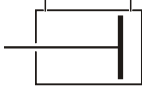
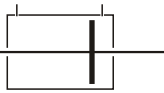
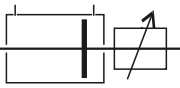


MGHC2 TIE ROD CYLINDER FOR MAGNETIC SENSORS

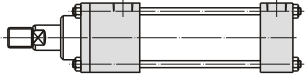
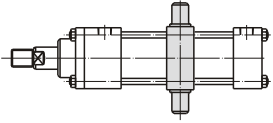
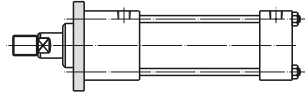
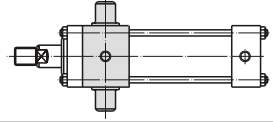
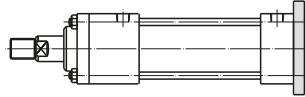
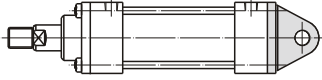
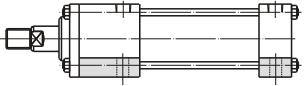

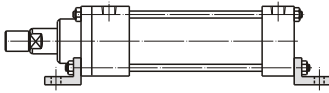


- Magnet sensor can be attached as position signal transmission
- Adopt four-position tie rod structure design, versatile and easy to maintain
- Designed and manufactured according to Japan standard specifications JIS-B8367
- All seals are made of well-known foreign brand specifications
- Multiple installation options available
- Use stainless steel pipe
- Piston with magnet

TYPE

Type	Mark	Graphics	Heat/acid & alkali resistance	Dust cover	Bore (mm)
Double acting cylinder	MGHC2-A		MGHC2-AJ	MGHC2-AH	32,40,50,63 80,100,125 150
Double rods cylinder	MGHC2-C		MGHC2-CJ	MGHC2-CH	
Double rods cylinder with stroke adjustment	MGHC2-D		MGHC2-DJ	MGHC2-DH	

INSTALLATION FORM

Mark	Type	Graphics	Mark	Type	Graphics
SD	Basic		TC	Mid trunnion	
FA	Rod flange		TA	Rod trunnion	
FB	Head flange		CA	Clevis	
LA	Foot fange		CB	Dual clevis	
LB	End fange				

Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

SEAL MATERIAL

Material Symbol	(NBR)	(PU)	(FPM)
	Oil	1	2
Mineral	○	○	○
Water solution	○	×	○
Soluble	○	×	○
Phosphate ester	×	×	○
Temperature	-10°C~+80°C		-10°C ~ 150°C
Viscosity	20 ~ 400mm ² /s{cst}		

Note:

- 1.Mineral oil: ISO-VG32
- 2.If mineral oil is used,NBR will be used without specify selections of material.
- 3.If phosphate ester oil is used or high temperature is applied, will shown as symbol J
- 4.Symbol ○ = ok, X = cannot be used.
- 5.Temperature of FPM must set below 150°C when operate long time.

ISO Specifications Cylinders

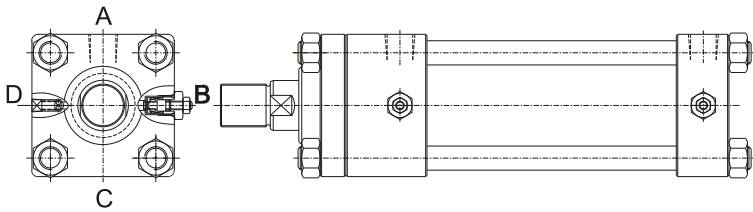
Round Hydraulic Cylinders

Specific Hydraulic Cylinders

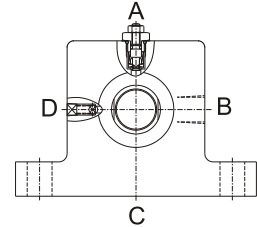
Systems & Fittings

PORT AND CUSHION POSITIONS

■ SD type



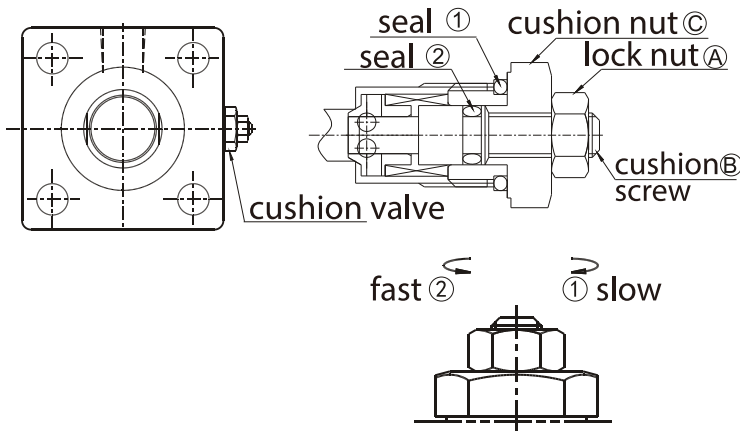
■ LA type



Standard location A = input port B = cushion position D = check valve position
Type representation : HC2-A-70-LA-C-100X200-B-B-A Oil inlet : B cushion aligning valve : A

USE OF CUSHION VALVES

■ Adjustment steps



1. Turn lock nut ④ toward counter clockwise with 1/4 circle by wrench.

2. Use wrench to lock cushion nut ③ tightly to prevent ① ② oil spill.

3. Use screwdriver to adjust speed of ⑤ ' ① clockwise: rod speed will slow down ② counter clockwise: rod speed will increase

4. After alignment, fix ⑤ with hex wrench then tighten ④

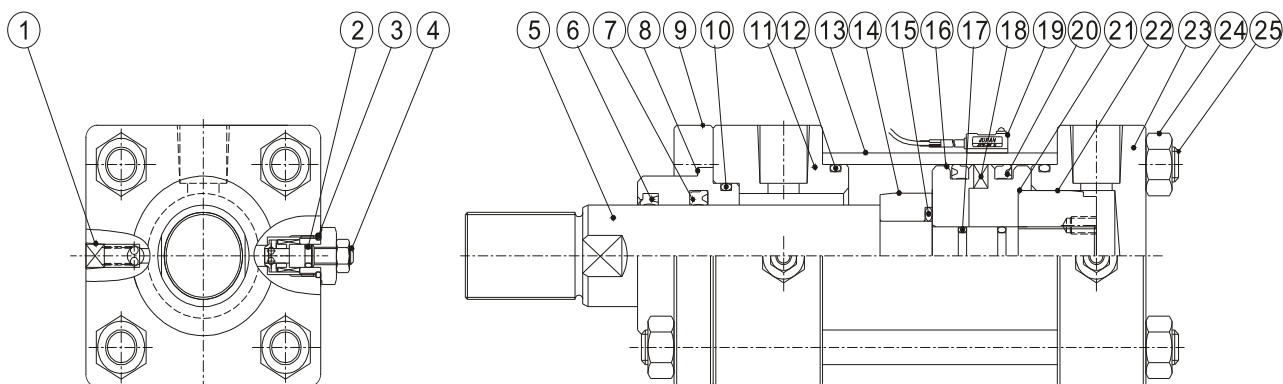
Note: Loose lock nut ④ before adjust ⑤.

