

MHC* series

COMPACT HYDRAULIC CYLINDERS



Features:

- Compact body design keeps overall length to a minimum.
- Cylinder barrel internally honed to ensure smooth and consistent piston movement.
- High quality materials are used throughout construction.

Specification:

Model	MHC*						
Tube I.D. (mm)	20	25	32	40	50	63	80
The range of stroke (mm)	30	30	60	80	90	100	
Medium	Filtered oil						
Material	Carbon steel						
Operating pressure range	14MPa (140kgf/cm ²)						
Ambient temperature	-10~+60℃ (No freezing)						

MHCB

Front mounting



MHCB..D

Front mounting
(Double end rod type)



MHCQ

Side mounting



MHCQ..D

Side mounting
(Double end rod type)



MHCB..A/B

Adjustable forward
stroke cylinder



MHCQ..A/B

Adjustable forward
stroke cylinder



Order example:

MHCB — 50 — 30 — Z — D — A

MODEL



MHCB



MHCQ

TUBE I.D.

STROKE

ROD END TYPE



Blank: Female thread



Z: Male thread



R, L : One male and one female thread.

END ROD TYPE



D : Double end rod type

ADJUSTABLE
STROKE

Blank: Standard
A: Adjustable 25mm
B: Adjustable 50mm

MHC* Standard stroke

COMPACT HYDRAULIC CYLINDERS



Standard stroke

● Standard products ○ Made to order

Model	Stroke Tube I.D.	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
MHCB MHCB-Z	φ 20	○	●	○	●	○	●	—	—	—	—	—	—	—	—	—
	φ 25	○	●	○	●	○	●	—	—	—	—	—	—	—	—	—
	φ 32	●	●	●	●	●	●	○	●	○	●	○	—	—	—	—
	φ 40	●	●	●	●	●	●	○	●	○	●	○	○	○	—	—
	φ 50	●	●	●	●	●	●	○	●	○	●	○	○	○	○	—
	φ 63	●	●	●	●	●	●	○	●	○	●	○	○	○	○	○
	φ 80	●	●	●	●	●	●	○	●	○	●	○	○	○	○	○
MHCB-D MHCB-ZD MHCB-LD	φ 32	○	●	○	●	○	●	○	●	○	●	○	—	—	—	—
	φ 40	○	●	○	●	○	●	○	●	○	●	○	○	○	—	—
	φ 50	○	●	○	●	○	●	○	●	○	●	○	○	○	○	—
	φ 63	○	●	○	●	○	●	○	●	○	●	○	○	○	○	○
	φ 80	○	●	○	●	○	●	○	●	○	●	○	○	○	○	○
MHCB-A MHCB-ZA MHCB-B MHCB-ZB	φ 32	○	●	○	●	○	●	○	●	○	●	○	—	—	—	—
	φ 40	○	●	○	●	○	●	○	●	○	●	○	○	○	—	—
	φ 50	○	●	○	●	○	●	○	●	○	●	○	○	○	○	—
	φ 63	○	●	○	●	○	●	○	●	○	●	○	○	○	○	○
	φ 80	○	●	○	●	○	●	○	●	○	●	○	○	○	○	○
Model	Stroke Tube I.D.	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
MHCQ MHCQ-Z	φ 32	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 40	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 50	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 63	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
MHCQ-D MHCQ-ZD MHCQ-RD MHCQ-LD	φ 32	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 40	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 50	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 63	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
MHCQ-A MHCQ-ZA MHCQ-B MHCQ-ZB	φ 32	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 40	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 50	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—
	φ 63	○	●	○	●	○	●	○	●	○	●	—	—	—	—	—

MHC* Inside structure and parts list $\phi 20 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



How to order the seal kit

MHC SK

B
Q

Tube I.D.	Seal kit
32	MHCB32,MHCQ32 - Including No.6,7,8,9,10
40	MHCB40,MHCQ40 - Including No.6,7,8,9,10
50	MHCB50,MHCQ50 - Including No.6,7,8,9,10
63	MHCB63,MHCQ63 - Including No.6,7,8,9,10
80	MHCB80 - Including No.6,7,8,9,10

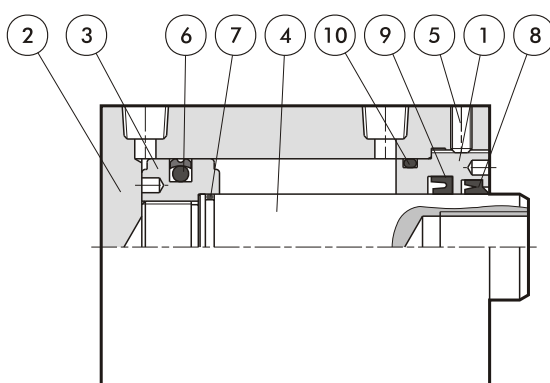
MHC SK D

B
Q

Tube I.D.	Seal kit
32	MHCB32D,MHCQ32D - Including No.6,7,8,9,10
40	MHCB40D,MHCQ40D - Including No.6,7,8,9,10
50	MHCB50D,MHCQ50D - Including No.6,7,8,9,10
63	MHCB63D,MHCQ63D - Including No.6,7,8,9,10
80	MHCB80D - Including No.6,7,8,9,10

MHCB

MHCQ

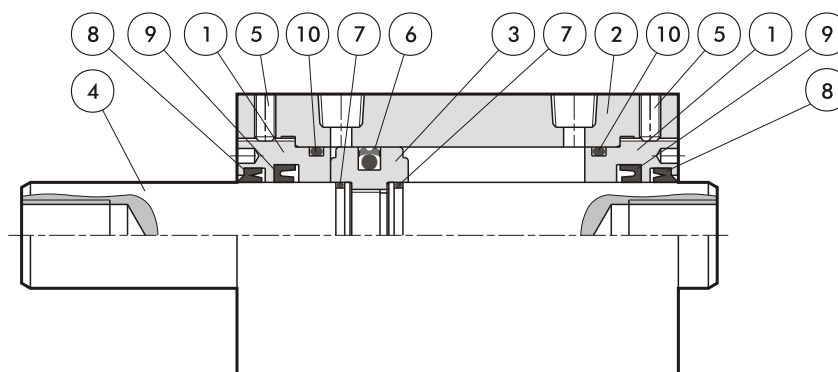


Parts list

No.	Part name	Quantity	No.	Part name	Quantity	No.	Part name	Quantity
1	Rod cover	1	5	Set screw	1	9	Rod packing	1
2	Cylinder tube	1	6	Piston packing	1	10	Cylinder gasket	1
3	Piston	1	7	Piston gasket	1	11		
4	Piston rod	1	8	Dust wiper	1	12		

MHCB-D

MHCQ-D



Parts list

No.	Part name	Quantity	No.	Part name	Quantity	No.	Part name	Quantity
1	Rod cover	2	5	Set screw	2	9	Rod packing	2
2	Cylinder tube	1	6	Piston packing	1	10	Cylinder gasket	2
3	Piston	1	7	Piston gasket	2	11		
4	Piston rod	1	8	Dust wiper	2	12		

How to order the seal kit

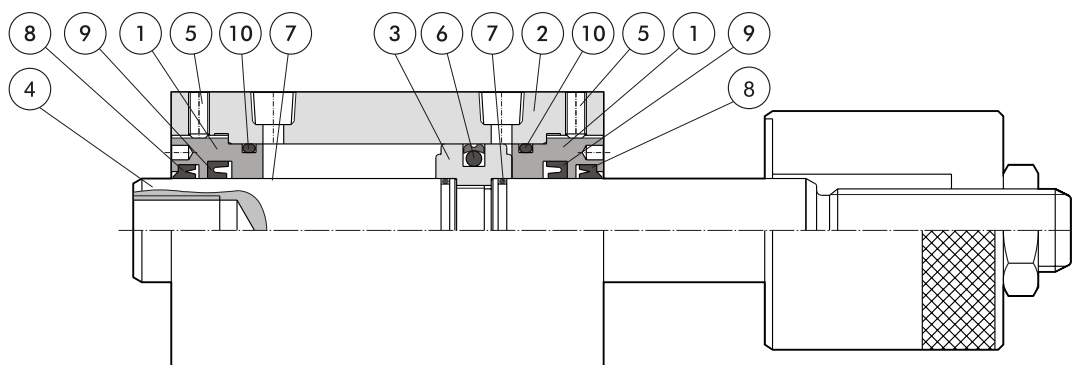
MHC ☐ SK ☐ D

☐ B
☐ Q

Tube I.D.	Seal kit
32	MHCBSK32D, MHCQSK32D - Including No.6,7,8,9,10
40	MHCBSK40D, MHCQSK40D - Including No.6,7,8,9,10
50	MHCBSK50D, MHCQSK50D - Including No.6,7,8,9,10
63	MHCBSK63D, MHCQSK63D - Including No.6,7,8,9,10
80	MHCBSK80D - Including No.6,7,8,9,10

