.5210.



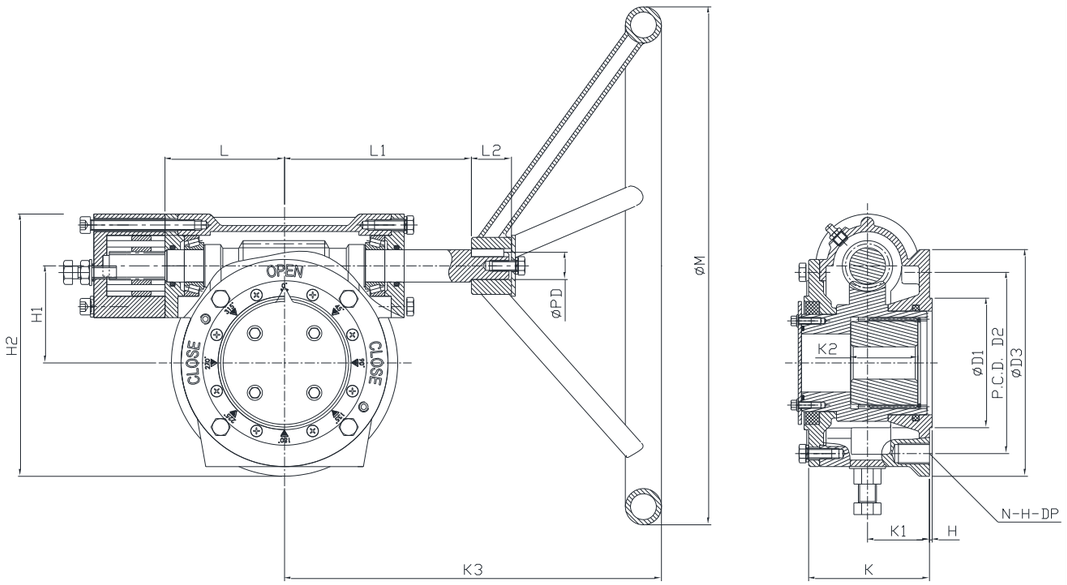
This device is useful to control lock which avoid unnecessary working.

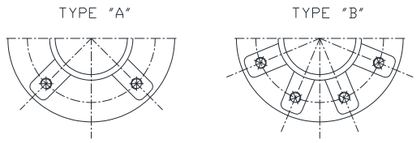
Selection Chart for Manual Operation

SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity		WEIGHT
				N · m	Ft · lbf	Kg
GB-04-1SD	220 : 1	80 (22x14)	F25	8000	816	65
GB-05-1SD	260 : 1	105 (28x16)	F30	15000	1530	110
GB-06-1SD	295 : 1	115 (32x18)	F35	18000	1836	130
GB-07-1SD	426 : 1	140 (36x20)	F40	28000	2857	160
GB-08-1SD	514 : 1	155 (40x22)	F48	53000	5408	260
GB-09-1SD	1168 : 1	170 (45x25)	F60	95000	9693	480
GB-10-1SD	1517 : 1	250 (56x32)	F60	180000	18367	790
GB-11-1SD	1537 : 1	300 (70x36)	F60	250000	25510	1200

WORM GEAR BOX

Horisental input with Various Angle





Dimension

DIM / MODEL	BASE PART							EXTERNAL PART								INPUT SHAFT PART			HAND WHEEL
	TYPE	FLANGE SIZE	ØD1	PCD D2	PCD N-H-DP	ØD3	H	H1	H2	K	K1	K2	K3	L	L1	L2	ØPD	KEY	ØM
GBW-BF	A	F07	55	70	4-M8-12	90	3	40	113	58	28	35	132		91	26	16	6	160
GBW-00		F07 & F10	70	102	4-M10-15	125	3	55	150	70	33	49	149		103	26	16	6	250
GBW-0		F12	85	125	4-M12-18	150	3	66	181	91	48	51	193		134	31	21	6	300
GBW-01		F14	100	140	4-M16-24	175	4	75	203	94	48	61	292		145	31	21	6	400
GBW-02		F16	130	165	4-M20-30	210	5	92	245	110	64	68	334		194	40	28	8	500
GBW-03	B	F20	140	205	8-M16-24	250	5	111	284	111	57	67	384		212	40	28	8	600
GBW-04		F25	200	254	8-M16-24	300	5	144	349	124	63	99	434		254	40	28	8	650
GBW-05		F30	230	298	8-M20-30	350	5	160	398	146	71	101	467		291	52	45	14	700
GBW-06		F35	260	356	8-M30-45	415	5	200	470	169	91	119	497		322	52	45	14	750



Bushing Type

Splines enable accurate alignment of valve stem key.