BUFFER LENGTH

Bore(mm)	L	I
32 ~ 62	20	10
80 ~ 160	25	15
180 ~ 224	30	27
250	35	32

- When the operating speed of the hydraulic cylinder reaches 500mm/s or above after being loaded, consider using a buffer device
- If reaching a higher speed, install an external deceleration valve

INTERNAL STRUCTURE AND PART NAMES



Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

ISO Specifications Cylinders

Round Hydraulic Cylinders

Specific Hydraulic Cylinders

Systems & Fittings

Item	Part name	Qty	Item	Part name	Qty
①	Check and vent valve	2	⑭	Rod cushion	1
②	Valve O ring	2	⑮	Cushion O ring	1
③	Valve O ring	2	⑯	Rod piston	1
④	Cushion adjusting valve	2	⑰	Piston O ring	2
⑤	Piston rod	1	⑱	Induction magnet	1
⑥	Rod dust seal	1	⑲	Magnetic sensor	2
⑦	Rod seal	1	⑳	Piston seal	2
⑧	Bush	1	㉑	End piston	1
⑨	Board	1	㉒	Head cushion	1
⑩	Bush O ring	1	㉓	Head cover	1
⑪	Rod cover	1	㉔	Tie-rod nut	8
⑫	Cover O ring	2	㉕	Tie-rod	4
⑬	Tube	1			

SEAL SPEC.

Item	②	③	⑥	⑦	⑩	⑫	⑮	⑰	⑳	
Name	Valve O ring	Valve O ring	Rod dust seal	Rod seal	Bush O ring	Cover O ring	Cushion O ring	Piston O ring	Piston seal	
	Qty	2	2	1	1	1	2	2	2	
Bore										
Rod										
32	C	P5	P11	16×24×6	16×24×5	G25	G25 Cushioning SM32	SM12	P10	24×32×5
	B			20×28×6	20×28×5					
40	C	P5	P11	20×28×6	20×28×5	G30	G35 Cushioning SM32	SM14	P10A	30×40×6
	B			25×33×6	25×33×5					
50	C	P5	P11	25×33×6	25×33×5	G35	G45	SM20	AP14	40×50×6
	B			30×38×6.5	30×40×6					
63	C	P5	P11	30×38×6.5	30×40×6	G45	G58	P24	P20	53×63×6
	B			35×43×6.5	35×45×6					
80	C	P5	P11	35×43×6.5	35×45×6	G50	G75	G30	G25	70×80×6
	B			40×48×6.5	40×50×6					
100	C	P5	P11	40×48×6.5	40×50×6	G65	G95	G35	G30	85×100×9
	B			56×64×6.5	56×66×6			G45	G40	
125	C	P6	P14	56×64×6.5	56×66×6	G85	G120	G45	G40	112×125×8.5
	B			70×80×8	70×80×6			G50	G45	

ORDER INDICATION

MGHC2	A	70		SD	C	100	200ST			Txn															
<p>Type</p> <p>A:Double acting cylinder B:Biaxial cylinder C:Double acting cylinder with adjustable stroke</p> <p>Working pressure</p> <p>70 :Working pressure 70 kgf/cm² 140:Working pressure 140 kgf/cm²</p> <p>Performance</p> <p>Blank = indicates standard H:Shaft with dust cover J:Heat/acid & alkali resistance (Max.tem.150 °C)</p> <p>Installationform</p> <p>SD:Basic FA:Rod flange FB:Head flange CA:Clevis CB:Dual clevis LA:foot flange LB:End flange TA:Rod trunnion TC:Mid trunnion</p> <p>Shaft diameter</p> <p>C:C diameter B:B diameter Note: 1. HC2-70 with C Standard cylindershaft diameter 2. Standard cylinderHC2-140 with C-shaft diameter 3. Please specify when HC2-70+ B or HC2-140+C</p> <p>Bore (mm)</p> <p>32 , 40 , 50 , 63 , 80 , 100 , 125 , 150</p> <p>Stroke</p> <p>Blank = indicates standard Refer to maximum stroke in P.031</p>										<p>Seal material</p> <p>Blank =standard (NBR) 2:PU 3:FPM</p>		<p>Cushion position</p> <p>Blank =standard refer to P047</p>		<p>Port position</p> <p>Blank =standard(NBR) refer to P047</p>		<p>Adjustable stroke</p> <p>Limit: Dual-axis forward adjustable stroke cylinder,adjustable cylinderPlease select the standard length :25 or 50mm</p>		<p>Induction switch specification</p> <p>Black: 1.JFS-01 : (basic) 2.JFS-01CC : Separate switch group (contain01AA+01BB)</p>		<p>Switch connection and number</p> <p>T: 2 outlet lines, the standard line length is 2 meters P: PNP3 outlet line, standard line length 2 meters N: NPN3 outgoing lines, the standard line length is 2 meters n: Quantity</p>		<p>Shaft end joint</p> <p>Y : Y connector I : I connector</p>		<p>Cushion</p> <p>Blank = indicates standard(no cushion) B : Cushion on both ends R : Cushion on rod cover H : Cushion on head cover</p>	

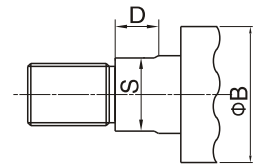
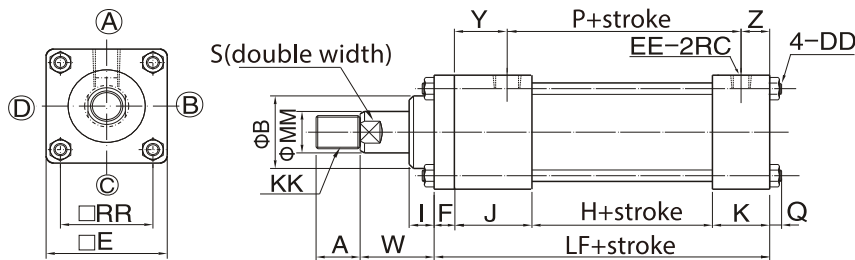
- Tie-rod Hydraulic Cylinder
- Mold Hydraulic Cylinders
- Swivel & Clamp Hydraulic Cylinders
- Booster Cylinders & Unclamping cylinders
- ISO Specifications Cylinders
- Round Hydraulic Cylinders
- Specific Hydraulic Cylinders
- Systems & Fittings