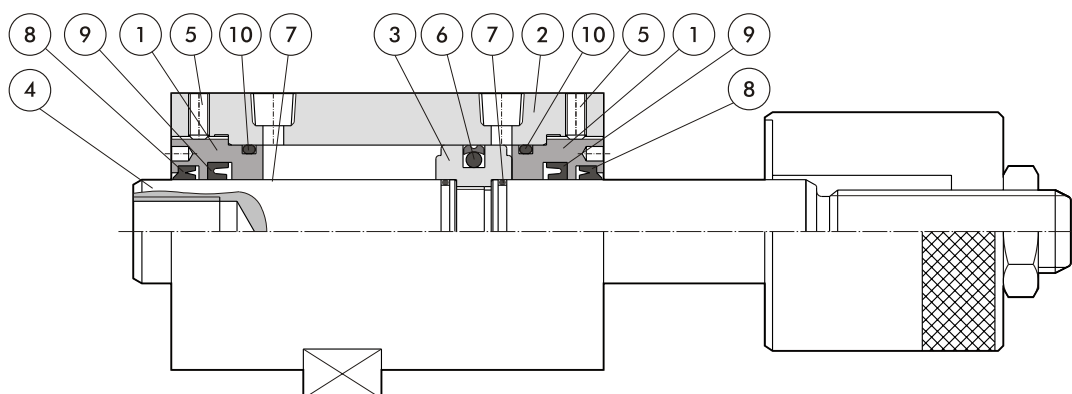
MHCB-A

MHCB-B



MHCQ-A

MHCQ-B



Parts list

No.	Part name	Quantity	No.	Part name	Quantity	No.	Part name	Quantity
1	Rod cover	2	5	Set screw	2	9	Rod packing	2
2	Cylinder tube	1	6	Piston packing	1	10	Cylinder gasket	2
3	Piston	1	7	Piston gasket	2	11		
4	Piston rod	1	8	Dust wiper	2	12		

MHC* Cylinder weight $\phi 20 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



Cylinder weight (Including the mounting nut)

Unit: kg

Tube I.D.	$\phi 20$		$\phi 25$		$\phi 32$				$\phi 40$				$\phi 50$				$\phi 63$				$\phi 80$	
Model	MHCB		MHCB		MHCB		MHCQ		MHCB		MHCQ		MHCB		MHCQ		MHCB		MHCQ		MHCB	
Stroke	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z	N	Z
5	0.64	0.69	0.88	0.93	1.61	1.71	1.72	1.82	2.00	2.20	2.21	2.41	2.78	3.03	3.27	3.52	4.24	4.69	5.28	5.73	7.46	8.31
10	0.63	0.68	0.87	0.92	1.73	1.83	1.71	1.81	2.15	2.35	2.19	2.39	2.96	3.21	3.24	3.49	4.48	4.93	5.22	5.67	7.80	8.65
15	0.75	0.80	1.02	1.07	1.85	1.95	1.98	2.08	2.30	2.50	2.55	2.75	3.14	3.39	3.71	3.96	4.72	5.17	5.90	6.35	8.14	8.99
20	0.74	0.79	1.01	1.06	1.97	2.07	1.97	2.07	2.45	2.65	2.53	2.73	3.32	3.57	3.68	3.93	4.96	5.41	5.84	6.29	8.48	9.33
25	0.86	0.91	1.16	1.21	2.09	2.19	2.24	2.34	2.60	2.80	2.89	3.09	3.50	3.75	4.15	4.40	5.20	5.65	6.52	6.97	8.82	9.67
30	0.85	0.90	1.15	1.20	2.21	2.31	2.23	2.33	2.75	2.95	2.87	3.07	3.68	3.93	4.12	4.37	5.44	5.89	6.46	6.91	9.16	10.01
35	0.97	1.02	1.30	1.35	2.46	2.56	2.50	2.60	3.07	3.27	3.23	3.43	4.07	4.32	4.59	4.84	5.98	6.43	7.14	7.59	9.93	10.78
40	0.96	1.01	1.29	1.34	2.45	2.55	2.49	2.59	3.05	3.25	3.21	3.41	4.04	4.29	4.56	4.81	5.92	6.37	7.08	7.53	9.84	10.69
45	—	—	1.44	1.49	2.70	2.80	2.76	2.86	3.37	3.57	3.57	3.77	4.43	4.68	5.03	5.28	6.46	6.91	7.76	8.21	10.61	11.46
50	—	—	1.43	1.48	2.69	2.79	2.75	2.85	3.35	3.55	3.55	3.75	4.40	4.65	5.00	5.25	6.40	6.85	7.70	8.15	10.52	11.37
60	—	—	—	—	2.93	3.03	3.01	3.11	3.65	3.85	3.89	4.09	4.76	5.01	5.44	5.69	6.88	7.33	8.32	8.77	11.20	12.05
70	—	—	—	—	3.17	3.27	3.27	3.37	3.95	4.15	4.23	4.43	5.12	5.37	5.88	6.13	7.36	7.81	8.94	9.39	11.88	12.73
80	—	—	—	—	3.41	3.51	3.53	3.63	4.25	4.45	4.57	4.77	5.48	5.73	6.32	6.57	7.84	8.29	9.56	10.01	12.56	13.41
90	—	—	—	—	3.65	3.75	3.79	3.89	4.55	4.75	4.91	5.11	5.84	6.09	6.76	7.01	8.32	8.77	10.18	10.63	13.24	14.09
100	—	—	—	—	3.89	3.99	4.05	4.15	4.85	5.05	5.25	5.45	6.20	6.45	7.20	7.45	8.80	9.25	10.80	11.25	13.92	14.77

※N (Female thread); Z (Male thread)

Unit: kg

Tube I.D.	$\phi 32$						$\phi 40$						$\phi 50$						$\phi 63$						$\phi 80$		
Model	MHCB_D			MHCQ_D			MHCB_D			MHCQ_D			MHCB_D			MHCQ_D			MHCB_D			MHCQ_D			MHCB_D		
Stroke	N	Z	L	N	Z	L,R	N	Z	L	N	Z	L,R	N	Z	L	N	Z	L,R	N	Z	L	N	Z	L,R	N	Z	L
5	1.89	2.06	1.97	1.90	2.07	1.99	2.37	2.71	2.54	2.45	2.79	2.62	3.22	3.65	3.44	3.63	4.05	3.84	4.85	5.61	5.23	5.59	6.35	5.98	10.18	11.63	10.90
10	1.89	2.06	1.97	1.90	2.07	1.99	2.37	2.71	2.54	2.45	2.79	2.62	3.22	3.65	3.43	3.62	4.05	3.84	4.83	5.59	5.21	5.58	6.34	5.96	10.15	11.60	10.88
15	2.11	2.28	2.20	2.14	2.31	2.23	2.66	3.00	2.83	2.77	3.11	2.94	3.58	4.00	3.79	4.05	4.47	4.26	5.32	6.08	5.70	6.18	6.95	6.57	10.87	12.31	11.59
20	2.11	2.28	2.20	2.14	2.31	2.23	2.66	3.00	2.83	2.77	3.11	2.94	3.57	4.00	3.79	4.04	4.47	4.26	5.30	6.07	5.68	6.17	6.93	6.55	10.84	12.28	11.58
25	2.34	2.51	2.42	2.38	2.55	2.47	2.94	3.28	3.11	3.09	3.43	3.26	3.93	4.36	4.14	4.47	4.90	4.68	5.79	6.56	6.17	6.78	7.54	7.16	11.55	12.99	12.27
30	2.34	2.51	2.42	2.39	2.56	2.47	2.95	3.29	3.12	3.10	3.44	3.27	3.93	4.35	4.14	4.47	4.89	4.68	5.77	6.54	6.15	6.76	7.52	7.14	11.52	12.97	12.25
35	2.56	2.73	2.65	2.63	2.80	2.71	3.23	3.57	3.40	3.42	3.76	3.59	4.28	4.71	4.50	4.89	5.32	5.10	6.26	7.03	6.64	7.37	8.13	7.75	12.23	13.68	12.96
40	2.56	2.73	2.65	2.63	2.80	2.71	3.23	3.57	3.40	3.42	3.76	3.59	4.28	4.71	4.49	4.89	5.31	5.10	6.24	7.01	6.63	7.35	8.11	7.73	12.21	13.65	12.93
45	2.79	2.96	2.87	2.87	3.04	2.95	3.52	3.86	3.69	3.74	4.08	3.91	4.64	5.06	4.85	5.31	5.74	5.52	6.73	7.50	7.12	7.96	8.72	8.34	12.92	14.35	13.64
50	2.79	2.96	2.87	2.87	3.04	2.96	3.52	3.86	3.69	3.74	4.08	3.91	4.63	5.06	4.85	5.31	5.73	5.52	6.72	7.48	7.10	7.94	8.71	8.32	12.89	14.34	13.61
60	3.01	3.18	3.10	—	—	—	3.81	4.15	3.98	—	—	—	4.99	5.41	5.20	—	—	—	7.19	7.95	7.57	—	—	—	13.58	15.02	14.30
70	3.24	3.41	3.32	—	—	—	4.10	4.44	4.27	—	—	—	5.34	5.76	5.55	—	—	—	7.66	8.43	8.04	—	—	—	14.26	15.70	14.98
80	3.46	3.63	3.55	—	—	—	4.39	4.73	4.56	—	—	—	5.69	6.12	5.91	—	—	—	8.13	8.90	8.52	—	—	—	14.94	16.39	15.67
90	3.69	3.86	3.77	—	—	—	4.67	5.01	4.84	—	—	—	6.05	6.47	6.26	—	—	—	8.61	9.37	8.99	—	—	—	15.63	17.07	16.35
100	3.91	4.08	4.00	—	—	—	4.96	5.30	5.13	—	—	—	6.40	6.82	6.61	—	—	—	9.08	9.84	9.46	—	—	—	16.31	17.76	17.03

