MCQA series

STANDARD CYLINDERS





Table for standard stroke

Tube I.D.		Stroke(mm)
φ 40	50,75,100,125,15	0,175,200,250,300,350,400,450,500
φ 50,63	1	600
φ 80,100	1	600,700
φ 125,150	↑	600,700,800,900,1000
φ 200	1	600,700,800,900,1000,1500

- Stroke out of specification is also available.
- Please consult us if stroke out of specification.

Features

Non lubrication

Special housing and bushing enables self lubrication of piston rod.

■ High quality long service life

Hard anodised aluminium cylinder tubes offer a high resistance to corrosion and low internal friction.

Non standard type

Custom cylinders are available as are non standard strokes, rod extensions and special rod threads.

Cylinder mountings

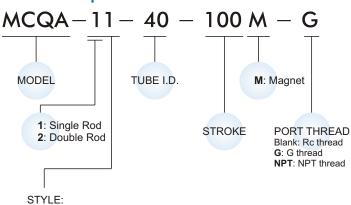
Available with comprehensive internationally recognised range of fixed and flexible mountings.

Specification

Model	MCQA								
Tube I.D. (mm)	40,50,63	0,50,63 80,100 125 150							
Medium	Air								
Operating pressure range	0.05~1 MPa								
Proof pressure	1.5 MPa								
Ambient temperature		-5~+60	ე℃ (No	freezing)				
Available speed range		50~	500 mm	/sec					
Sensor switch (*)	RCA								
Sensor switch holder	HV2	HV4	PM14	PM16	HA5				

* RCA specification, please refer to page V-05.

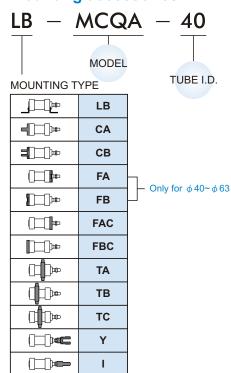
Order example



Co	ode Symbol		Description
1	1		Double acting / Male thread
2	1		Double rod / Male thread
2	7		Double rod / Adjustable male thread (Please mark "adjustable distance(mm)" at order list)

* Order example for special specification, refer to page J-03.

Mounting accessories





MCQA-11 Inside structure & Parts list

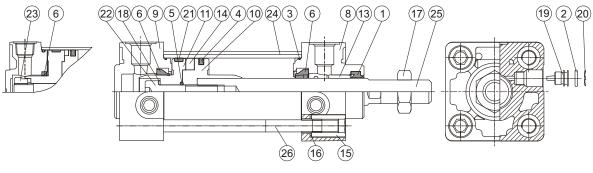


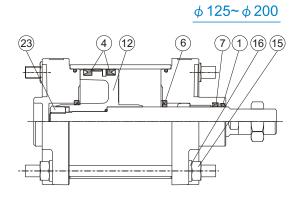
STANDARD CYLINDERS

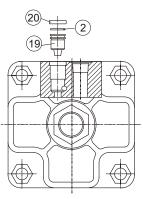
Single rod 11 type

φ 100

φ 40~ φ 100







				Component pa	arts (inclusion)	Repair kits	
No.	Part name	Material	Q'y	φ 40~ φ 100	φ 125~ φ 200	(inclusion)	Note
01	Rod packing	NBR	1	•	•	•	
02	O-ring	NBR	2	•	•	•	
03	O-ring	NBR	2	•	•	•	
04	Piston packing	NBR	1 or 2	•	•	•	φ 125~ φ 200 (Q'y =2)
05	O-ring	NBR	1	•	•	•	
06	Cushion packing	NBR	2	•	•	•	Repair kits ϕ 40~ ϕ 80 (inclusion)
07	Rod packing	NBR	1		•	•	
08	Rod cover	Aluminum alloy	1	•	•		
09	Head cover	Aluminum alloy	1	•	•		
10	Piston-R	Aluminum alloy	1	•			
11	Piston-H	Aluminum alloy	1	•			
12	Piston	Aluminum alloy	1		•		
13	Bush	Bearing alloy	1	•	•		
14	Magnet ring	Magnet material	1	0	©		○ Option
15	Tie rod nut	Carbon steel	8	•	•		
16	Tie rod washer	Carbon steel	8	•	•		
17	Nut	Carbon steel	1	•	•		
18	Washer	Carbon steel	1	•	•		
19	Needle valve	Copper alloy	2	•	•		
20	Needle valve washer	% 1	2	•	•		
21	Wear ring	Teflon	1	•	•		
22	Bolt	Carbon steel	1	•			for φ40~φ80
23	Piston nut	Carbon steel	1		•		for φ 100~ φ 200
24	Cylinder tube	Aluminum alloy	1				
25	Piston rod	Carbon steel	1				
26	Tie rod	Carbon steel	4				

% 1: Spring steel (ϕ 40~ ϕ 100) / Carbon steel (ϕ 125~ ϕ 200).