▲ Blank field: Indicates a standard product and does not need to be marked when ordering

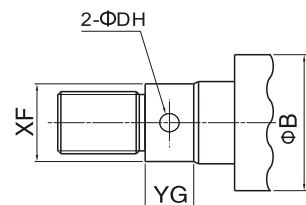
Note: For all cylinders with induction switches, in order to prevent induction switch failure, please pay attention to the following three points:①. The minimum stroke must be more than 20mm (inclusive).
②. The operating temperature range is -25~+70 °C
③. The cylinder cannot be installed in a magnetic field with a magnetic field strength greater than 1Ka/m.Soft magnetic materials and soft magnetic iron filings are prohibited near the cylinder.

EXTERNAL DIMENSIONS

● MGHC2-A-SD Double acting(basic)

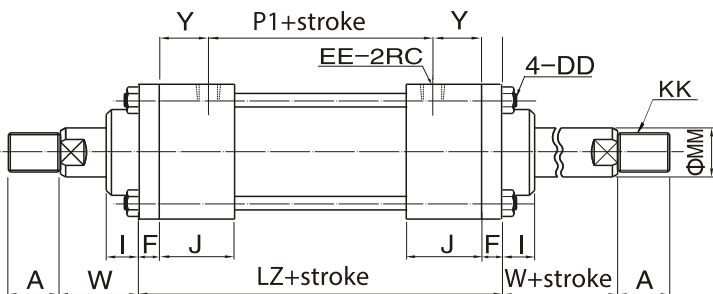


Bore < 80mm

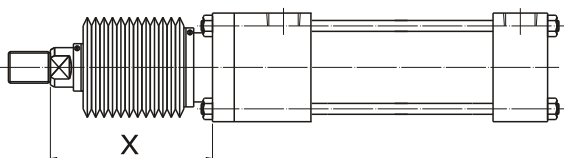


Bore ≥ 80mm

● MGHC2-C-SD Double rod(basic)



With bellows(MGHC2-A-H)



Symbol Shaft	DH	XF	YG
80	10	79	20
85	10	84	20
90	10	89	20
100	12	99	24
112	12	109	24
125	12	124	24
140	12	139	24

Symbol Bore	X
32.40.50	1/3.5×stroke+45
63.80.100	1/4×stroke+55
125.150 180.200	1/5×stroke+65
224.250	1/6×stroke+80

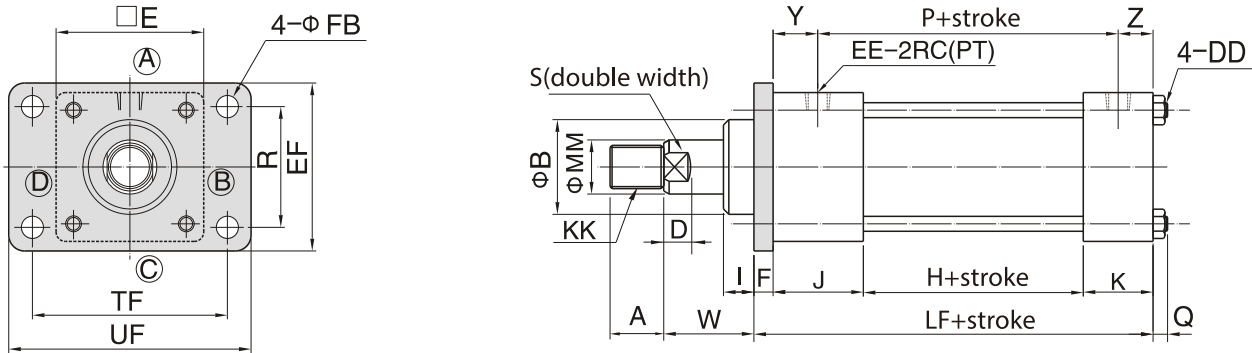
● Specifying the needed material while order.

- (1) N: NBR
- (2) V: F ≤ 150 °C

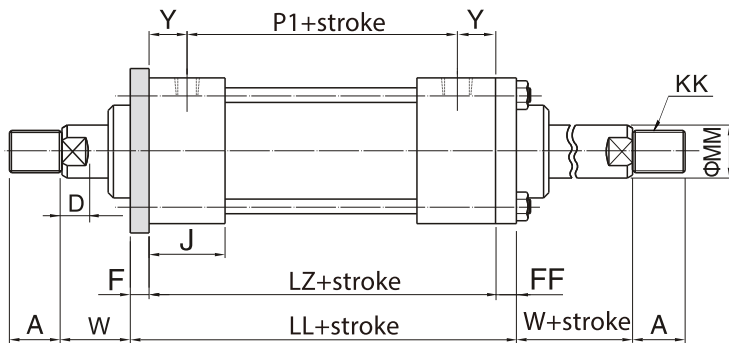
Symbol Bore	Bore class C			Bore class B			D		E	F	H	I	J	K	P	P1	Q	S		W	Y	Z	DD	EE	LF	LZ	RR	
	MM	KK	A	MM	KK	A	B	C										B	C									B
32	16	M12×1.5	18	20	M16×1.5	25	35	14	14	55	11	50	14	36	26	76	76	10	14	17	30	23	13	M10×1.5	3/8	123	144	40
40	20	M16×1.5	25	25	M20×1.5	30	40	14	14	65	11	50	14	36	26	76	76	10	17	21	30	23	13	M10×1.5	3/8	123	144	45
50	25	M20×1.5	30	30	M24×1.5	35	46	14	14	75	14	58	14	42	34	88	88	10	21	27	30	27	19	M10×1.5	3/8	148	170	52
63	30	M24×1.5	35	35	M30×1.5	45	55	17	17	90	15	58	14	42	34	88	88	12	27	32	35	27	19	M12×1.5	1/2	149	172	63
80	35	M30×1.5	45	40	M36×1.5	55	65	17	17	110	18	62	14	46	40	98	98	16	32	37	35	28	22	M16×1.5	1/2	166	190	80
100	40	M36×1.5	60	56	M48×1.5	70	80	20	22	135	20	74	14	50	40	114	114	17	37	50	40	30	20	M18×1.5	3/4	184	214	102
125	56	M48×1.5	75	70	M64×2.0	90	95	22	22	165	24	83	17	58	48	123	123	20	50	65	45	38	28	M22×1.5	3/4	213	247	122
150	65	M60×2.0	85	85	M76×2.0	110	110	22	-	196	28	89	19	58	48	129	129	24	62	-	50	38	28	M26×1.5	3/4	223	261	148

