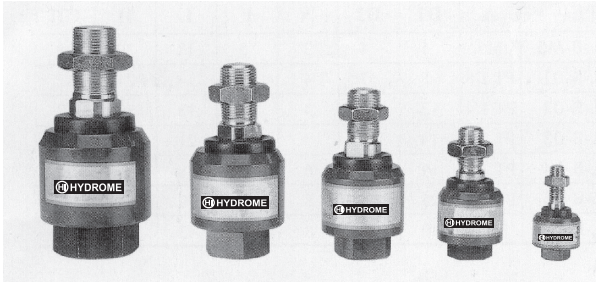


STANDARD CYLINDER-FLOATATION CONNECTOR



HOW TO ORDER



FEATURES:

- The minor error connects between two shafts can be removed.
- The machining accuracy can be neglected.
- The shaft alignment's time for the error tolerance connects between two shafts can be finished and installed easily, even the newcomer can do also.
- The abnormal noise can be prohibited.
- Small in dimension but can be loaded high tension & compression.
- Long time for the machine parts and the packing in the cylinder or the rod sealing's damage can be prohibited, reduced the producing's cost.
- The compression's decrease can be prohibited.

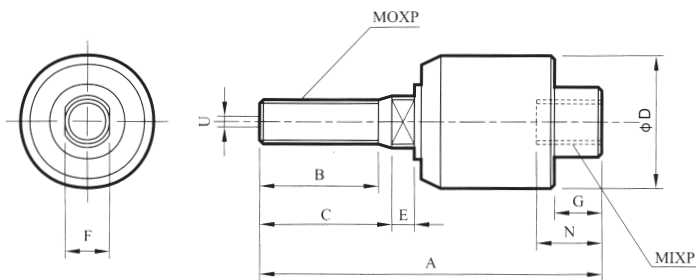
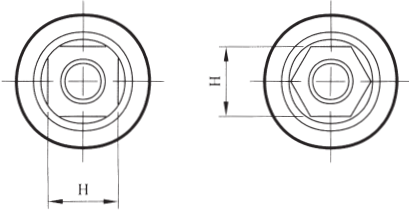


Fig.1

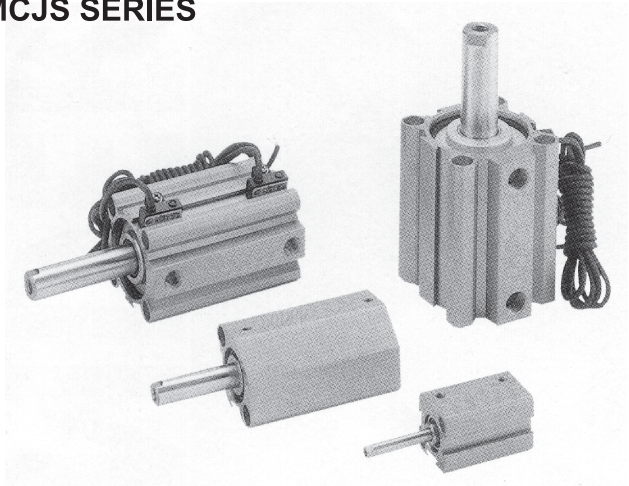
Fig.2



MODEL	CYL. DIA	MIXP	MOXP	A	B	C	D	E	F	G	H	N	Permissible U deviation	Illustration fig no.
MFC-1004T	10	M4×0.7	M4×0.7	26	10	10	12	1.5	4	4	5	5	0.5	Fig.1
MFC-1005T	10, 15	M5×0.8	M5×0.8	37	12.5	15	18	3	6	5	10	7	0.5	Fig.1
MFC-1006T	15	M6×1.0	M6×1.0	37	12.5	15	18	3	6	5	10	7	0.5	Fig.1
MFC-1008T	20	M8×1.25	M8×1.25	50	18	20	24	4	8	7	13	8	0.5	Fig.1
MFC-1010T	25, 30	M10×1.25	M10×1.25	58	20	22	26	5	10	8	17	9	0.75	Fig.1
MFC-1012T	40	M12×1.25/1.5	M12×1.25/1.5	58	20	22	28	5	12	8	17	9	0.75	Fig.1
MFC-1014T	40	M14×1.5	M14×1.5	70	20	23	35	7	14	9	22	13	1	Fig.1
MFC-1016T	50, 63	M16×1.5	M16×1.5	90	25	28	45	9	17	13	27	15	1.25	Fig.1
MFC-1018T	50, 63	M18×1.5	M18×1.5	90	25	28	45	9	17	13	27	15	1.25	Fig.1
MFC-1020T	80	M20×1.5	M20×1.5	102	29	32	53	10	22	15	32	18	2	Fig.2
MFC-1022T	80	M22×1.5	M22×1.5	102	29	32	53	10	22	15	32	18	2	Fig.2
MFC-1024T	100	M24×1.5	M24×1.5	124	35	38	61	12	26	19	41	24	2.5	Fig.2
MFC-1026T	100	M26×1.5	M26×1.5	124	35	38	61	12	26	19	41	24	2.5	Fig.2
MFC-1030T	120, 130	M30×1.5	M30×1.5	156	53	61	63	18	30	24	40	25	-	Fig.2
MFC-1036T	140, 160	M36×1.5	M36×1.6	199	64	72	75	18	36	24	48	46	-	Fig.2