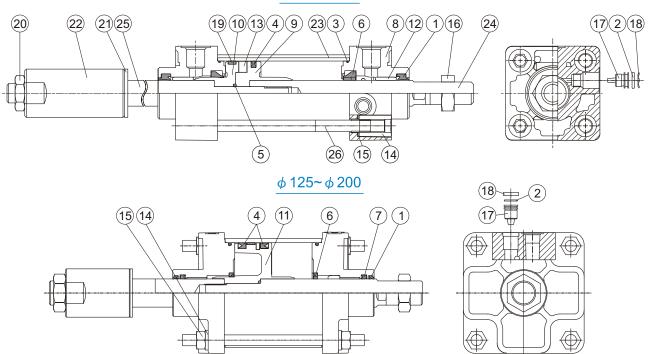
MCQA-2* Inside structure & Parts list



STANDARD CYLINDERS

Double rod 21 / 27 type

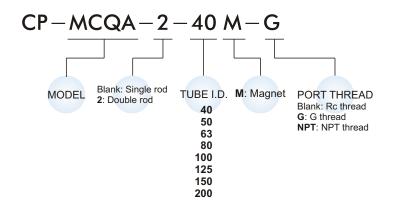
φ 40~ φ 100



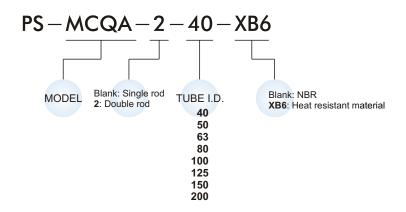
	21 1	type	27	type	- .		01.	Component pa	arts (inclusion)	Repair kits	(inclusion)	
No.	Α	В	Α	В	Part name	Material	Q'y	φ40~φ100	φ 125~ φ 200	φ40~φ100	φ 125~ φ 200	Note
01	•	•	•	•	Rod packing	NBR	2	•	•	•	•	
02	•	•	•	•	O-ring	NBR	2	•	•	•	•	
03	•	•	•	•	O-ring	NBR	2	•	•	•	•	
04	•	•	•	•	Piston packing	NBR	1 or 2	•	•	•	•	φ 125~ φ 200 (Q'y= 2)
05	•	•	•	•	O-ring	NBR	1	•	•	•	•	
06			•		Cushion packing	NBR	2	•	•	•		Repair kits ϕ 40~ ϕ 80 (inclusion)
07		•		•	Rod packing	NBR	2		•		•	
80	•	•	•	•	Rod cover	Aluminum alloy	2	•	•			
09	•		•		Piston-R	Aluminum alloy	1	•				
10	•				Piston-H	Aluminum alloy	1	•				
11		•		•	Piston	Aluminum alloy	1		•			
12		•		•	Bush	Bearing alloy	2	•	•			
13	0	0	0	0	Magnet ring	Magnet material	1					○ Option
14	•	•		•	Tie rod nut	Carbon steel	8	•	•			
15	•	•	•	•	Tie rod washer	Carbon steel	8	•	•			
16	•	•		•	Screw	Carbon steel	1	•	•			
17	•	•	•	•	Needle valve	Copper alloy	2	•	•			
18	•	•		•	Needle valve washer	% 1	2	•	•			
19	•	•	•	•	Wear ring	Teflon	1	•	•			
20	•	•		•	Screw	Carbon steel	1	•	•			
21			•	•	Gasket	PU	1					
22				•	Adjustable nut	Carbon steel	1					
23		•	•	•	Cylinder tube	Aluminum alloy	1					
24		•		•	Piston rod #1	Carbon steel	1					
25		•	•	•	Piston rod #2	Carbon steel	1					
26	•	•	•	•	Tie rod	Carbon steel	4					



■ Order example of component parts



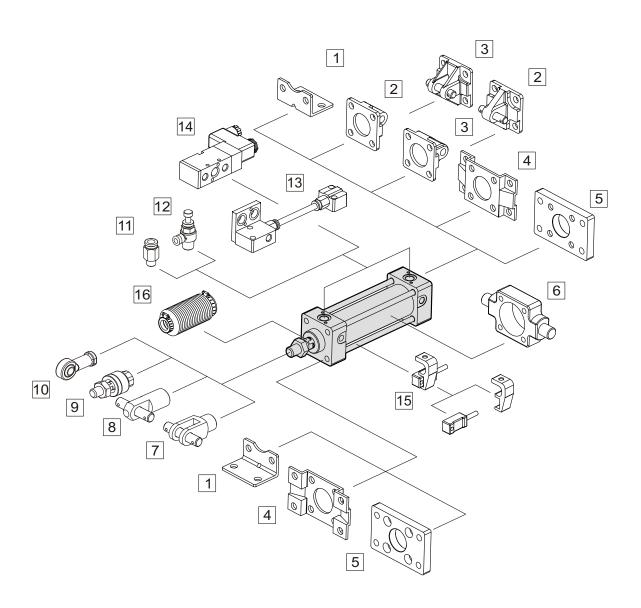
■ Order example of repair kits



MCQA Accessories



STANDARD CYLINDERS

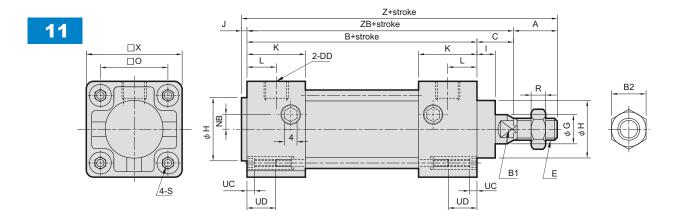


No.	Accessories	Page
1	Mounting accessories LB	J-19
2	Mounting accessories CA+PIN	J-22, 31
3	Mounting accessories CB+PIN	J-22, 31
4	Mounting accessories FA/FB	J-20, 21
5	Mounting accessories FAC/FBC	J-20, 21
6	Mounting accessories TA/TB/TC	J-23, 24
7	Accessories Y+PIN	J-31
8	Accessories I+PIN	J-31