EXTERNAL DIMENSIONS

● MGHC2-A-FA Double acting(rod flange)



● MGHC2-C-FA Double rods(rod flange)



Symbol Bore	Bore class C			Bore class B			B	I		E	F		H	J	K	P	P1
	MM	KK	A	MM	KK	A		C	B		70kgf/cm ²	140kgf/cm ²					
	32	16	M12×P1.5	18	20	M16×P1.5		25	35		14	14					
40	20	M16×P1.5	25	25	M20×P1.5	30	40	14	14	65	11	11	50	36	26	76	76
50	25	M20×P1.5	30	30	M24×P1.5	35	46	14	10	75	14	18	58	42	34	88	88
63	30	M24×P1.5	35	35	M30×P1.5	45	55	14	9	90	15	20	58	42	34	88	88
80	35	M30×P1.5	45	40	M36×P1.5	55	65	14	8	110	18	24	62	46	40	98	98
100	40	M36×P1.5	60	56	M48×P1.5	70	80	14	6	135	20	28	74	50	40	114	114
125	56	M48×P1.5	75	70	M64×P2.0	90	95	17	8	165	24	33	83	58	48	123	124
150	65	M60×P2.0	85	85	M76×P2.0	110	110	19	8	196	28	39	89	58	48	129	132

Symbol Bore	S		D		Q	R	W	Y	Z	DD	EE	EF	FB	FF	LL		LF		LZ	TF	UF
	C	B	C	B											70kgf/cm ²	140kgf/cm ²	70kgf/cm ²	140kgf/cm ²			
	32	14	17	14											14	10	40	30			
40	17	21	14	14	10	46	30	23	13	M10×P1.5	3/8	69	11	11	144	144	123	123	122	95	118
50	21	27	14	14	10	58	30	27	19	M10×P1.5	3/8	85	14	14	170	174	148	152	142	115	145
63	27	32	17	17	12	65	35	27	19	M12×P1.5	1/2	98	18	15	172	177	149	154	142	132	165
80	32	37	17	17	16	87	35	28	22	M16×P1.5	1/2	118	18	18	190	196	166	172	154	155	190
100	37	50	20	22	17	109	40	30	20	M18×P1.5	3/4	150	22	20	214	222	184	192	174	190	230
125	50	65	22	22	21	130	45	38	28	M22×P1.5	3/4	175	26	24	247	256	213	222	199	224	272
150	62	-	22	-	25	155	50	38	28	M26×P1.5	3/4	210	30	28	261	272	223	234	205	270	320

- ▲ 1.MGHC2 working pressure: 70kgf/c m² with C-class shaft diameter, flange thickness "F" value of 70kgf/c m² thickness
- 2.MGHC2 working pressure: 140kgf/c m², 70kgf/c m² with B class shaft diameter, flange thickness "F" value of 140kgf/c m² thickness
- 3.MGHC2 working pressure: 140kgf/c m² with C-class shaft diameter, flange thickness "F" value of 140kgf/c m² thickness
Please pay special attention when ordering!

Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

ISO Specifications Cylinders

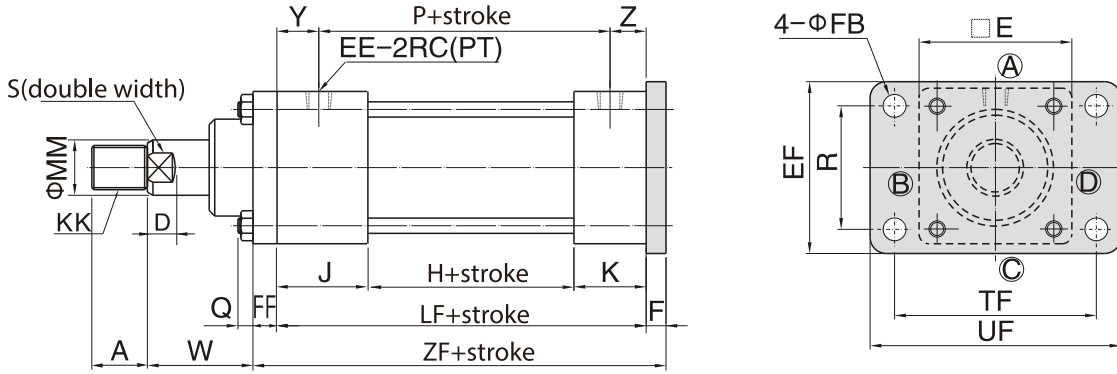
Round Hydraulic Cylinders

Specific Hydraulic Cylinders

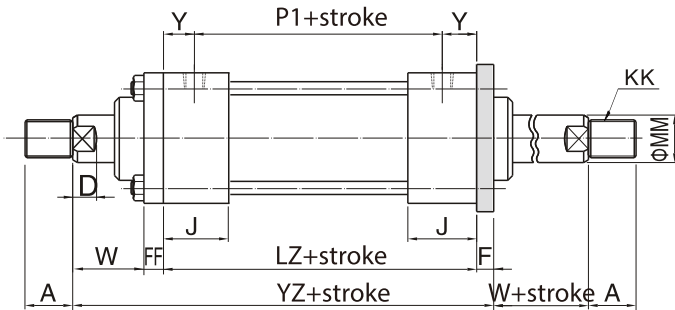
Systems & Fittings

EXTERNAL DIMENSIONS

● MGHC2-A-FB Double acting(head flange)



● MGHC2-C-FB Double rods(head flange)