COMPACT CYLINDER

MCJS SERIES

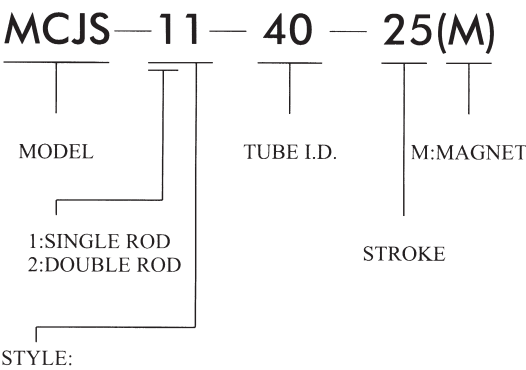


FEATURES:

- Ultra-compact,lightweight,space-saving type.
- Available with a comprehensive selection of bore size (ϕ 12mm~ ϕ 100mm) for the various needs.
- The highly accurate,air-driven push-pull work.

MODEL	MCJS		
I.D. (mm)	12, 16, 20, 25	32, 40	50, 63, 80, 100
Port size RC(PT)	M5	PT 1/8	PT 1/4
Media	Air		
Operating pressure	0.5-9.kgf/cm ²		
Proof pressure	15kgf/cm ²		
Ambient temperature	5~60℃		
Cushion	With rubber cushion pad		
Lubrication	Non-lubrication		

HOW TO ORDER



DOUBLE ACTING — Table for Standard Stroke

	tube I.D.	stroke (mm)	Max. stroke
Single rod	ϕ 12	5, 10, 15, 20, 25, 30	35
	ϕ 16	5, 10, 15, 20, 25, 30	80
	ϕ 20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	80
	ϕ 32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	110
	ϕ 50~100	10, 15, 20, 25, 30, 35, 40, 45, 50	115
Dual rod	ϕ 12	5, 10, 15, 20, 25, 30	35
	ϕ 16	5, 10, 15, 20, 25, 30	70
	ϕ 20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	70
	ϕ 32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	110
	ϕ 50~100	10, 15, 20, 25, 30, 35, 40, 45, 50	115

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

SINGLE ACTING — Table for Standard Stroke

tube I.D.	stroke (mm)
ϕ 12, 16, 20, 25, 32, 40	5, 10
ϕ 50	10, 20

CODE	SYMBOL	DESCRIPTION
1 1		Double acting/Male thread
1 2		Double acting/Female thread
1 3		Single acting/Normally extended male thread
1 4		Single acting/Normally extended female thread
1 5		Single acting/Normally returned male thread
1 6		Single acting/Normally returned female thread
2 1		Dual rod/Male thread
2 2		Dual rod/Female thread
2 7		Dual rod/Adjustable/Male thread Please mark "adjustable distance (mm)" at order list
2 8		Dual rod/Adjustable/Female thread Please mark "adjustable distance (mm)" at order list