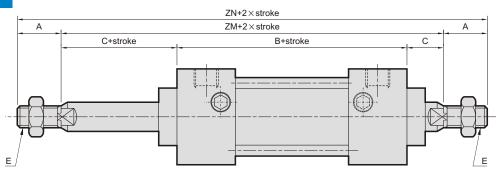
No.	Accessories	Page
9	Floating joint MFC	V-01
10	Female rod ends PHS	V-04
11	Fitting PC (PISCO)	H-03
12	Speed controller JSC (PISCO)	H-14
13	Solenoid valve link seats VR/VH	J-22
14	Solenoid valve MVSC-260/300	A-14, 17
15	Sensor switch RCA+HV*	V-05
16	Protective bellows kit	



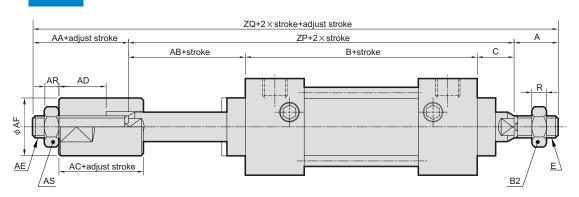




21



27

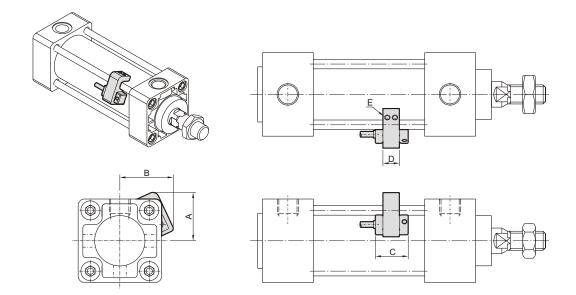


Code Tube I.D.	Α	AA	ΑB	AC	ΑD	AE	AF	AR	AS	В	В1	B2	C	DD	E	G	Н	ı	J	K	L	NB	0	R
40	30	21	18	12	7	$M12\!\times\!1.25$	30	7	19	84	14	22	21	Rc1/4	M14×1.5	16	32	11	3	26	13	8	40.5	8
50	35	23	18	15	10	M16×1.5	40	8	24	90	17	27	23	Rc3/8	M18×1.5	20	40	11	3	28	14	0	48	11
63	35	23	18	15	10	M16×1.5	40	8	24	98	17	27	23	Rc3/8	M18×1.5	20	40	11	3	30	15	0	59	11
80	40	33	24	20	14	M22×1.5	50	13	32	116	22	32	31	Rc1/2	M22×1.5	25	45	15	4	34	17	0	74	13
100	40	33	24	20	14	M22×1.5	50	13	32	126	27	36	32	Rc1/2	M26×1.5	30	52	15	5	37	18.5	0	90	14

Code Tube I.D.	S	UC	UD	X	Z	ZB	ZM	ZN	ZP	ZQ
40	M8×1.25	4	12	58	138	105	126	186	123	174
50	M8×1.25	4	12	66	151	113	136	206	131	189
63	M8×1.25	4	12	80	159	121	144	214	139	197
80	M12×1.75	4	15	100	191	147	178	258	171	244
100	M12×1.75	4	15	118	203	158	190	270	182	255



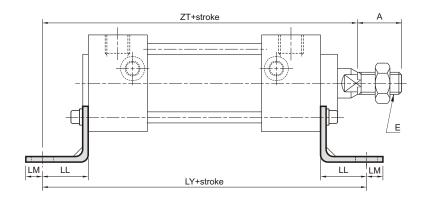


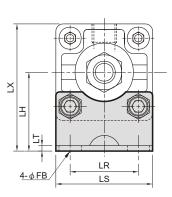


Code Tube I.D.	Sensor switch	Hold	Α	В	С	D	E
40	RCA	HV2	36	41	26	13	M4×10L
50	RCA	HV2	38	43	26	13	M4×10L
63	RCA	HV2	46	49	26	13	M4×10L
80	RCA	HV4	52	55	26	13	M4×10L
100	RCA	HV4	59	62	26	13	M4×10L
125	RCA	PM14	_	_	26	12	M4×10L
150	RCA	PM16	_	_	26	12	M4×10L
200	RCA	HA5	_	_	26	15	M4×10L

■ Mounting accessories

LB





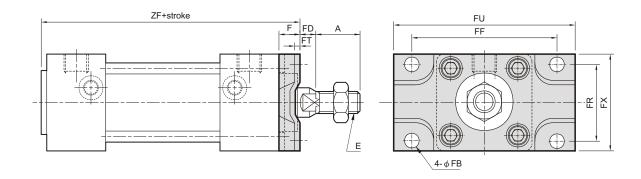
Code Tube I.D.	Α	E	FB	LH	LL	LM	LR	LS	LT	LX	LY	ZT
40	30	M14×1.5	9	40	27	13	42	58	3.2	69	138	132
50	35	M18×1.5	9	45	27	13	50	66	3.2	78	144	140
63	35	M18×1.5	11.5	50	34	16	59	80	4.5	90	166	155
80	40	M22×1.5	14	65	44	16	76	100	6	115	204	191
100	40	M26×1.5	14	75	43	17	92	118	6	134	212	201





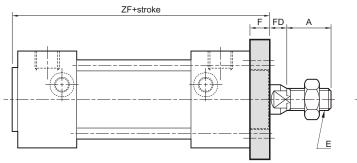


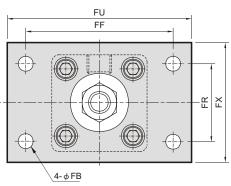
Note: This type is applied to the cylinder which the stroke is within 500mm. If the stroke is over 500mm, we advise to choise the **FAC** type.