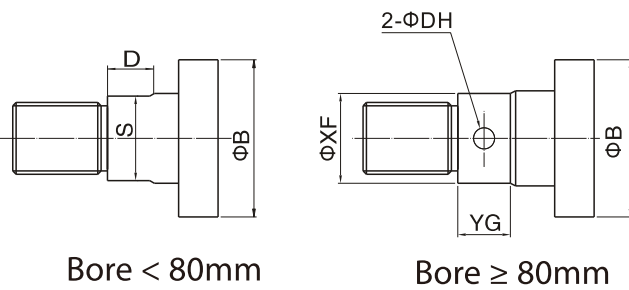
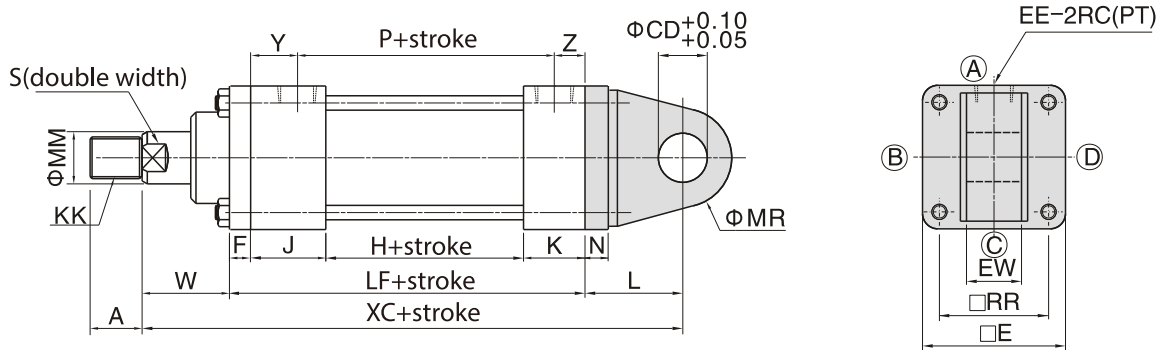
Symbol Bore	Bore class C			Bore class B			D		E	F		H	J	K	P	P1	Q	R
	MM	KK	A	MM	KK	A	C	B		70kgf/cm ²	140kgf/cm ²							
	32	16	M12×P1.5	18	20	M16×P1.5	25	14		14	55							
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	11	50	36	26	76	76	10	46
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	18	58	42	34	88	88	10	58
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	20	58	42	34	88	88	12	65
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	24	62	46	40	98	98	16	87
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	28	74	50	40	114	114	17	109
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	33	83	58	48	123	123	21	130
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	39	89	58	48	129	132	25	155

Symbol Bore	S		W	Y	Z	EE	EF	FB	FF	LF	TF	UF	ZF		YZ		LZ	
	C	B											70kgf/cm ²	140kgf/cm ²	70kgf/cm ²	140kgf/cm ²	C	B
	32	14											17	30	23	14	3/8	63
40	17	21	30	23	13	3/8	69	11	11	123	95	118	134	134	174	174	144	144
50	21	27	30	27	19	3/8	85	14	14	148	115	145	162	166	202	206	170	174
63	27	32	35	27	19	1/2	98	18	15	149	132	165	164	169	207	212	172	177
80	32	37	35	28	22	1/2	118	18	18	166	155	190	184	190	225	231	190	196
100	37	50	40	30	20	3/4	150	22	20	184	190	230	204	212	254	262	214	222
125	50	65	45	38	28	3/4	175	26	24	213	224	272	237	246	292	301	247	256
150	62	-	50	38	28	3/4	210	30	28	223	270	320	251	262	311	322	261	272

- ▲ 1.MGHC2 working pressure: 70kgf/c m² with C-class shaft diameter, flange thickness "F" value of 70kgf/c m² thickness
- 2.MGHC2 working pressure: 140kgf/c m², 70kgf/c m² with B class shaft diameter, flange thickness "F" value of 140kgf/c m² thickness
- 3.MGHC2 working pressure: 140kgf/c m² with C-class shaft diameter, flange thickness "F" value of 140kgf/c m² thickness
Please pay special attention when ordering!

EXTERNAL DIMENSIONS

- MGHC2-A-CA Double acting(clevis)



Symbol	DH	XF	YG
80	10	79	20
85	10	84	20
90	10	89	20
100	12	99	24
112	12	109	24
125	12	124	24
140	12	139	24

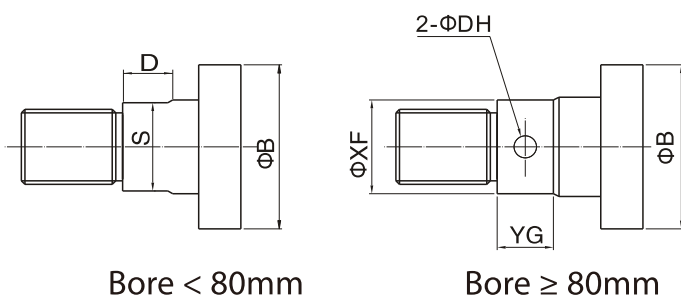
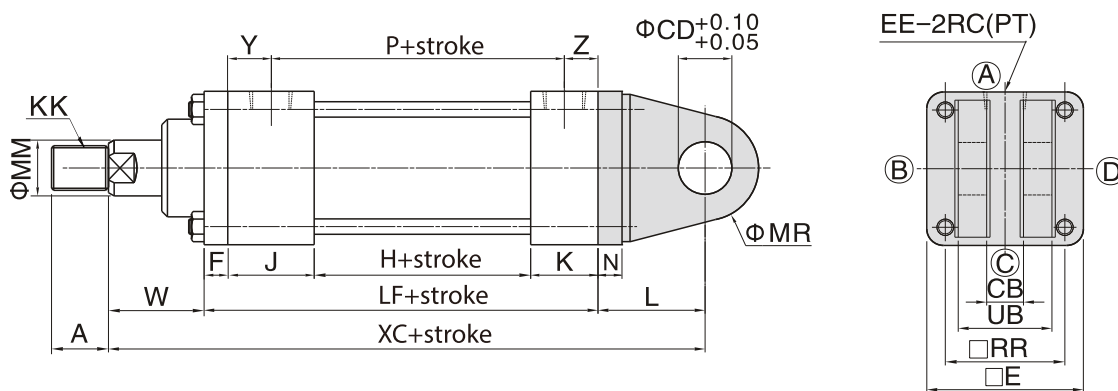
- Tie-rod Hydraulic Cylinder
- Mold Hydraulic Cylinders
- Swivel & Clamp Hydraulic Cylinders
- Booster Cylinders & Unclamping cylinders
- ISO Specifications Cylinders

- Round Hydraulic Cylinders
- Specific Hydraulic Cylinders
- Systems & Fittings

Symbol	Bore class C			Bore class B			D		E	F	H	J	K	L	P	S		W	Y	Z	CD	EE	EW	LF	MR	RR	XC	N
	MM	KK	A	MM	KK	A	C	B								C	B											
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	38	76	14	17	30	23	14	16	3/8	25	123	16	40	191	11
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	38	76	17	21	30	23	13	16	3/8	25	123	16	45	191	11
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	45	88	21	27	30	27	19	20	3/8	31.5	148	20	52	223	14
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	63	88	27	32	35	27	19	31.5	1/2	40	149	31.5	63	247	15
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	72	98	32	37	35	28	22	31.5	1/2	40	166	31.5	80	273	18
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	84	114	37	50	40	30	20	40	3/4	50	184	40	102	308	18
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	100	123	50	65	45	38	28	50	3/4	63	213	50	122	358	24
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	122	129	62	-	50	38	28	63	3/4	80	223	63	148	395	28