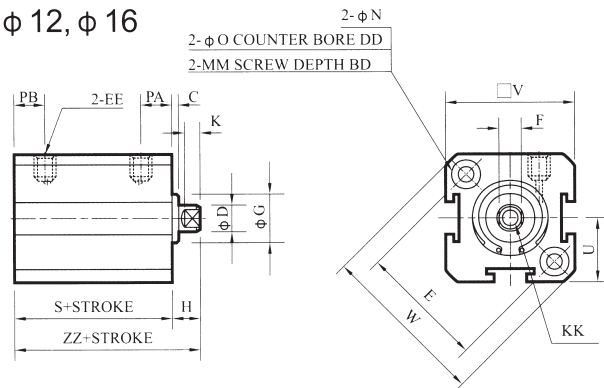
COMPACT CYLINDER

MCJS SERIES

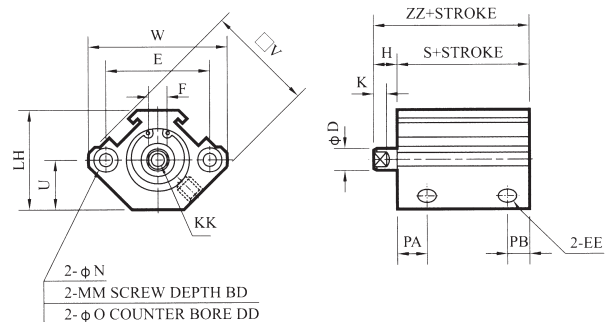
DIMENSIONS

MCJS-12

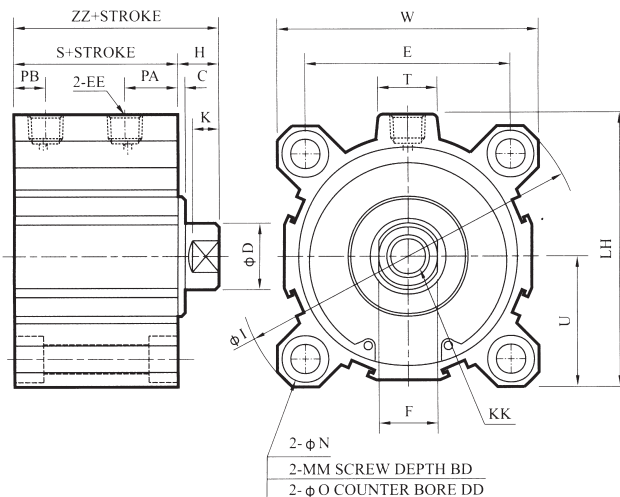
φ 12, φ 16



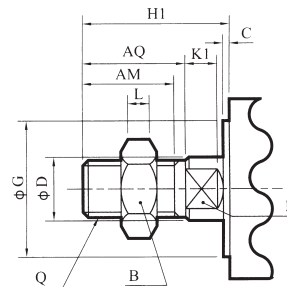
φ 20, φ 25



φ 32~ φ 100



MCJS-11



CODE TUBE I.D.	AM	AQ	B	H1	K1	L	Q
12	9	10.5	8	15.5	3	4	M5×0.8
16	9	10.5	8	15.5	3	4	M5×0.8
20	12	14	13	18.5	3	5	M8×1.25
25	15	17.5	17	22.5	3	6	M10×1.25
32	20.5	23.5	22	28.5	5	8	M14×1.5
40	20.5	23.5	22	28.5	7	8	M14×1.5
50	26	28.5	27	33.5	8	11	M18×1.5
63	26	28.5	27	33.5	8	11	M18×1.5
80	32.5	35.5	32	51	10	13	M22×1.5
100	32.5	35.5	36	55	14	16	M26×1.5