Code Tube I.D.	Α	E	F	FB	FD	FF	FR	FT	FU	FX	ZF
40	30	M14×1.5	12	9	9	80	42	3.2	100	58	99
50	35	M18×1.5	12	9	11	90	50	3.2	110	66	105
63	35	M18×1.5	15	11.5	8	105	59	4.5	130	80	116

FAC





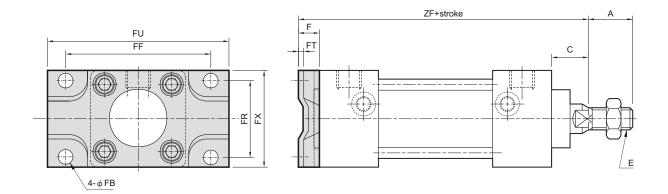
Code Tube I.D.	Α	E	F	FB	FD	FF	FR	FU	FX	ZF
40	30	M14×1.5	12	9	9	80	42	100	65	99
50	35	M18×1.5	12	9	11	90	50	110	73	105
63	35	M18×1.5	15	11.5	8	105	59	130	84	116
80	40	M22×1.5	18	14	13	130	76	160	108	138
100	40	M26×1.5	18	14	14	150	92	180	124	149



STANDARD CYLINDERS

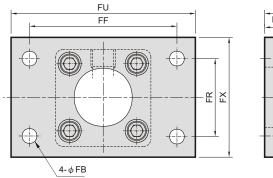
FB

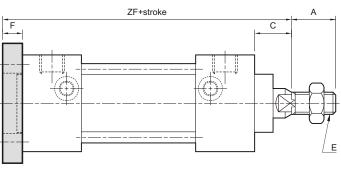
Note: This type is applied to the cylinder which the stroke is within 500mm. If the stroke is over 500mm, we advise to choise the **FBC** type.



Code Tube I.D.	Α	E	С	F	FB	FF	FR	FT	FU	FX	ZF
40	30	M14×1.5	21	12	9	80	42	3.2	100	58	117
50	35	M18×1.5	23	12	9	90	50	3.2	110	66	125
63	35	M18×1.5	23	15	11.5	105	59	4.5	130	80	136

FBC





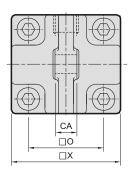
Code Tube I.D	Α	С	E	F	FB	FF	FR	FU	FX	ZF
40	30	21	M14×1.5	12	9	80	42	100	65	117
50	35	23	M18×1.5	12	9	90	50	110	73	125
63	35	23	M18×1.5	15	11.5	105	59	130	84	136
80	40	31	M22×1.5	18	14	130	76	160	108	165
100	40	32	M26×1.5	18	14	150	92	180	124	176

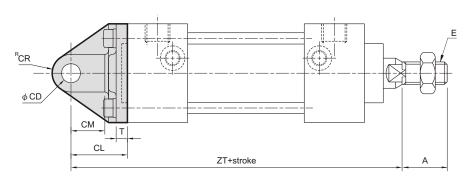




STANDARD CYLINDERS

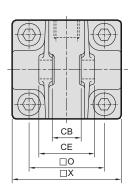
CA

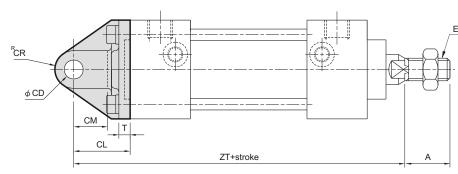




Code Tube I.D.	Α	CA	CD	CL	СМ	CR	E	0	Т	Х	ZT
40	30	$15 \begin{array}{c} -0.1 \\ -0.3 \end{array}$	10 ^{H10}	30	18	10	M14×1.5	40.5	5	58	135
50	35	18 -0.1	12 ^{H10}	35	22	12	M18×1.5	48	5	66	148
63	35	$25 \begin{array}{c} -0.1 \\ -0.3 \end{array}$	16 ^{H10}	40	27	16	M18×1.5	59	5	80	161
80	40	$31.5^{-0.1}_{-0.3}$	20 ^{H10}	48	30	20	M22×1.5	74	7.5	100	195
100	40	$35.5^{-0.1}_{-0.3}$	25 ^{H10}	58	38	25	M26×1.5	90	7.5	118	216

CB





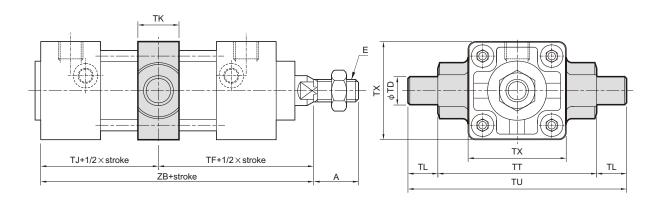
Code Tube I.D.	Α	СВ	CD	CE	CL	СМ	CR	E	0	Т	Х	ZT
40	30	15 +0.3 +0.1	10 ^{H10}	31.5	30	18	10	M14×1.5	40.5	5	58	135
50	35	18 +0.3 +0.1	12 ^{H10}	40.5	35	22	12	M18×1.5	48	5	66	148
63	35	25 +0.3 +0.1	16 ^{H10}	53	40	27	16	M18×1.5	59	5	80	161
80	40	31.5+0.1	20 ^{H10}	60.8	48	30	20	M22×1.5	74	7.5	100	195
100	40	35.5+0.1	25 ^{H10}	69	58	38	25	M26×1.5	90	7.5	118	216