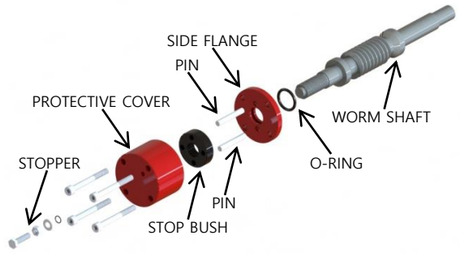
FEATURE

- All mounting bases conform to ISO 5210/1 standards.
- All castings are ductile iron, Class 65-45-12.
- Stem nut(bush) is not unibody. Splined busing permit accurate positioning between gear drive and valve stem.
- Superior quality, excellent strength, impact resistance and sophisticated design.

Various Angle Option

The stopper and stop bush of worm gear bo x with various angle on valve are already.

If the exact position of the valve can not be seen through key direction at the valve shaft, the worm gear box may have to be removed the valve.



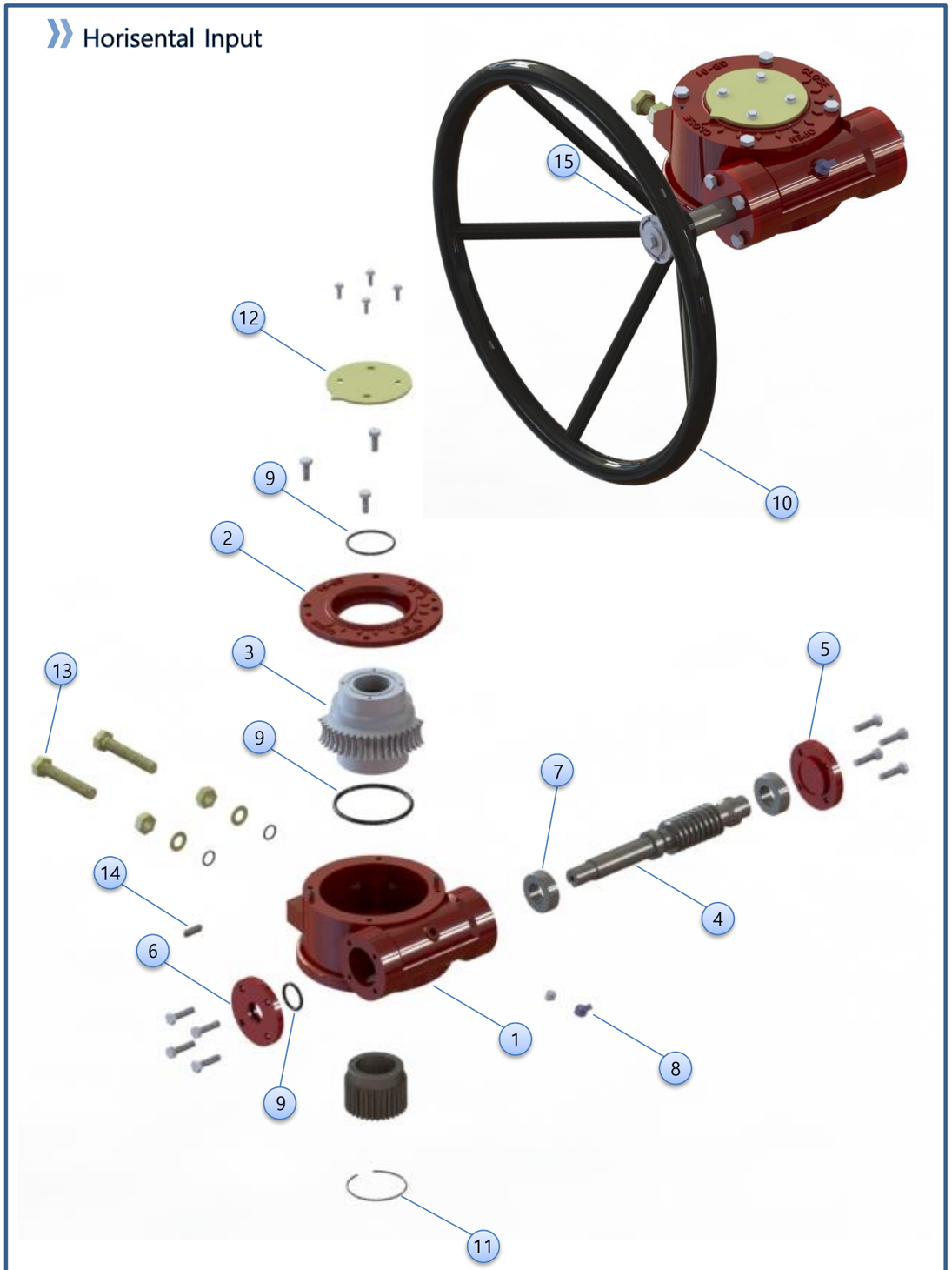
1. In case stopper and stop bush are adjusted set OPEN position, turn valve manually to OPEN position.
2. Remove all bolts at protective cover first, and take off the protective cover.
3. Place stop bush in the required position.
4. Turn stopper bolt & nut to be adjusted. If the end of stopper bolt reaches the stop bush, the position is CLOSE.