※N (Bilateral Female thread); Z (Bilateral Male thread); L,R (Unilateral Female thread)

Mounting weight

Unit: kg

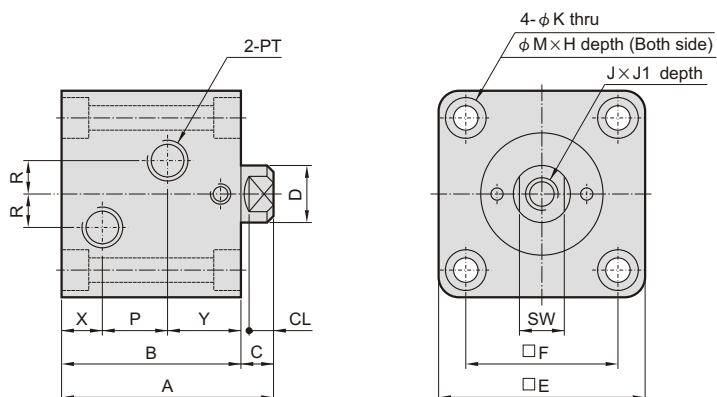
Tube I.D. (mm)	Adjustable Nut		Nut (Rod)
	A Adjustable Stroke 25mm	B Adjustable Stroke 50mm	
$\phi 32$	0.6	0.9	0.02
$\phi 40$	1.0	1.45	0.04
$\phi 50$	1.15	1.7	0.08
$\phi 63$	2.15	3	0.08
$\phi 80$	3.4	4.2	0.18

MHCB Dimensions $\phi 20 \sim \phi 80$

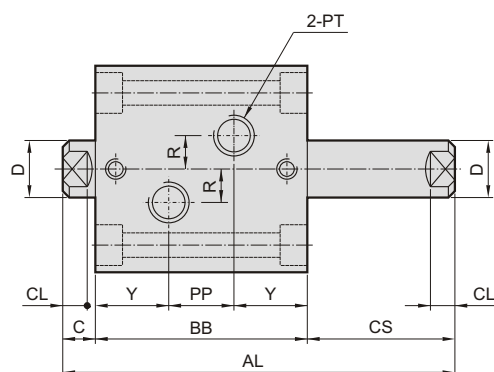
COMPACT HYDRAULIC CYLINDERS



MHCB

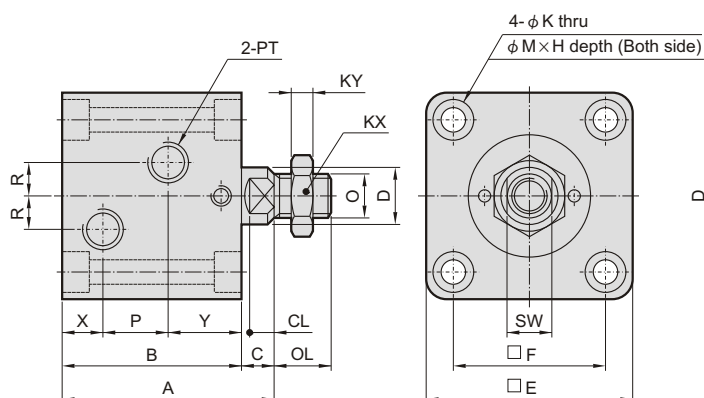


MHCB-D

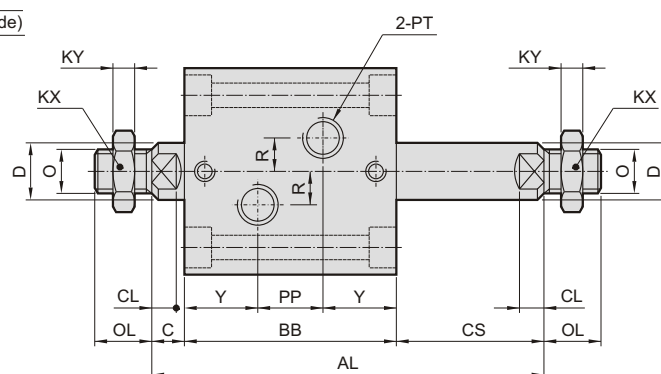


$$CS = C + \text{stroke}$$

MHCB-Z

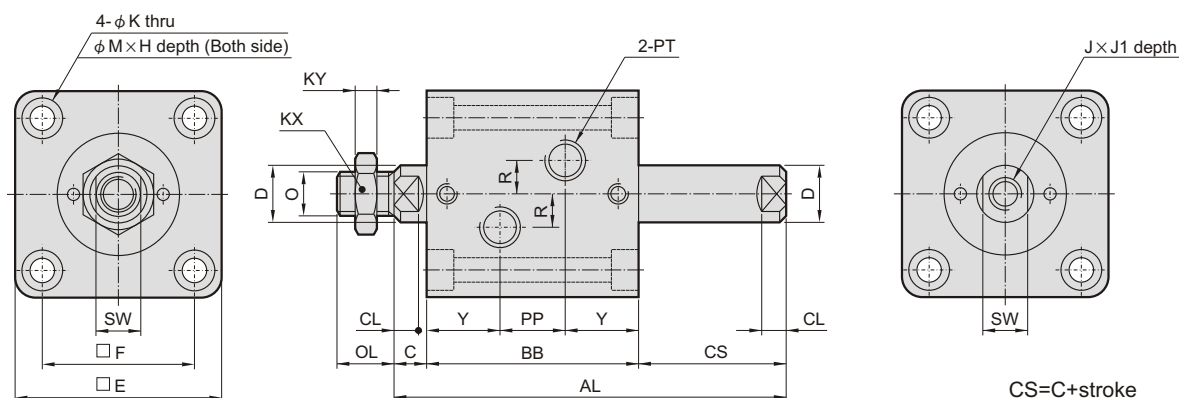


MHCB-ZD



$$CS = C + \text{stroke}$$

MHCB-LD



$$CS = C + \text{stroke}$$

MHCB Dimensions $\phi 20 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



Tube I.D.	Model	MHCB / MHCB-Z														
	Stroke	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
$\phi 20$	A	61	61	71	71	81	81	-	-	-	-	-	-	-	-	-
	B	53	53	63	63	73	73	-	-	-	-	-	-	-	-	-
	P	20	20	30	30	40	40	-	-	-	-	-	-	-	-	-
$\phi 25$	A	63	63	73	73	83	83	-	-	-	-	-	-	-	-	-
	B	55	55	65	65	75	75	-	-	-	-	-	-	-	-	-
	P	22	22	32	32	42	42	-	-	-	-	-	-	-	-	-
$\phi 32$	A	69	74	79	84	89	94	104	104	114	114	124	-	-	-	-
	B	59	64	69	74	79	84	94	94	104	104	114	-	-	-	-
	P	19	24	29	34	39	44	54	54	64	64	74	-	-	-	-
$\phi 40$	A	70	75	80	85	90	95	105	105	115	115	125	135	145	-	-
	B	60	65	70	75	80	85	95	95	105	105	115	125	135	-	-
	P	20	25	30	35	40	45	55	55	65	65	75	85	95	-	-
$\phi 50$	A	76	81	86	91	96	101	111	111	121	121	131	141	151	161	-
	B	65	70	75	80	85	90	100	100	110	110	120	130	140	150	-
	P	23	28	33	38	43	48	58	58	68	68	78	88	98	108	-
$\phi 63$	A	85	90	95	100	105	110	120	120	130	130	140	150	160	170	180
	B	72	77	82	87	92	97	107	107	117	117	127	137	147	157	167
	P	25	30	35	40	45	50	60	60	70	70	80	90	100	110	120
$\phi 80$	A	100	105	110	115	120	125	135	135	145	145	155	165	175	185	195
	B	83	88	93	98	103	108	118	118	128	128	138	148	158	168	178
	P	32	37	42	47	52	57	67	67	77	77	87	97	107	117	127