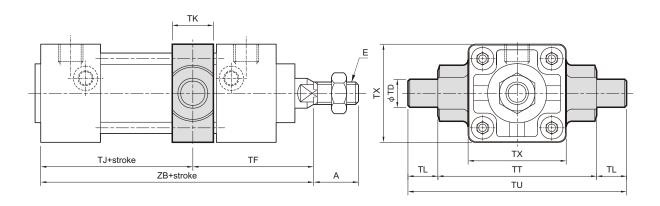
STANDARD CYLINDERS

TC



Code Tube I.D.	Α	E	TD	TF	TJ	TK	TL	TT	TU	TX	ZB
40	30	M14×1.5	15 ^{e8}	63	42	22	16	85	117	58	105
50	35	M18×1.5	15 ^{e8}	68	45	22	16	95	127	67	113
63	35	M18×1.5		72	49	28	19	110	148	82	121
80	40	M22×1.5	25 ^{e8}	89	58	34	26	140	192	102	147
100	40	M26×1.5	25 ^{e8}	95	63	40	26	162	214	122	158

TA

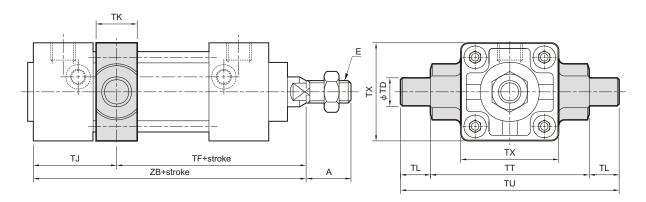


Code	Α	Е	TD	TF	without	magnet	mag	gnet	TK	TL	тт	TU	тх
Tube I.D.	A		טו	IF	TJ	ZB	TJ	ZB	IK	12	- ' '	10	17
40	30	M14×1.5	15 ^{e8}	60	45	105	75	135	22	16	85	117	58
50	35	M18×1.5	15 ^{e8}	64	49	113	79	143	22	16	95	127	67
63	35	M18×1.5	18 ^{e8}	69	52	121	82	151	28	19	110	148	82
80	40	M22×1.5	25 ^{e8}	85	62	147	102	187	34	26	140	192	102
100	40	M26×1.5	25 ^{e8}	92	66	158	106	198	40	26	162	214	122





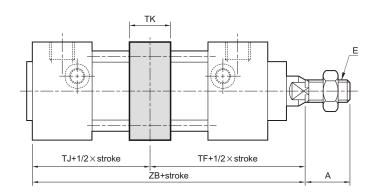
STANDARD CYLINDERS

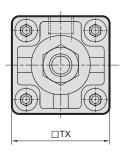


Code	^	Е	TD	without	magnet	mag	gnet	TJ	тк	TL	тт	TU	тх
Tube I.D.	Α	_	טו	TF	ZB	TF	ZB	13	IK	12	'''	10	17
40	30	M14×1.5	15 ^{e8}	66	105	96	135	39	22	16	85	117	58
50	35	M18×1.5	15 ^{e8}	72	113	102	143	41	22	16	95	127	67
63	35	M18×1.5	18 ^{e8}	75	121	105	151	46	28	19	110	148	82
80	40	M22×1.5	25 ^{e8}	93	147	133	187	54	34	26	140	192	102
100	40	M26×1.5	25 ^{e8}	98	158	138	198	60	40	26	162	214	122

SDS

Stroke over 1000mm



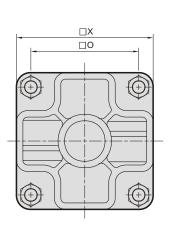


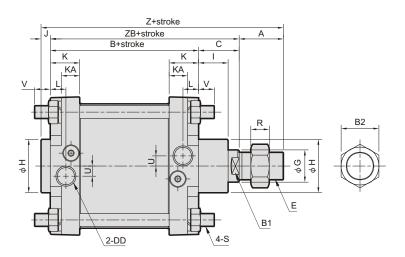
Code Tube I.D.	Α	E	TF	TJ	TK	TX	ZB
40	30	M14×1.5	63	42	22	58	105
50	35	M18×1.5	68	45	22	67	113
63	35	M18×1.5	72	49	28	82	121
80	40	M22×1.5	89	58	34	102	147
100	40	M26×1.5	95	63	40	122	158



STANDARD CYLINDERS

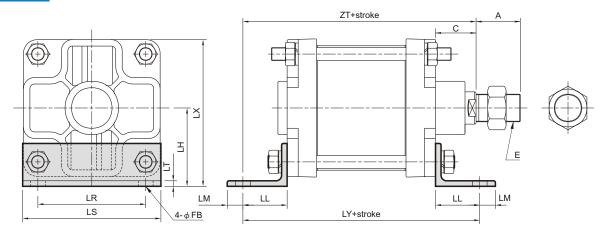
11





Code Tube I.D.	Α	В	В1	B2	С	DD	Е	G	Н	_	J	K	KA	L	0	R	S	C	٧	Х	Z	ZB
125	45	136	30	41	47	PT 1/2	$M30\!\times\!1.5$	35	58	32	10	32	20	17	117	15	M14×1.5	11	20	150	238	183
150	50	153	36	41	47	PT 1/2	M30×1.5	40	60	32	8	40.5	25	24.5	134	15	M16×1.5	12	26	175	258	200
200	63	154	46	70	67	PT 3/4	M45×1.5	50	74	35	8	42	25	24	182	27	M20×1.5	12	18	226	292	221