EXTERNAL DIMENSIONS

- MGHC2-A-CB Double acting(dual clevis)

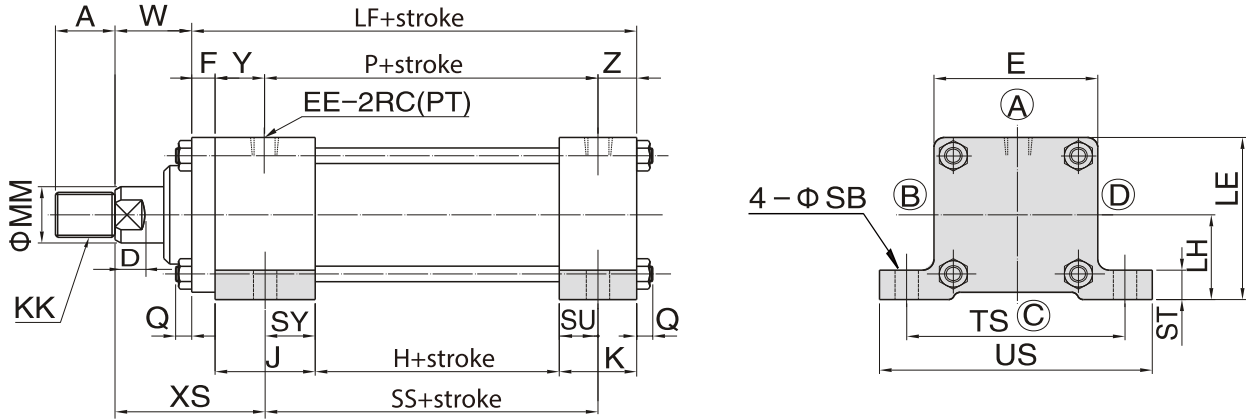


Symbol	DH	XF	YG
80	10	79	20
85	10	84	20
90	10	89	20
100	12	99	24
112	12	109	24
125	12	124	24
140	12	139	24

Symbol	Bore class C			Bore class B			D		E	F	H	J	K	L	P	S		W	Y	Z	CB	CD	EE	LF	MR	RR	UB	XC	N
	MM	KK	A	MM	KK	A	C	B								C	B												
	Bore																												
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	38	76	14	17	30	23	14	25	16	3/8	123	16	40	50	191	11
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	38	76	17	21	30	23	13	25	16	3/8	123	16	45	50	191	11
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	45	88	21	27	30	27	19	31.5	20	3/8	148	20	52	63.5	223	14
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	63	88	27	32	35	27	19	40	31.5	1/2	149	31.5	63	80	247	15
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	72	98	32	37	35	28	22	40	31.5	1/2	166	31.5	80	80	273	18
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	84	114	37	50	40	30	20	50	40	3/4	184	40	102	100	308	18
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	100	123	50	65	45	38	28	63	50	3/4	213	50	122	126	358	24
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	122	129	62	-	50	38	28	80	63	3/4	223	63	148	160	395	28

EXTERNAL DIMENSIONS

- MGHC2-A-LA Double acting (foot flange)



Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

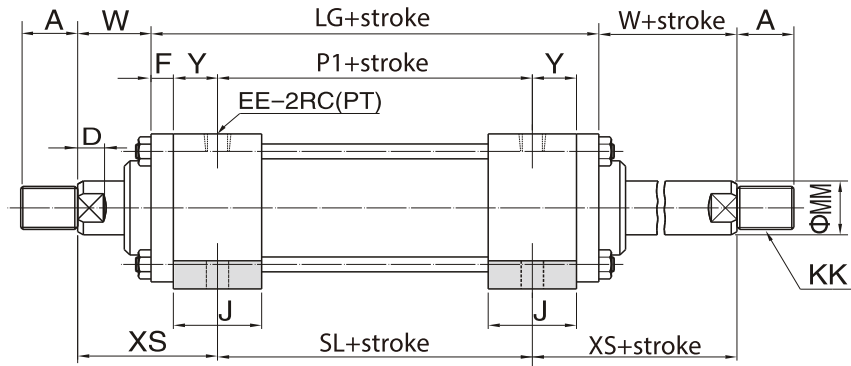
ISO Specifications Cylinders

Round Hydraulic Cylinders

Specific Hydraulic Cylinders

Systems & Fittings

- MGHC2-C-LA Double rods (foot flange)

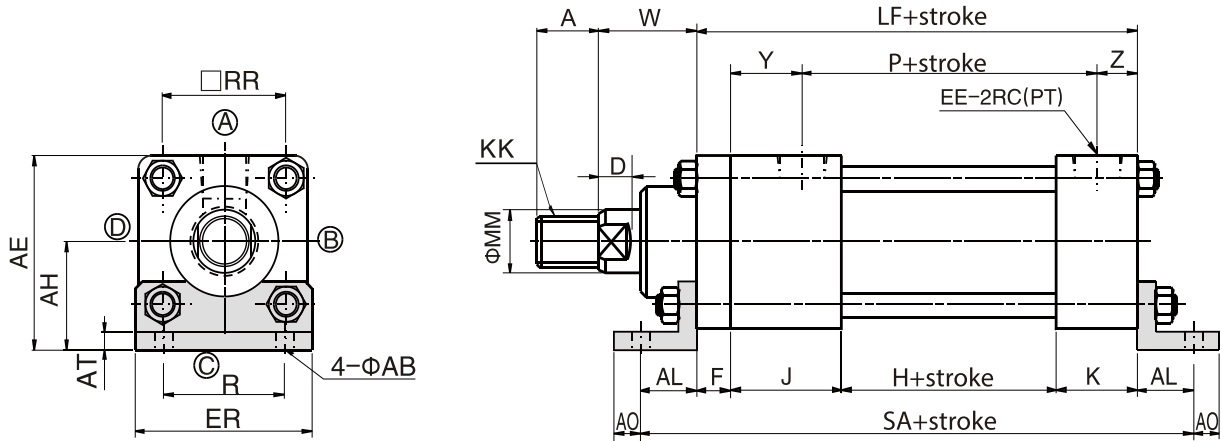


Symbol Bore	Bore class C			Bore class B			D		E	F	H	J	K	P	P1	Q	S	
	MM	KK	A	MM	KK	A	C	B									C	B
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	76	76	10	14	17
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	76	76	10	17	21
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	88	88	10	21	27
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	88	88	12	27	32
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	98	98	16	32	37
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	114	114	17	37	50
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	123	124	21	50	65
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	129	132	25	62	-