Tube I.D.	Model	MHCB-D / MHCB-ZD / MHCB-LD														
	Stroke	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
$\phi 32$	AL	104	109	124	129	144	149	164	169	184	189	209	-	-	-	-
	BB	79	79	89	89	99	99	109	109	119	119	129	-	-	-	-
	CS	15	20	25	30	35	40	45	50	55	60	70	-	-	-	-
	PP	23	23	33	33	43	43	53	53	63	63	73	-	-	-	-
$\phi 40$	AL	105	110	125	130	145	150	165	170	185	190	210	230	250	-	-
	BB	80	80	90	90	100	100	110	110	120	120	130	140	150	-	-
	CS	15	20	25	30	35	40	45	50	55	60	70	80	90	-	-
	PP	24	24	34	34	44	44	54	54	64	64	74	84	94	-	-
$\phi 50$	AL	112	117	132	137	152	157	172	177	192	197	217	237	257	277	-
	BB	85	85	95	95	105	105	115	115	125	125	135	145	155	165	-
	CS	16	21	26	31	36	41	46	51	56	61	71	81	91	101	-
	PP	26	26	36	36	46	46	56	56	66	66	76	86	96	106	-
$\phi 63$	AL	123	128	143	148	163	168	183	188	203	208	228	248	268	288	308
	BB	92	92	102	102	112	112	122	122	132	132	142	152	162	172	182
	CS	18	23	28	33	38	43	48	53	58	63	73	83	93	103	113
	PP	30	30	40	40	50	50	60	60	70	70	80	90	100	110	120
$\phi 80$	AL	142	147	162	167	182	187	202	207	222	227	247	267	287	307	327
	BB	103	103	113	113	123	123	133	133	143	143	153	163	173	183	193
	CS	22	27	32	37	42	47	52	57	62	67	77	87	97	107	117
	PP	37	37	47	47	57	57	67	67	77	77	87	97	107	117	127

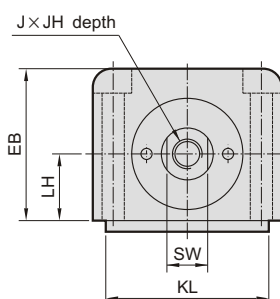
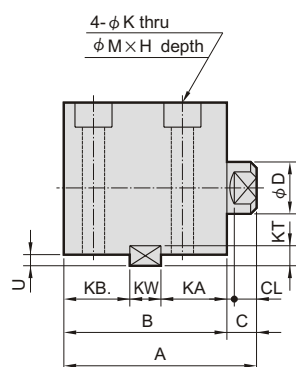
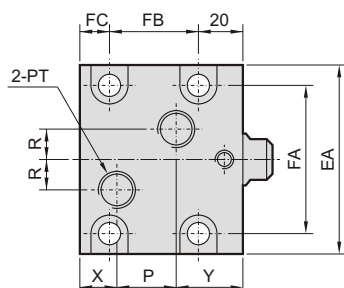
Code Tube I.D.	C	CL	D	E	F	H	J	J1	K	KX	KY	M	O	OL	PT	R	SW	X	Y
$\phi 20$	8	6	12	42	30	5.5	M8×1.25	10	5.6	17	6	9	M10×1.25	20	PT 1/8	5	10	10	23
$\phi 25$	8	6	14	48	36	5.5	M10×1.5	12	5.6	19	7	9	M12×1.25	22	PT 1/8	5	12	10	23
$\phi 32$	10	7	20	62	47	6.5	M12×1.75	15	6.6	24	8	11	M16×1.5	25	PT 1/4	10	17	12	28
$\phi 40$	10	7	25	70	52	9	M16×2.0	20	9	32	10	14	M22×1.5	30	PT 1/4	10	22	12	28
$\phi 50$	11	8	30	80	58	11	M20×2.5	25	11	35	14	18	M26×1.5	35	PT 1/4	10	27	12.5	29.5
$\phi 63$	13	10	35	94	69	13	M27×3.0	35	13	41	13	20	M30×1.5	40	PT 3/8	10	32	16	31
$\phi 80$	17	14	45	114	86	15	M30×3.5	35	15	50	10	22	M39×1.5	45	PT 3/8	15	41	18	33

MHCQ Dimensions $\phi 32 \sim \phi 63$

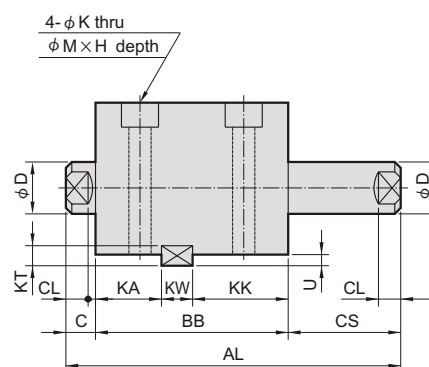
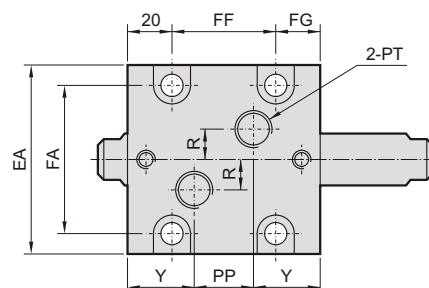
COMPACT HYDRAULIC CYLINDERS



MHCQ

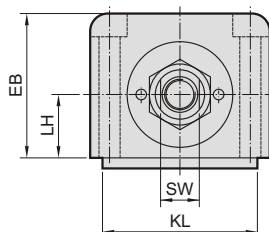
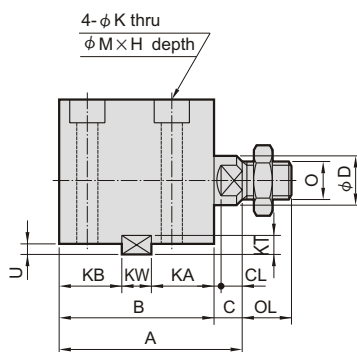
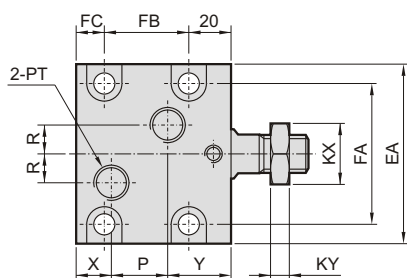


MHCQ-D

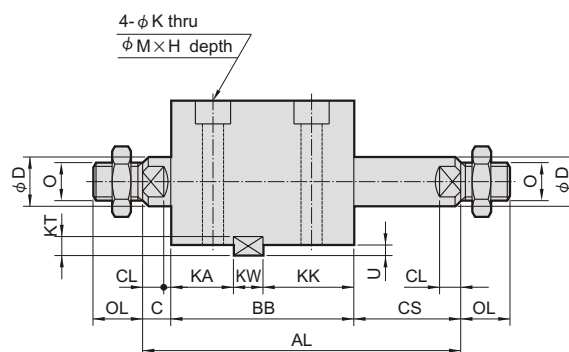
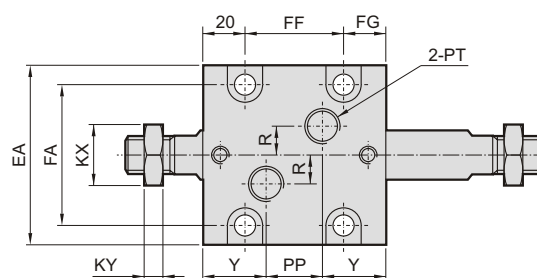