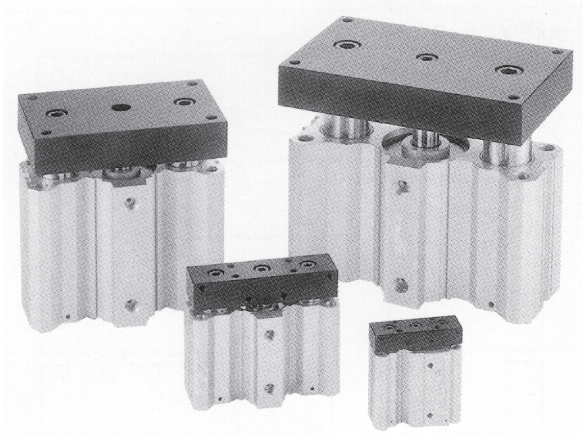
OUTER SIZE TABLE

CODE TUBE I.D.	BD	C	D	DD	E	EE	F	G	H	I	K	KK	LH	MM	N	O	PA	PB	S(*)	T	U	V	W	ZZ(*)
12	7	1	6	3.5	22	M5×0.8	5	11 ⁰ _{-0.1}	5	-	3	M3×0.5 SCREW DEEP 6	-	M4×0.7	3.5	6	6.5	6.5	22 (17)	-	12.5	25	32	27 (22)
16	7	1.5	6	3.5	28	M5×0.8	5	11 ⁰ _{-0.1}	5.5	-	3	M3×0.5 SCREW DEEP 6	-	M4×0.7	3.5	6	7.2	7.2	28.5 (18.5)	-	14.5	29	37.5	34 (24)
20	10	-	10	7	36	M5×0.8	8	-	4.5	-	3	M5×0.8 SCREW DEEP 7	30	M6×1.0	5.5	9	8	5.5	29.5 (19.5)	-	15	37	47	34 (24)
25	10	-	12	7	40	M5×0.8	10	-	5	-	3	M6×1.0 SCREW DEEP 12	35	M6×1.0	5.5	9	9.5	5.5	32.5 (22.5)	-	17.5	40	52	37.5 (27.5)
32	10	-	16	7	34	PT 1/8	14	-	7	60	5	M8×1.25 SCREW DEEP 13	49.5	M6×1.0	5.5	9	10.5	8	33 (23)	18	22.5	-	45	40 (30)
40	10	-	16	7	40	PT 1/8	14	-	7	69	7	M8×1.25 SCREW DEEP 13	57	M6×1.0	5.5	9	11	8	39.5 (29.5)	18	26	-	52	46.5 (36.5)
50	14	-	20	8	50	PT 1/4	17	-	8	86	6	M10×1.5 SCREW DEEP 15	71	M8×1.25	6.8	10.5	10.5	10.5	40.5 (30.5)	22	32	-	64	48.5 (38.5)
63	18	-	20	10.5	60	PT 1/4	17	-	8	103	6	M10×1.5 SCREW DEEP 15	84	M10×1.5	9.2	14	14.5	10.5	46 (36)	22	38.5	-	77	54 (44)
80	22	2.5	25	11	77	PT 1/4	22	45 ⁰ _{-0.1}	15.5	131	10	M16×2 SCREW DEEP 21	102.4	M12×1.75	11	17	20	12	52 (42)	22	49	-	98	67.5 (57.5)
100	22	2.5	30	11	94	PT 1/4	27	55 ⁰ _{-0.1}	19.5	156	14	M20×2.5 SCREW DEEP 27	121.5	M12×1.75	11	17.5	22	13	57.5 (47.5)	22	58.5	-	117	77 (67)

●S() and ZZ() indicate the size of that without magnet ring.

TWIN-GUIDE CYLINDER

MCGA SERIES



FEATURES:

- Strong cylinder suitable for heavy load, for stopping work carriers of various sizes at a fixed position, and for stacking many work carriers, etc.
- The strong and thick guide rods sustain the unbalanced load.
- Designed for right-angled turn, positioning, and lifting on the conveyor line.
- Port thread BSP, NPT, are also available.

SPECIFICATIONS:

TUBE I.D. PROPERTY	φ 20	φ 32	φ 40	φ 50	φ 63	φ 80
Model (Stop Type view) UP VIEW						
Operation type	Double acting					
Media	Air					
Working pressure	1~9.9kgf/cm ²					
Proof pressure	15kgf/cm ²					
Ambient temp	5~60°C					
Cushion	With rubber cushion pad					
Lubrication	Non-lubrication					
Port size Rc(PT)	1/8(M5)*	1/8	1/8	1/4	1/4	3/8

* () : For φ 20 × 30st

HOW TO ORDER

MCGA — 03 — 20 × 50

MODEL TUBE I.D. STROKE

Purpose/Type of bearing

Code	Purpose/Type of bearing
03	Stop/Slide bearing
13	Lift/Linear bush bearing*
53	Lift/Slide bearing

- Linear bush bearing type is not available as a stopper.

TABLE FOR STANDARD STROKE

series variety	bearing type	tube I.D.	stroke (mm)									
			30	50	75	100	200	300	400	500	600	700
MCGA -03	Slide bearing	φ 20										
		φ 32										
		φ 40										
		φ 50										
		φ 63										
		φ 80										
MCGA -13	Linear bush bearing	φ 20										
		φ 32										
		φ 40										
		φ 50										
		φ 63										
		φ 80										
MCGA -53	Slide bearing	φ 20										
		φ 32										
		φ 40										
		φ 50										
		φ 63										
		φ 80										