Selection Chart for Manual Operation

SIZE / MODEL	GEAR RATIO	MAX. Stem Acceptance	Mounting option & Standard	MAX. Torque Capacity N · m	MAX. Torque Capacity Ft · lbf	WEIGHT Kg
GBW-BF	28 : 1	18 (6x6)	F07	380	39	4
GBW-00	33 : 1	28 (8x7)	F10	500	51	6
GBW-0	39 : 1	35 (10x8)	F12	980	100	10
GBW-01	46 : 1	45 (14x9)	F14	1400	143	13
GBW-02	49 : 1	55 (18x11)	F16	2500	255	22
GBW-03	60 : 1	65 (20x12)	F20	4000	478	31
GBW-04	68 : 1	80 (22x14)	F25	6050	617	50
GBW-05	59 : 1	105 (28x16)	F30	7000	714	80
GBW-06	67 : 1	115 (32x18)	F35	8500	867	90

WORM GEAR BOX ASSEMBLY

Horisental Input



Part list & Material

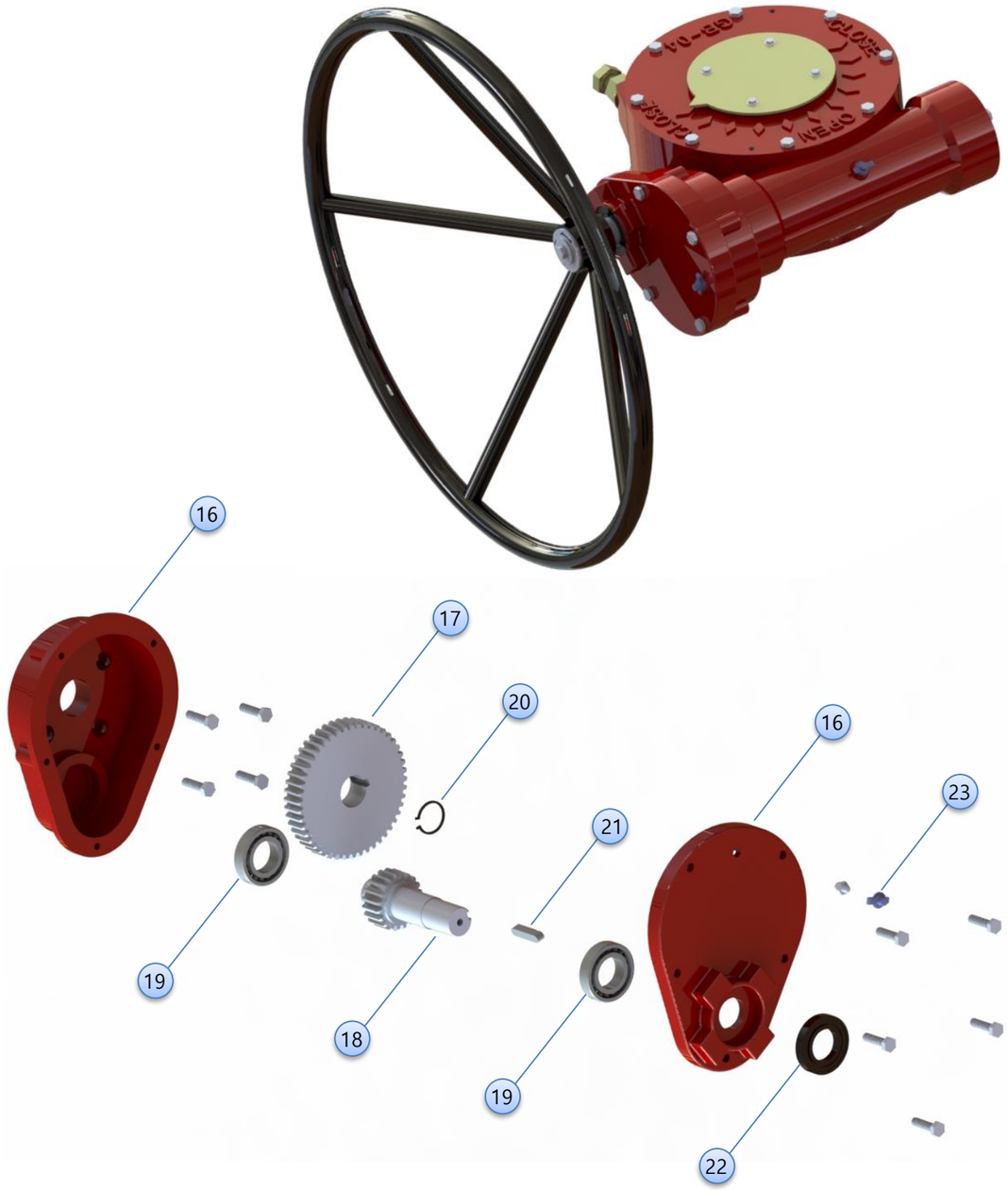
No.	DESCRIPTTION	MATERIAL			REMARK
		NAME	JIS	ASTM	
1	BODY	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
2	COVER	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
3	WORM GEAR	DUCTILE IRON	FCD-600	A536-80-55-06	B1486-C-95800 (ALBC3)
4	WORM SHAFT	ALLOY STEEL	SCM440	A322-4140	NOTE
5	SIDE FLANGE	CARBON STEEL	S45C	A576-1045	
6	STEM NUT	DUCTILE IRON	FCD-450	A536-65-45-12	
7	BALL BEARING	SPECIAL STEEL	SUJ2	A295-52100	
8	GREASE NIPPLE	CARBON STEEL	S20C + Zn	A576-1020	
9	O-RING	Buna N	NBR		NOTE
10	HANDWHEEL	STEEL PIPE	STPG	A53	NOTE
11	FIX SPRING	SPECIAL STEEL	SK5	W1-8	
12	INDICATOR	CARBON STEEL	S20C + Zn	A576-1020	
13	STOPPER	ALLOY STEEL	SCM440	A322-4140	
14	KEY	CARBON STEEL	S45C	A576-1045	NOTE
15	NAMEPLATE	ALUMINUM			NOTE