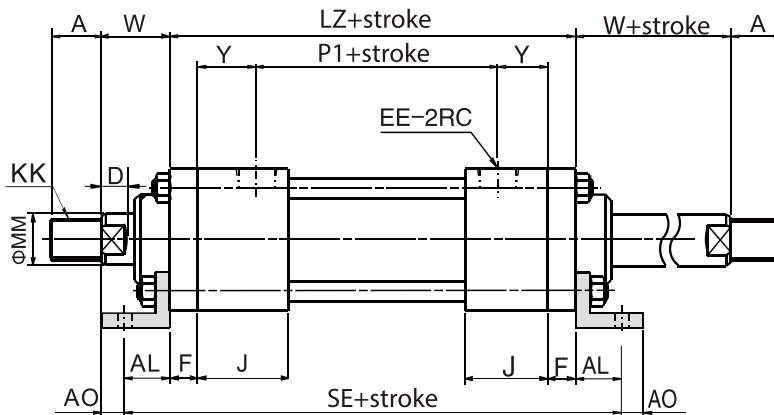
Symbol Bore	Y	Z	EE	LE	LF	LG	LH	SB	SL	SS	ST	SU	SY	TS	US	W	XS
32	23	14	3/8	62.5	123	144	35	11	86	81	14	13	18	88	109	30	59
40	23	13	3/8	70	123	144	37.5	11	86	81	14	13	18	95	118	30	59
50	27	19	3/8	82.5	148	170	45	14	100	96	17	17	21	115	145	30	65
63	27	19	1/2	95	149	172	50	18	100	96	19	17	21	132	165	35	71
80	28	22	1/2	115	166	190	60	18	108	105	25	20	23	155	190	35	76
100	30	20	3/4	138.5	184	214	71	22	124	119	27	20	25	190	230	40	85
125	38	28	3/4	167.5	213	247	85	26	141	136	32	24	29	224	272	45	98
150	38	28	3/4	204	223	261	106	30	147	142	37	24	29	270	320	50	107

EXTERNAL DIMENSIONS

- MGHC2-A-LB Double acting(end flange)



- MGHC2-C-LB Double rods(end flange)

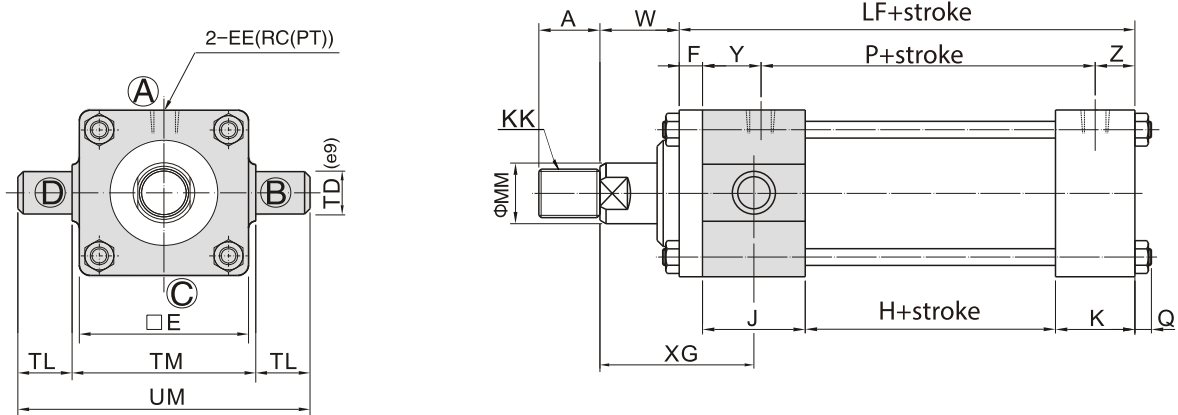


Symbol Bore	Bore class C			Bore class B			D		ER	F	H	J	K	P	P1	R	S		W
	MM	KK	A	MM	KK	A	C	B									C	B	
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	76	76	35	14	17	30
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	76	76	45	17	21	30
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	88	88	50	21	27	30
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	88	88	58	27	32	35
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	98	98	78	32	37	35
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	114	114	96	37	50	40
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	123	124	120	50	65	45
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	129	132	146	62	-	50

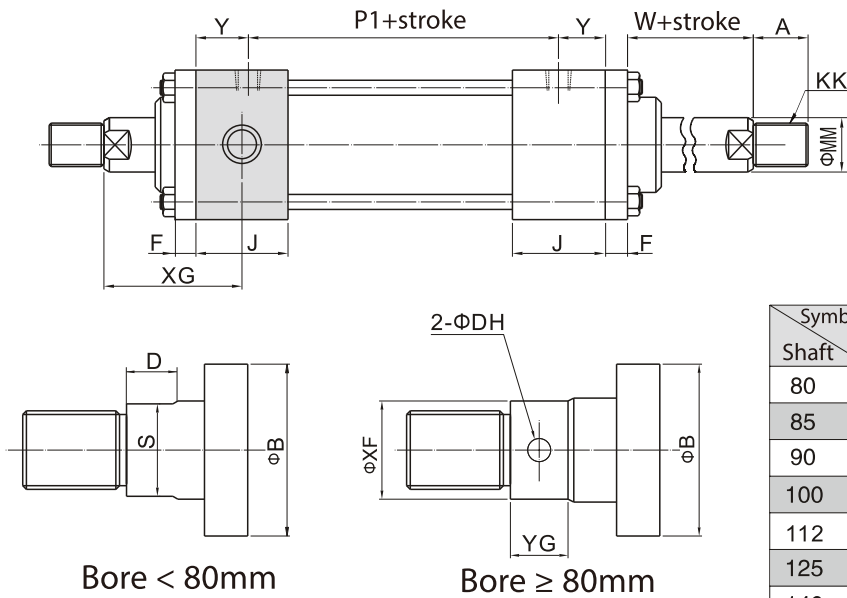
Symbol Bore	Y	Z	AB	AE	AH	AL	AO	AT	RR	EE	LF	LZ	SA	SE
32	23	14	11	67.5	40	32	13	6	40	3/8	123	144	187	208
40	23	13	11	75.5	43	32	13	6	45	3/8	123	144	187	208
50	27	19	14	87.5	50	35	15	6	52	3/8	148	170	218	240
63	27	19	18	105	60	42	18	8	63	1/2	149	172	233	256
80	28	22	18	127	72	50	20	9	80	1/2	166	190	266	290
100	30	20	22	152.5	85	55	20	12	102	3/4	184	214	294	324
125	38	28	26	187.5	105	66	29	13	122	3/4	213	247	345	379
150	38	28	30	221	123	75	30	18	148	3/4	223	261	373	411