CS=C+stroke

MHCQ-Z



MHCQ-ZD



CS=C+stroke

MHCQ Dimensions $\phi 32 \sim \phi 63$

COMPACT HYDRAULIC CYLINDERS



Tube I.D.	Model	MHCQ / MHCQ-Z									
	Stroke	5	10	15	20	25	30	35	40	45	50
$\phi 32$	A	74	74	84	84	94	94	104	104	114	114
	B	64	64	74	74	84	84	94	94	104	104
	FB	34	34	44	44	54	54	64	64	74	74
	KB	24	24	34	34	44	44	54	54	64	64
	P	24	24	34	34	44	44	54	54	64	64
$\phi 40$	A	75	75	85	85	95	95	105	105	115	115
	B	65	65	75	75	85	85	95	95	105	105
	FB	33	33	43	43	53	53	63	63	73	73
	KB	25	25	35	35	45	45	55	55	65	65
	P	25	25	35	35	45	45	55	55	65	65
$\phi 50$	A	81	81	91	91	101	101	111	111	121	121
	B	70	70	80	80	90	90	100	100	110	110
	FB	37	37	47	47	57	57	67	67	77	77
	KB	27	27	37	37	47	47	57	57	67	67
	P	28	28	38	38	48	48	58	58	68	68
$\phi 63$	A	90	90	100	100	110	110	120	120	130	130
	B	77	77	87	87	97	97	107	107	117	117
	FB	42	42	52	52	62	62	72	72	82	82
	KB	30	30	40	40	50	50	60	60	70	70
	P	30	30	40	40	50	50	60	60	70	70

Tube I.D.	Model	MHCQ-D / MHCQ-ZD									
	Stroke	5	10	15	20	25	30	35	40	45	50
$\phi 32$	AA	104	109	124	129	144	149	164	169	184	189
	BB	79	79	89	89	99	99	109	109	119	119
	CS	15	20	25	30	35	40	45	50	55	60
	FF	42	42	52	52	62	62	72	72	82	82
	KK	39	39	49	49	59	59	69	69	79	79
	PP	23	23	33	33	43	43	53	53	63	63
$\phi 40$	AA	105	110	125	130	145	150	165	170	185	190
	BB	80	80	90	90	100	100	110	110	120	120
	CS	15	20	25	30	35	40	45	50	55	60
	FF	42	42	52	52	62	62	72	72	82	82
	KK	40	40	50	50	60	60	70	70	80	80
	PP	24	24	34	34	44	44	54	54	64	64
$\phi 50$	AA	112	117	132	137	152	157	172	177	192	197
	BB	85	85	95	95	105	105	115	115	125	125
	CS	16	21	26	31	36	41	46	51	56	61
	FF	45	45	55	55	65	65	75	75	85	85
	KK	42	42	52	52	62	62	72	72	82	82
	PP	26	26	36	36	46	46	56	56	66	66
$\phi 63$	AA	123	128	143	148	163	168	183	188	203	208
	BB	92	92	102	102	112	112	122	122	132	132
	CS	18	23	28	33	38	43	48	53	58	63
	FF	52	52	62	62	72	72	82	82	92	92
	KK	45	45	55	55	65	65	75	75	85	85
	PP	30	30	40	40	50	50	60	60	70	70

Code Tube I.D.	C	CL	D	EA	EB	FA	FC	FG	H	J	JH	K	KA	KL
$\phi 32$	10	7	20	70	56	56	10	17	9	M12 $\times$ 1.75	15	9	28	63
$\phi 40$	10	7	25	80	64	62	12	18	11	M16 $\times$ 2.0	20	11	28	70
$\phi 50$	11	8	30	94	74	74	13	20	13	M20 $\times$ 2.5	25	13	29	80
$\phi 63$	13	10	35	114	89	90	15	20	15	M27 $\times$ 3.0	35	15	31	100

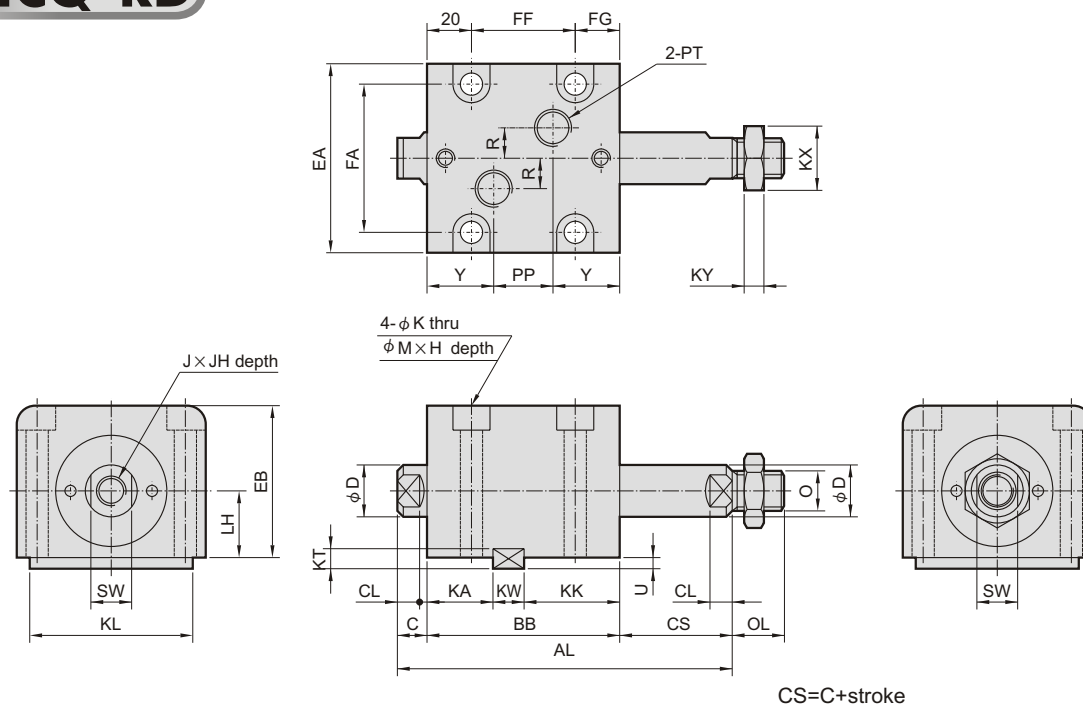
Code Tube I.D.	KT	KW	KX	KY	LH	M	O	OL	PT	R	SW	U	X	Y
$\phi 32$	8	12	24	8	25	14	M16 $\times$ 1.5	25	PT 1/4	10	17	4.5	12	28
$\phi 40$	8	12	32	11	29	18	M22 $\times$ 1.5	30	PT 1/4	10	22	4.5	12	28
$\phi 50$	9	14	35	14	34	20	M26 $\times$ 1.5	35	PT 1/4	10	27	5	12.5	29.5
$\phi 63$	10	16	41	13	42	22	M30 $\times$ 1.5	40	PT 3/8	10	32	5.5	16	31