Material detail : Options and material changes

- All castings are ductile iron, FCD-450 (Class 65-45-12)
- GUMBO offers a wide variety of Handwheels, Locking Devices, Chainwheels, etc.
- Paint : Unless specified, units are supplied with vp184 Red epoxy primer, GUMBO can provide finish coating upon request.

WORM GEAR BOX ASSEMBLY

Horisental Input with single Reduction Gear Attachment



Part list & Material

No.	DESCRIPTTION	MATERIAL			REMARK
		NAME	JIS	ASTM	
1	BODY	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
2	COVER	DUCTILE IRON	FCD-450	A536-65-45-12	NOTE
3	WORM GEAR	DUCTILE IRON	FCD-600	A536-80-55-06	B1486-C-95800 (ALBC3)
4	WORM SHAFT	ALLOY STEEL	SCM440	A322-4140	NOTE
5	SIDE FLANGE	CARBON STEEL	S45C	A576-1045	
6	STEM NUT	DUCTILE IRON	FCD-450	A536-65-45-12	
7	BALL BEARING	SPECIAL STEEL	SUJ2	A295-52100	
8	GREASE NIPPLE	CARBON STEEL	S20C + Zn	A576-1020	
9	O-RING	Buna N	NBR		NOTE
10	HANDWHEEL	STEEL PIPE	STPG	A53	NOTE
11	FIX SPRING	SPECIAL STEEL	SK5	W1-8	
12	INDICATOR	CARBON STEEL	S20C + Zn	A576-1020	
13	STOPPER	ALLOY STEEL	SCM440	A322-4140	
14	KEY	CARBON STEEL	S45C	A576-1045	NOTE
15	NAMEPLATE	ALUMINUM			NOTE

16	REDUCTION BODY	DUCTILE IRON	FCD-450	A536-65-45-12	
17	REDUCTION GEAR	DUCTILE IRON	FCD-600	A536-80-55-06	
18	REDUCTION SHAFT	ALLOY STEEL	SCM440	A322-4140	
19	REDUCTION BALL BEARING	SPECIAL STEEL	SUJ2	A295-52100	
20	REDUCTION FIX SPRING	SPECIAL STEEL	SK5	W1-8	
21	REDUCTION KEY	CARBON STEEL	S45C	A576-1045	NOTE
22	REDUCTION RETAINER	Buna N	NBR		NOTE

Material detail : Options and material changes

- All castings are ductile iron, FCD-450 (Class 65-45-12)
- GUMBO offers a wide variety of Handwheels, Locking Devices, Chainwheels, etc..
- Paint : Unless specified, units are supplied with vp184 Red epoxy primer, GUMBO can provide finish coating upon request.