EXTERNAL DIMENSIONS

- MGHC2-A-TA Double acting(rod trunnion)



- MGHC2-C-TA Double rods(rod trunnion)



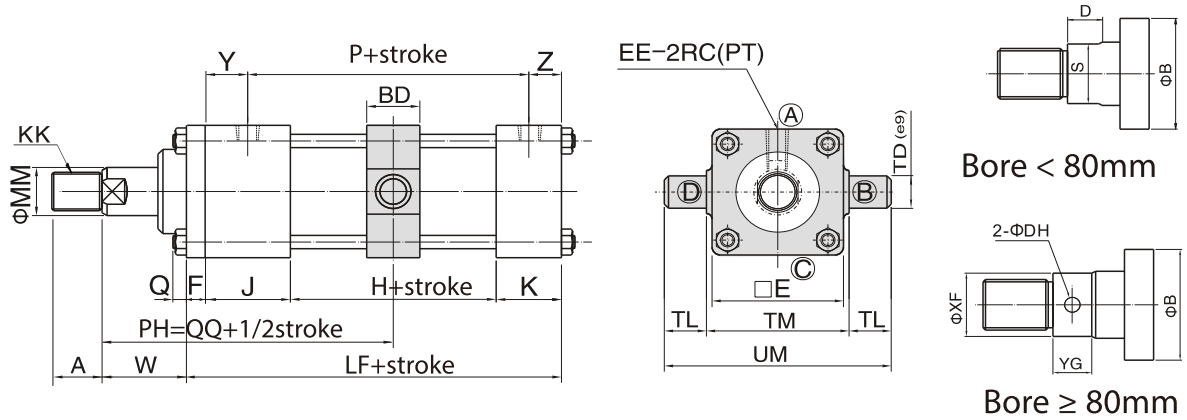
Symbol Shaft	DH	XF	YG
80	10	79	20
85	10	84	20
90	10	89	20
100	12	99	24
112	12	109	24
125	12	124	24
140	12	139	24

Symbol Bore	Bore class C				Bore class B				D			S																
	MM	KK	A	MM	KK	A	C	B	E	F	H	J	K	P	P1	Q	C	B	W	Y	Z	EE	LF	TD	TL	TM	UM	XG
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	76	76	10	14	17	30	23	14	3/8	123	20	20	58 ⁰ _{-0.3}	98	59
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	76	76	10	17	21	30	23	13	3/8	123	20	20	69 ⁰ _{-0.3}	109	59
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	88	88	10	21	27	30	27	19	3/8	148	25	25	85 ⁰ _{-0.35}	135	65
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	88	88	12	27	32	35	27	19	1/2	149	31.5	31.5	98 ⁰ _{-0.35}	161	71
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	98	98	16	32	37	35	28	22	1/2	166	31.5	31.5	118 ⁰ _{-0.35}	181	76
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	114	114	17	37	50	40	30	20	3/4	184	40	40	145 ⁰ _{-0.40}	225	85
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	123	124	21	50	65	45	38	28	3/4	213	50	50	175 ⁰ _{-0.40}	275	98
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	129	132	25	62	-	50	38	28	3/4	223	50	50	206 ⁰ _{-0.46}	306	107

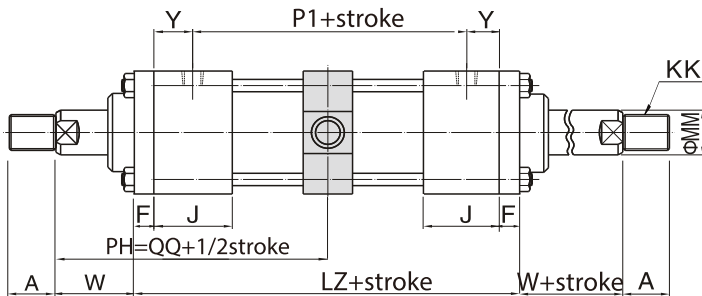
- Tie-rod Hydraulic Cylinder
- Mold Hydraulic Cylinders
- Swivel & Clamp Hydraulic Cylinders
- Booster Cylinders & Unclamping cylinders
- ISO Specifications Cylinders
- Round Hydraulic Cylinders
- Specific Hydraulic Cylinders
- Systems & Fittings

EXTERNAL DIMENSIONS

- MGHC2-A-TC Double acting(mid trunnion)



- MGHC2-C-TC Double rods(mid trunnion)



Symbol	DH	XF	YG
80	10	79	20
85	10	84	20
90	10	89	20
100	12	99	24
112	12	109	24
125	12	124	24
140	12	139	24

Symbol	Bore class C			Bore class B			D		E	F	H	J	K	P	P1
	MM	KK	A	MM	KK	A	C	B							
32	16	M12×P1.5	18	20	M16×P1.5	25	14	14	55	11	50	36	26	76	76
40	20	M16×P1.5	25	25	M20×P1.5	30	14	14	65	11	50	36	26	76	76
50	25	M20×P1.5	30	30	M24×P1.5	35	14	14	75	14	58	42	34	88	88
63	30	M24×P1.5	35	35	M30×P1.5	45	17	17	90	15	58	42	34	88	88
80	35	M30×P1.5	45	40	M36×P1.5	55	17	17	110	18	62	46	40	98	98
100	40	M36×P1.5	60	56	M48×P1.5	70	20	22	135	20	74	50	40	114	114
125	56	M48×P1.5	75	70	M64×P2.0	90	22	22	165	24	83	58	48	123	124
150	65	M60×P2.0	85	85	M76×P2.0	110	22	-	196	28	89	58	48	129	132

Symbol	Q	S		W	Y	Z	BD	EE	LF	LZ	QQ	TD	TL	TM	UM
		C	B												
32	10	14	17	30	23	14	28	3/8	123	144	102	20	20	$58_{-0.3}^0$	98
40	10	17	21	30	23	13	28	3/8	123	144	102	20	20	$69_{-0.3}^0$	109
50	10	21	27	30	27	19	33	3/8	148	170	115	25	25	$85_{-0.35}^0$	135
63	12	27	32	35	27	19	43	1/2	149	172	121	31.5	31.5	$98_{-0.35}^0$	161
80	16	32	37	35	28	22	43	1/2	166	190	130	31.5	31.5	$118_{-0.35}^0$	181
100	17	37	50	40	30	20	53	3/4	184	214	147	40	40	$145_{-0.40}^0$	225
125	21	50	65	45	38	28	58	3/4	213	247	168.5	50	50	$175_{-0.40}^0$	275
150	25	62	-	50	38	28	78	3/4	223	261	180.5	63	63	$206_{-0.46}^0$	332