LB



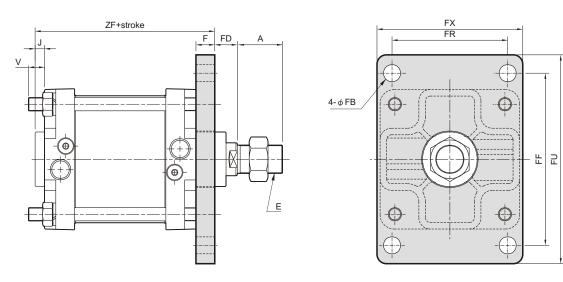
Code Tube I.D.	Α	E	FB	LH	LL	LM	LR	LS	LT	LX	LY	ZT
125	45	M30×1.5	16	85	48	17	117	150	6	162	232	231
150	50	M30×1.5	18	96.5	55	20	134	175	9	184	263	255
200	63	M45×1.5	24	132	60	30	150	226	10	245	274	281





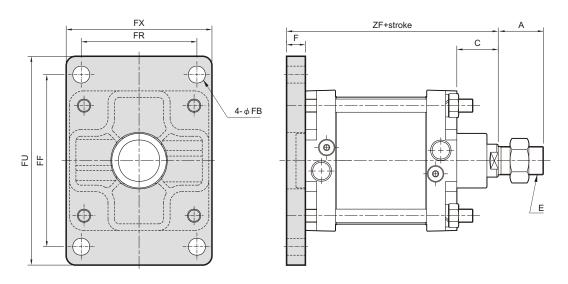
STANDARD CYLINDERS

FAC



Code Tube I.D.	Α	E	F	FB	FD	FF	FR	FU	FX	J	٧	ZF
125	45	M30×1.5	20	18	27	183	123	222	155	10	20	166
150	50	M30×1.5	20	18	27	230	134	275	185	8	26	181
200	63	M45×1.5	25	24	42	280	150	335	225	8	11	187

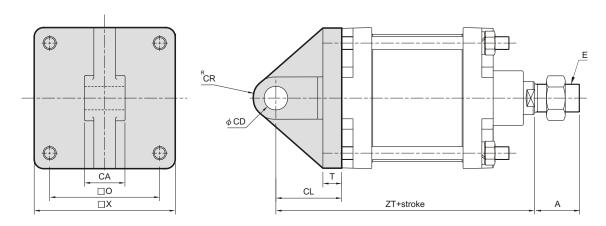
FBC



Code Tube I.D.	Α	С	Е	F	FB	FF	FR	FU	FX	ZF
125	45	47	M30×1.5	20	18	183	123	222	155	203
150	50	47	M30×1.5	20	18	230	134	275	185	220
200	63	67	M45×1.5	25	24	280	150	335	225	246

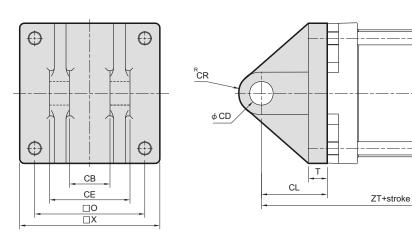


CA



Code Tube I.D.	Α	CA	CD	CL	CR	E	0	Т	Х	ZT
125	45	$43^{-0.1}_{-0.3}$	25 ^{H10}	65	24	M30×1.5	117	15	150	248
150	50	$40^{-0.1}_{-0.3}$	30 ^{H10}	78	27.5	M30×1.5	134	20	175	278
200	63	$50^{-0.1}_{-0.3}$	40 ^{H10}	85	40	M45×1.5	182	25	226	306

СВ

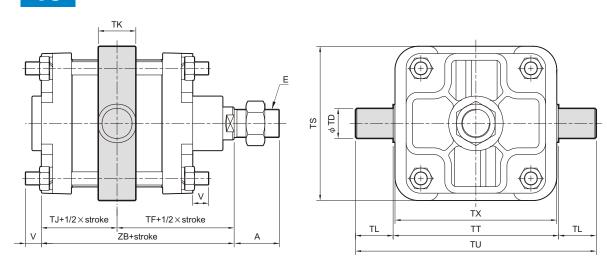


Code Tube I.D.	Α	СВ	CD	CE	CL	CR	E	0	Т	Х	ZT
125	45	$43^{+0.3}_{+0.1}$	25 ^{H10}	85.5	70	24	M30×1.5	117	20	150	253
150	50	40+0.3	30 ^{H10}	90	78	27.5	M30×1.5	134	20	175	278
200	63	50 ^{+0.3} _{+0.1}	40 ^{H10}	100	85	40	M45×1.5	182	25	226	306