MHCQ-*D Dimensions / Double end rod $\phi 32 \sim \phi 63$

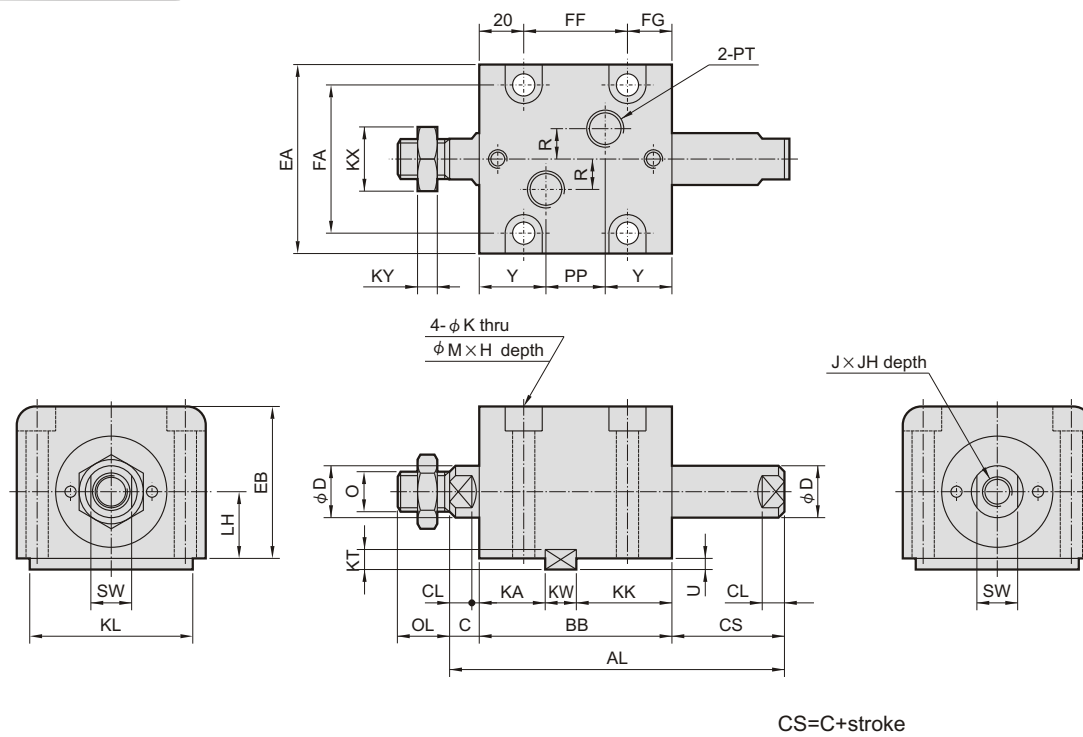
COMPACT HYDRAULIC CYLINDERS



MHCQ-RD



MHCQ-LD



MHCQ-*D Dimensions / Double end rod $\phi 32 \sim \phi 63$

COMPACT HYDRAULIC CYLINDERS



Tube I.D.	Model	MHCQ-RD / MHCQ-LD									
	Stroke	5	10	15	20	25	30	35	40	45	50
$\phi 32$	AA	104	109	124	129	144	149	164	169	184	189
	BB	79	79	89	89	99	99	109	109	119	119
	CS	15	20	25	30	35	40	45	50	55	60
	FF	42	42	52	52	62	62	72	72	82	82
	KK	39	39	49	49	59	59	69	69	79	79
	PP	23	23	33	33	43	43	53	53	63	63
$\phi 40$	AA	105	110	125	130	145	150	165	170	185	190
	BB	80	80	90	90	100	100	110	110	120	120
	CS	15	20	25	30	35	40	45	50	55	60
	FF	42	42	52	52	62	62	72	72	82	82
	KK	40	40	50	50	60	60	70	70	80	80
	PP	24	24	34	34	44	44	54	54	64	64
$\phi 50$	AA	112	117	132	137	152	157	172	177	192	197
	BB	85	85	95	95	105	105	115	115	125	125
	CS	16	21	26	31	36	41	46	51	56	61
	FF	45	45	55	55	65	65	75	75	85	85
	KK	42	42	52	52	62	62	72	72	82	82
	PP	26	26	36	36	46	46	56	56	66	66
$\phi 63$	AA	123	128	143	148	163	168	183	188	203	208
	BB	92	92	102	102	112	112	122	122	132	132
	CS	18	23	28	33	38	43	48	53	58	63
	FF	52	52	62	62	72	72	82	82	92	92
	KK	45	45	55	55	65	65	75	75	85	85
	PP	30	30	40	40	50	50	60	60	70	70

Code	C	CL	D	EA	EB	FA	FG	H	J	JH	K	KA	KL	KT
Tube I.D.														
$\phi 32$	10	7	20	70	56	56	17	9	M12 $\times$ 1.75	15	9	28	63	8
$\phi 40$	10	7	25	80	64	62	18	11	M16 $\times$ 2.0	20	11	28	70	8
$\phi 50$	11	8	30	94	74	74	20	13	M20 $\times$ 2.5	25	13	29	80	9
$\phi 63$	13	10	35	114	89	90	20	15	M27 $\times$ 3.0	35	15	31	100	10

Code	KW	KX	KY	LH	M	O	OL	PT	R	SW	U	Y
Tube I.D.												
$\phi 32$	12	24	8	25	14	M16 $\times$ 1.5	25	PT 1/4	10	17	4.5	28
$\phi 40$	12	32	11	29	18	M22 $\times$ 1.5	30	PT 1/4	10	22	4.5	28
$\phi 50$	14	35	14	34	20	M26 $\times$ 1.5	35	PT 1/4	10	27	5	29.5
$\phi 63$	16	41	13	42	22	M30 $\times$ 1.5	40	PT 3/8	10	32	5.5	31

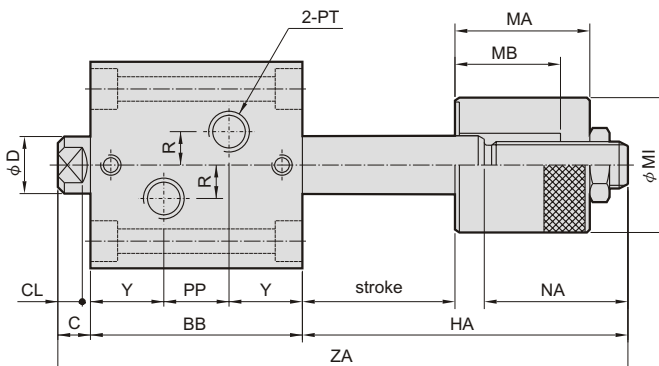
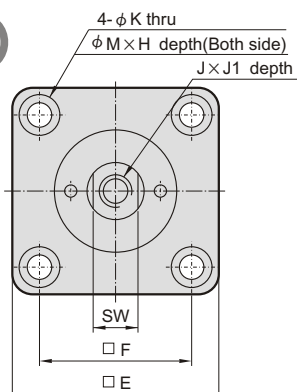
MHCB Dimensions / Adjustable stroke $\phi 32 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



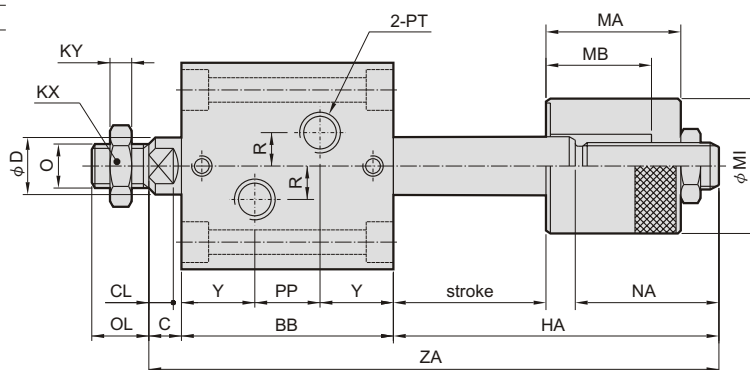
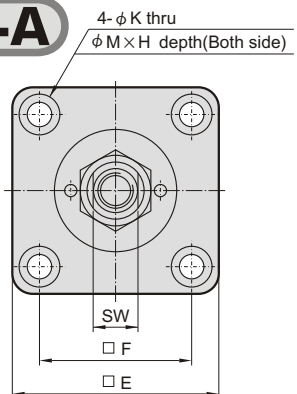
MHCB-A

Adjustable stroke
25 mm



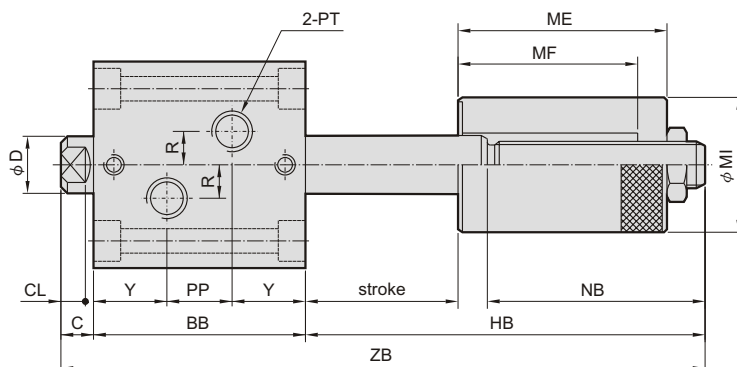
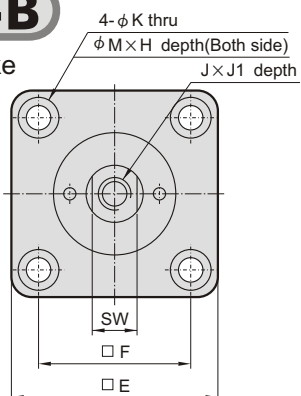
MHCB-Z-A

Adjustable stroke
25 mm



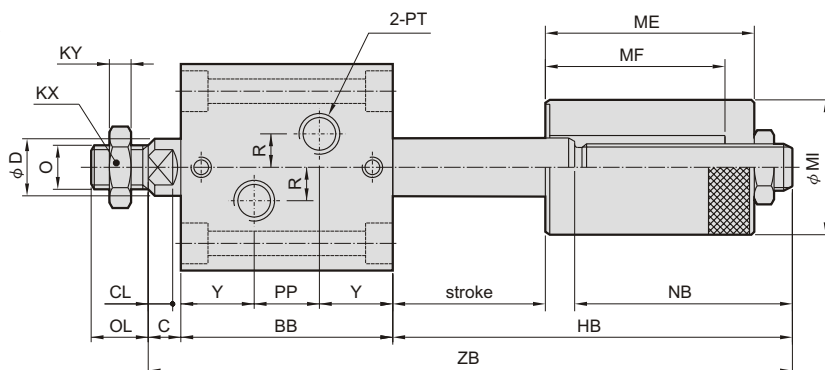
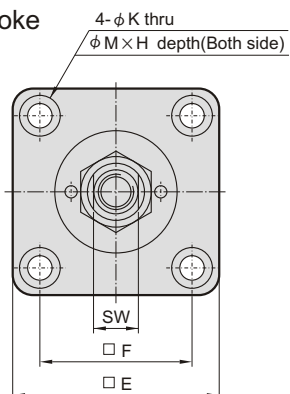
MHCB-B