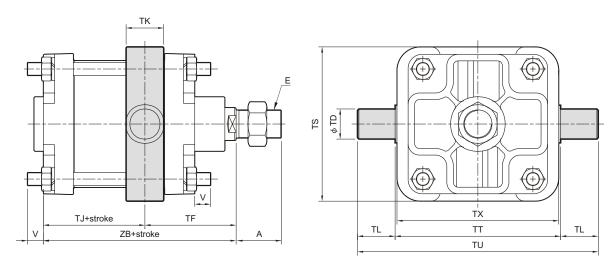
STANDARD CYLINDERS

TC



Code Tube I.D.	Α	E	TD	TF	TJ	TK	TL	TS	TT	TU	TX	V	ZB
125	45	M30×1.5	32 ^{e8}	115	68	40	40	164	176	256	172	17	183
150	50	M30×1.5	35 ^{e8}	123.5	76.5	41	40	194	200	280	198	16	200
200	63	M45×1.5	45 ^{e8}	144	77	59	45	255	265	355	255	8.5	221

TA



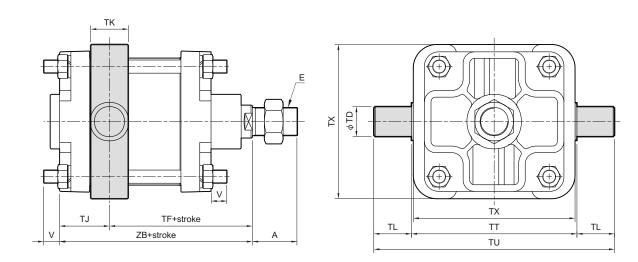
Code	_	_	TD	TF	without	magnet	mag	gnet	тк	TI	TS	тт	TII	TV	W
Tube I.D.	A	_	טו	115	TJ	ZB	TJ	ZB	IK	IL.	13	''	10	1^	V
125	45	M30×1.5	32 ^{e8}	100	83	183	129	229	40	40	164	176	256	172	17
150	50	M30×1.5	35 ^{e8}	109	91	200	137	246	41	40	194	200	280	198	16
200	63	M45×1.5	45 ^{e8}	139.5	81.5	221	125.5	265	59	45	255	265	355	255	8.5





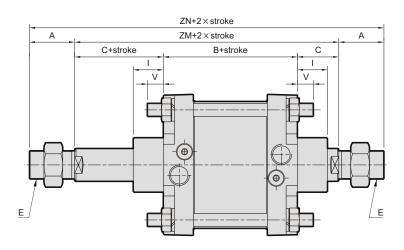


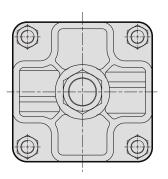
TB



Code	_	_	TD	without	magnet	mag	gnet	TJ	TK	TI	TS	тт	TII	TV	V
Tube I.D.	^	_	טו	TF	ZB	TF	ZB	13	IK	IL.	13	- ' '	10	17	V
125	45	M30×1.5	32 ^{e8}	130	183	176	229	53	40	40	164	176	256	172	17
150	50	M30×1.5	35 ^{e8}	138	200	184	246	62	41	40	194	200	280	198	16
200	63	M45×1.5	45 ^{e8}	148.5	221	192.5	265	72.5	59	45	255	265	355	255	8.5

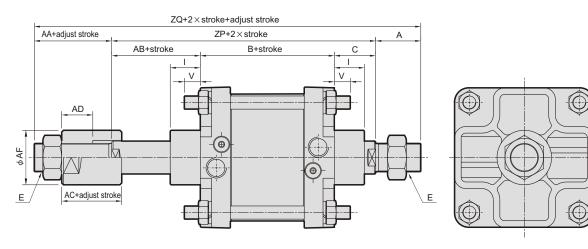
21





Code Tube I.D.	Α	В	С	E	I	V	ZM	ZN
125	45	136	47	M30×1.5	32	20	230	320
150	50	153	47	M30×1.5	32	26	247	347
200	63	154	67	M45×1.5	35	18	288	414

27



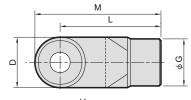
Code Tube I.D.	Α	AA	AB	AC	AD	AF	В	С	E	I	V	ZM	ZN	ZP	ZQ
125	45	38	47	30	18	60	136	47	M30×1.5	32	20	230	320	230	313
150	50	38	47	30	18	60	153	47	M30×1.5	32	26	247	347	247	335
200	63	38	50	30	18	70	154	67	M45×1.5	35	18	288	414	271	372

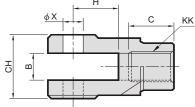


//✓ windman

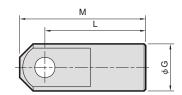
STANDARD CYLINDERS

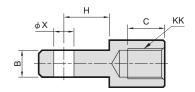
Y connector





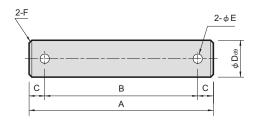
Connector



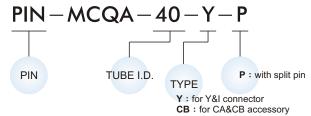


Code	E	3	(3	С	Н	[)	(3	ŀ	1	KK	I	_	I	Λ	▼ H10
Tube I.D.	Υ	- 1	Υ	-1	Υ	-1	Υ	-1	Υ	1	Υ	-1	ΥI	Υ	-1	Υ	I	^
40	16 ^{+0.3} _{+0.1}	$16^{-0.1}_{-0.3}$	25	20	38	$\overline{}$	26	$\overline{}$	φ24	φ24	25	25	M14×1.5	55	55	68	68	φ12 ^{+0.07} ₀
50	16 ^{+0.3}	16-0.1	27	22	38		30		428	φ28	27	27	M18×1.5	60	60	75	75	φ12 ^{+0.07}
63	10+0.1	10_0.3	21	22	50		30		Ψ20	Ψ20	21	21	W110 × 1.3	00	00	73	75	_
80	28+0.3	$28^{-0.1}_{-0.3}$	32	27	55		38		φ36	φ36	32	32	M22×1.5	71	71	90	90	φ18 ^{+0.07} ₀
100	$30^{+0.3}_{+0.1}$	$30^{-0.1}_{-0.3}$	35	30	59		42		φ40	φ40	38	38	M26×1.5	83	83	104	104	$\phi_{20^{+0.08}}$
125	$32^{+0.3}_{+0.1}$	$32^{-0.1}_{-0.3}$	35	40	76		58		Φ45	Φ49	38	32	M30×1.5	80	80	109	109	$\phi_{20^{+0.08}}$
150			35	40	84	$\overline{/}$	54	$\overline{/}$	φ45	φ60	39	32	M30×1.5	80	80	107	107	$\phi_{25^{+0.08}}^{+0.08}$
200	50 ^{+0.3} _{+0.1}	$50^{-0.1}_{-0.3}$	67	67	100	$\overline{}$	85	\nearrow	φ70	φ70	54	44	M45×1.5	125	125	167.5	167.5	φ40 ^{+0.1} ₀

Pin



Order example



for Y & I connector

Code Tube I.D.	Α	В	С	D ^{d9}	Е	F	Split pin
40 63	57	46	5.5	φ12 ^{-0.05} _{-0.09}	3.5	1.0	3.2×20L
80	78	64	7	ϕ 18 $^{-0.05}_{-0.09}$	4	1.2	4×25L
100	87	70	8.5	$\phi 20^{-0.06}_{-0.12}$	5	1.5	5×35L
125	100	83	8.5	$\phi_{20^{-0.06}_{-0.12}}$	5	1.5	5×35L
150	112	95	8.5	$\phi_{25^{-0.06}_{-0.12}}$	5	2.0	5×35L
200	115	105	5	$\phi_{40^{-0.08}_{-0.14}}$	5	2.0	5×55L

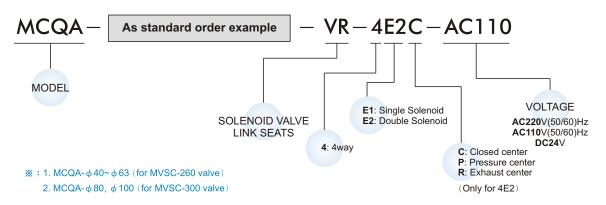
for CA & CB

101 0	7 G C						
Code Tube I.D.	Α	В	С	D ^{d9}	Е	F	Split pin
40	48	37	5.5	ϕ 10 $^{-0.05}_{-0.09}$	3.5	1.0	3.2×20L
50	57	46	5.5	ϕ 12 $^{-0.05}_{-0.09}$	3.5	1.0	3.2×20L
63	72	58	7	ϕ 16 $^{-0.05}_{-0.09}$	4	1.2	4×25L
80	87	70	8.5	$\phi_{20^{-0.06}_{-0.12}}$	5	1.5	5×35L
100	93	76	8.5	$\phi_{25^{-0.06}_{-0.12}}$	5	1.5	5×35L
125	112	95	8.5	$\phi_{25^{-0.06}_{-0.12}}$	5	1.5	5×35L
150	119	102	8.5	$\phi_{30^{-0.06}_{-0.12}}$	5	2.0	5×40L
200	115	105	5	$\phi_{40^{-0.08}_{-0.14}}$	5	2.0	5×55L

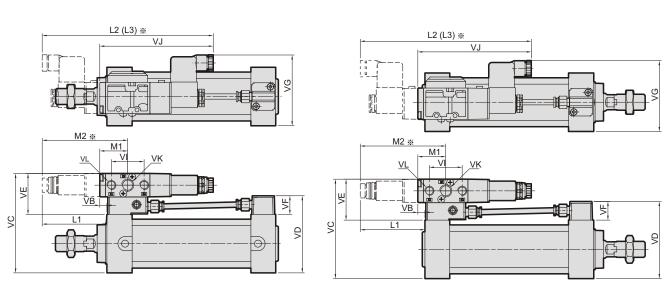




Order example







Code Tube I.D.	L1	L2	L3	M1	M2	VB	VC	VD	VE	VF	VG	VI	٧J	VK	VL	Valve type
40	77.5	199	220	31.5	99.5	9.5	104.2	79	46.2	21	76	37	131	Rc1/4	Rc1/8	MVSC-260
50	78.5	199	220	31.5	99.5	8.5	112.2	87	46.2	21	80	37	131	Rc1/4	Rc1/8	MVSC-260
63	79.5	199	220	31.5	99.5	7.5	126.2	101	46.2	21	87	37	131	Rc1/4	Rc1/8	MVSC-260
80	80.5	222	275	45	111	14.5	159	128	59	28	90	52	156	Rc3/8	Rc3/8	MVSC-300
100	78.5	222	275	45	111	12.5	179	146	59	28	104	52	156	Rc3/8	Rc3/8	MVSC-300

* L2 for 4E2 size, L3 for 4E2C.P.R size, M2 for 4E2 and 4E2C.P.R size.