Adjustable stroke
50 mm



MHCB-Z-B

Adjustable stroke
50 mm



MHCB Dimensions / Adjustable stroke $\phi 32 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



Tube I.D.	Model	MHCB-A / MHCB-Z-A														
	Stroke	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
$\phi 32$	ZA	153	158	173	178	193	198	213	218	233	238	258	-	-	-	-
	BB	79	79	89	89	99	99	109	109	119	119	129	-	-	-	-
	PP	23	23	33	33	43	43	53	53	63	63	73	-	-	-	-
	HA	64	69	74	79	84	89	94	99	104	109	119	-	-	-	-
$\phi 40$	ZA	163	168	183	188	203	208	223	228	243	248	268	288	308	-	-
	BB	80	80	90	90	100	100	110	110	120	120	130	140	150	-	-
	PP	24	24	34	34	44	44	54	54	64	64	74	84	94	-	-
	HA	73	78	83	88	93	98	103	108	113	118	128	138	148	-	-
$\phi 50$	ZA	171	176	191	196	211	216	231	236	251	256	276	296	316	336	-
	BB	85	85	95	95	105	105	115	115	125	125	135	145	155	165	-
	PP	26	26	36	36	46	46	56	56	66	66	76	86	96	106	-
	HA	75	80	85	90	95	100	105	110	115	120	130	140	150	160	-
$\phi 63$	ZA	188	193	208	213	228	233	248	253	268	273	293	313	333	353	373
	BB	92	92	102	102	112	112	122	122	132	132	142	152	162	172	182
	PP	30	30	40	40	50	50	60	60	70	70	80	90	100	110	120
	HA	83	88	93	98	103	108	113	118	123	128	138	148	158	168	178
$\phi 80$	ZA	207	212	227	232	247	252	267	272	287	292	312	332	352	372	392
	BB	103	103	113	113	123	123	133	133	143	143	153	163	173	183	193
	PP	37	37	47	47	57	57	67	67	77	77	87	97	107	117	127
	HA	87	92	97	102	107	112	117	122	127	132	142	152	162	172	182

Tube I.D.	Model	MHCB-B / MHCB-Z-B														
	Stroke	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100
$\phi 32$	ZB	178	183	198	203	218	223	238	243	258	263	283	-	-	-	-
	BB	79	79	89	89	99	99	109	109	119	119	129	-	-	-	-
	PP	23	23	33	33	43	43	53	53	63	63	73	-	-	-	-
	HB	89	94	99	104	109	114	119	124	129	134	144	-	-	-	-
$\phi 40$	ZB	188	193	208	213	228	233	248	253	268	273	293	313	333	-	-
	BB	80	80	90	90	100	100	110	110	120	120	130	140	150	-	-
	PP	24	24	34	34	44	44	54	54	64	64	74	84	94	-	-
	HB	98	103	108	113	118	123	128	133	138	143	153	163	173	-	-
$\phi 50$	ZB	196	201	216	221	236	241	256	261	276	281	301	321	341	361	-
	BB	85	85	95	95	105	105	115	115	125	125	135	145	155	165	-
	PP	26	26	36	36	46	46	56	56	66	66	76	86	96	106	-
	HB	100	105	110	115	120	125	130	135	140	145	155	165	175	185	-
$\phi 63$	ZB	213	218	233	238	253	258	273	278	293	298	318	338	358	378	398
	BB	92	92	102	102	112	112	122	122	132	132	142	152	162	172	182
	PP	30	30	40	40	50	50	60	60	70	70	80	90	100	110	120
	HB	108	113	118	123	128	133	138	143	148	153	163	173	183	193	203
$\phi 80$	ZB	232	237	252	257	272	277	292	297	312	317	337	357	377	397	417
	BB	103	103	113	113	123	123	133	133	143	143	153	163	173	183	193
	PP	37	37	47	47	57	57	67	67	77	77	87	97	107	117	127
	HB	112	117	122	127	132	137	142	147	152	157	167	177	187	197	207

Code Tube I.D.	C	CL	D	E	F	H	J	J1	K	KX	KY	M	MI	MA
$\phi 32$	10	7	20	62	47	6.5	M12 $\times$ 1.75	15	6.5	24	8	11	46	46
$\phi 40$	10	7	25	70	52	9	M16 $\times$ 2.0	20	9	32	11	14	55	54
$\phi 50$	11	8	30	80	58	11	M20 $\times$ 2.5	25	11	35	14	18	60	53
$\phi 63$	13	10	35	94	69	13	M27 $\times$ 3.0	35	13	41	13	20	75	63
$\phi 80$	17	14	45	114	86	15	M30 $\times$ 3.5	35	15	50	10	22	90	70

Code Tube I.D.	MB	ME	MF	NA	NB	O	OL	PT	R	SW	Y
$\phi 32$	36	71	61	49	74	M16 $\times$ 1.5	25	PT 1/4	10	17	28
$\phi 40$	36	79	61	58	83	M22 $\times$ 1.5	30	PT 1/4	10	22	28
$\phi 50$	37	78	62	59	84	M26 $\times$ 1.5	35	PT 1/4	10	27	29.5
$\phi 63$	39	88	64	65	90	M30 $\times$ 1.5	40	PT 3/8	10	32	31
$\phi 80$	43	95	68	65	90	M39 $\times$ 1.5	45	PT 3/8	15	41	33

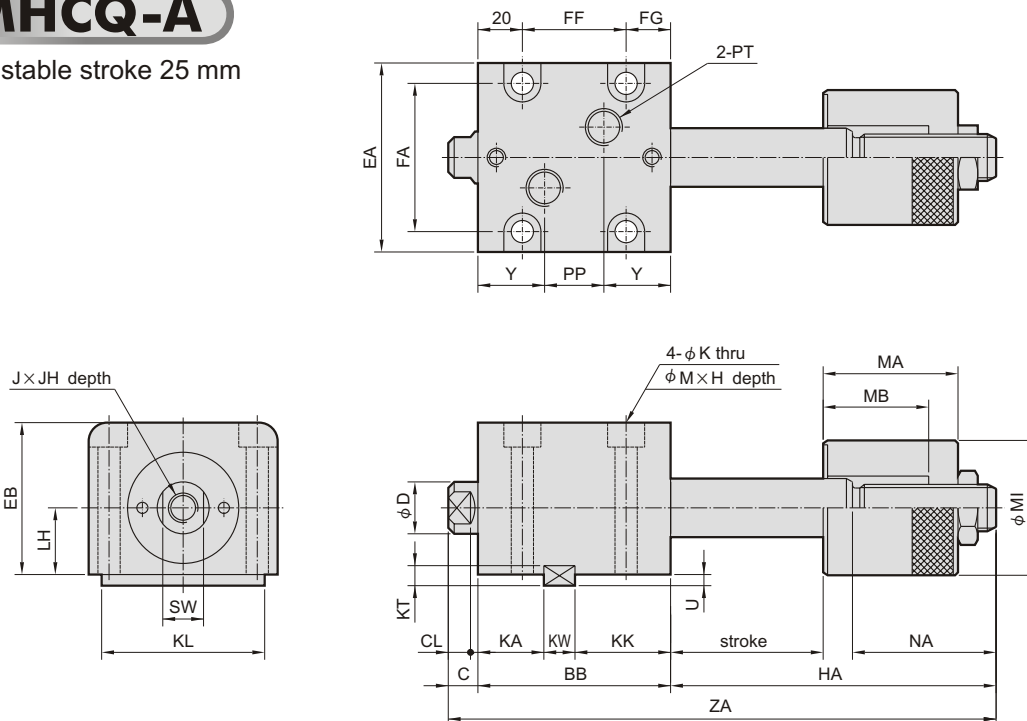
MHCQ-A Dimensions / Adjustable stroke $\phi 32 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



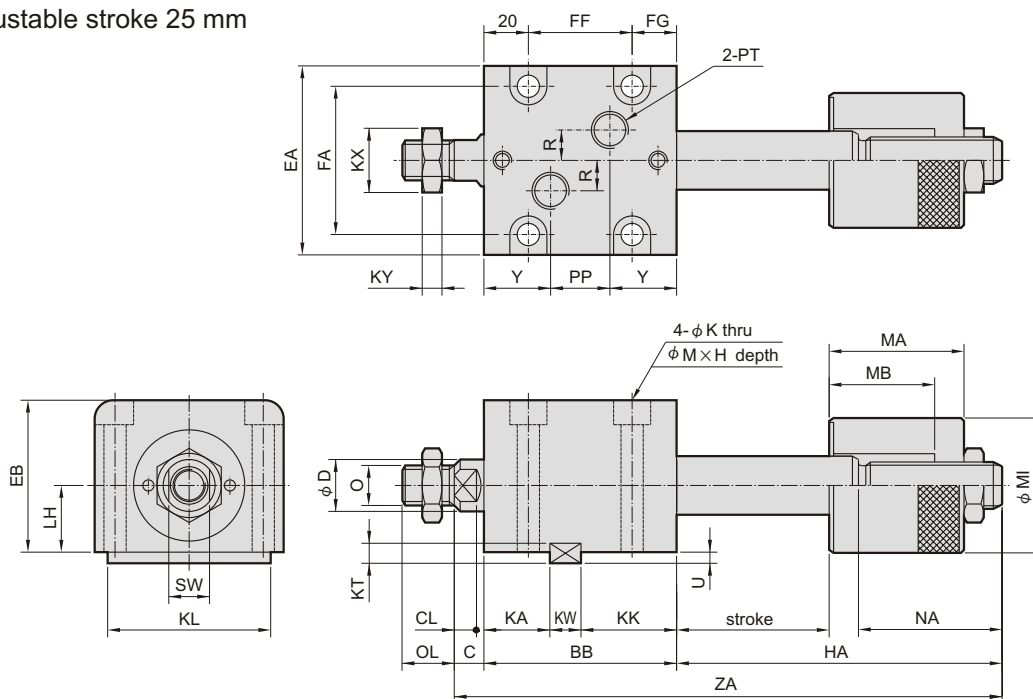
MHCQ-A

Adjustable stroke 25 mm



MHCQ-Z-A

Adjustable stroke 25 mm



MHCQ-A Dimensions / Adjustable stroke $\phi 32 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS

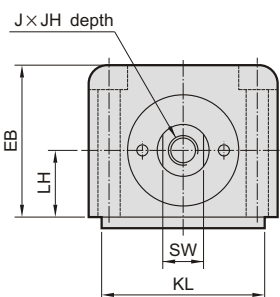


Tube I.D.	Model	MHCQ-A / MHCQ-Z-A									
	Stroke	5	10	15	20	25	30	35	40	45	50
$\phi 32$	ZA	153	158	173	178	193	198	213	218	233	238
	BB	79	79	89	89	99	99	109	109	119	119
	FF	42	42	52	52	62	62	72	72	82	82
	KK	39	39	49	49	59	59	69	69	79	79
	PP	23	23	33	33	43	43	53	53	63	63
	HA	64	69	74	79	84	89	94	99	104	109
$\phi 40$	ZA	163	168	183	188	203	208	223	228	243	248
	BB	80	80	90	90	100	100	110	110	120	120
	FF	42	42	52	52	62	62	72	72	82	82
	KK	40	40	50	50	60	60	70	70	80	80
	PP	24	24	34	34	44	44	54	54	64	64
	HA	73	78	83	88	93	98	103	108	113	118
$\phi 50$	ZA	171	176	191	196	211	216	231	236	251	256
	BB	85	85	95	95	105	105	115	115	125	125
	FF	45	45	55	55	65	65	75	75	85	85
	KK	42	42	52	52	62	62	72	72	82	82
	PP	26	26	36	36	46	46	56	56	66	66
	HA	75	80	85	90	95	100	105	110	115	120
$\phi 63$	ZA	188	193	208	213	228	233	248	253	268	273
	BB	92	92	102	102	112	112	122	122	132	132
	FF	52	52	62	62	72	72	82	82	92	92
	KK	45	45	55	55	65	65	75	75	85	85
	PP	30	30	40	40	50	50	60	60	70	70
	HA	83	88	93	98	103	108	113	118	123	128

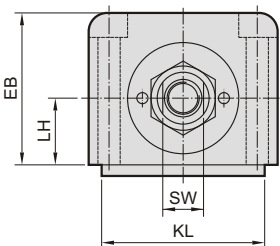
Code Tube I.D.	C	CL	D	EA	EB	FA	FG	H	J	JH	K	KA	KL	KT	KW
$\phi 32$	10	7	20	70	56	56	17	9	M12 $\times$ 1.75	15	9	28	63	8	12
$\phi 40$	10	7	25	80	64	62	18	11	M16 $\times$ 2.0	20	11	28	70	8	12
$\phi 50$	11	8	30	94	74	74	20	13	M20 $\times$ 2.5	25	13	29	80	9	14
$\phi 63$	13	10	35	114	89	90	20	15	M27 $\times$ 3.0	35	15	31	100	10	16

Code Tube I.D.	KX	KY	LH	M	MI	MA	MB	NA	O	OL	PT	R	SW	U	Y
$\phi 32$	24	8	25	14	45	46	36	49	M16 $\times$ 1.5	25	PT 1/4	10	17	4.5	28
$\phi 40$	32	11	29	18	55	54	36	58	M22 $\times$ 1.5	30	PT 1/4	10	22	4.5	28
$\phi 50$	35	14	34	20	60	53	37	59	M26 $\times$ 1.5	35	PT 1/4	10	27	5	29.5
$\phi 63$	41	13	42	22	75	63	39	65	M30 $\times$ 1.5	40	PT 3/8	10	32	5.5	31

Adjustable stroke 50 mm



Adjustable stroke 50 mm



MHCQ-B Dimensions / Adjustable stroke $\phi 32 \sim \phi 80$

COMPACT HYDRAULIC CYLINDERS



Mindman

Tube I.D.	Model	MHCQ-B / MHCQ-Z-B									
	Stroke	5	10	15	20	25	30	35	40	45	50
$\phi 32$	ZB	178	183	198	203	218	223	238	243	258	263
	BB	79	79	89	89	99	99	109	109	119	119
	FF	42	42	52	52	62	62	72	72	82	82
	KK	39	39	49	49	59	59	69	69	79	79
	PP	23	23	33	33	43	43	53	53	63	63
	HB	89	94	99	104	109	114	119	124	129	134
$\phi 40$	ZB	188	193	208	213	228	233	248	253	268	273
	BB	80	80	90	90	100	100	110	110	120	120
	FF	42	42	52	52	62	62	72	72	82	82
	KK	40	40	50	50	60	60	70	70	80	80
	PP	24	24	34	34	44	44	54	54	64	64
	HB	98	103	108	113	118	123	128	133	138	143
$\phi 50$	ZB	196	201	216	221	236	241	256	261	276	281
	BB	85	85	95	95	105	105	115	115	125	125
	FF	45	45	55	55	65	65	75	75	85	85
	KK	42	42	52	52	62	62	72	72	82	82
	PP	26	26	36	36	46	46	56	56	66	66
	HB	100	105	110	115	120	125	130	135	140	145
$\phi 63$	ZB	213	218	233	238	253	258	273	278	293	298
	BB	92	92	102	102	112	112	122	122	132	132
	FF	52	52	62	62	72	72	82	82	92	92
	KK	45	45	55	55	65	65	75	75	85	85
	PP	30	30	40	40	50	50	60	60	70	70
	HB	108	113	118	123	128	133	138	143	148	153

Code	C	CL	D	EA	EB	FA	FG	H	J	JH	K	KA	KL	KT	KW
Tube I.D.															
$\phi 32$	10	7	20	70	56	56	17	9	M12 $\times$ 1.75	15	9	28	63	8	12
$\phi 40$	10	7	25	80	64	62	18	11	M16 $\times$ 2.0	20	11	28	70	8	12
$\phi 50$	11	8	30	94	74	74	20	13	M20 $\times$ 2.5	25	13	29	80	9	14
$\phi 63$	13	10	35	114	89	90	20	15	M27 $\times$ 3.0	35	15	31	100	10	16

Code	KX	KY	LH	M	MI	ME	MF	NB	O	OL	PT	R	SW	U	Y
Tube I.D.															
$\phi 32$	24	8	25	14	46	71	61	74	M16 $\times$ 1.5	25	PT 1/4	10	17	4.5	28
$\phi 40$	32	10	29	18	55	79	61	83	M22 $\times$ 1.5	30	PT 1/4	10	22	4.5	28
$\phi 50$	35	14	34	20	60	78	62	84	M26 $\times$ 1.5	35	PT 1/4	10	27	5	29.5
$\phi 63$	41	13	42	22	75	88	64	90	M30 $\times$ 1.5	40	PT 3/8	10	32	5.5	31