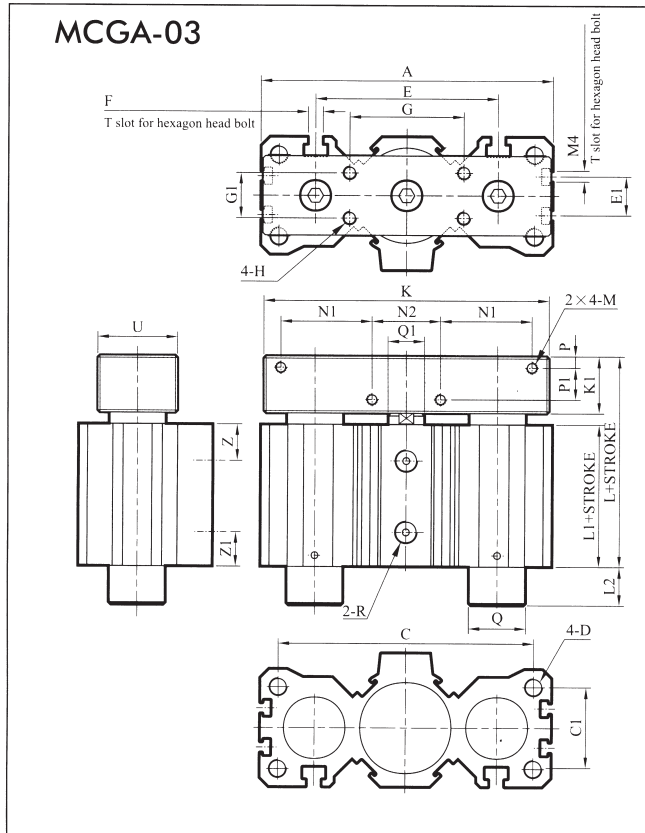
- Stroke out of specification is also available.
- Please consult us if stroke exceed 100mm.

TWIN-GUIDE CYLINDER

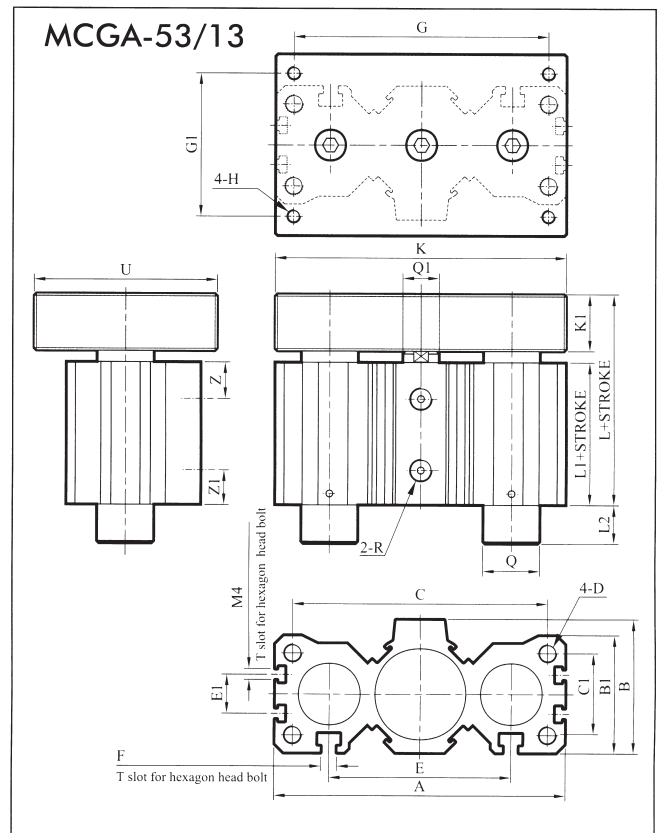
MCGA SERIES

DIMENSIONS

STOP TYPE



LIFE TYPE



MCGA-03

CODE TUBE I.D.	A	B	B1	C	C1	D	E	E1	F	H	K1	L	L1	M	N1	N2	P	P1	Q1	R	Z	Z1	G	G1	U	K	Q
20	75	34	32	63	20	M5×0.8×15dp	45	-	M4	M5×0.8×10dp	15	54	36	M4×0.7×8dp	22.5	20	4	6	φ10	PT 1/8[M5]	11	10	32	16	25	75	φ12
32	106	51.5	45	90	30	M8×1.25×20dp	63	-	M6	M6×1.0×12dp	20	66.5	41.5	M5×0.8×10dp	32	25	5	9	φ16	PT 1/8	12	12	40	18	30	100	φ20
40	128	59	52	112	36	M8×1.25×20dp	80	-	M6	M6×1.0×12dp	25	81	51	M5×0.8×10dp	40	30	5	14	φ16	PT 1/8	16	16.5	50	20	35	125	φ25
50	150	69	62	132	45	M10×1.5×25dp	100	20	M8	M8×1.25×16dp	30	87	52	M6×1.0×12dp	37.5	50	6	16	φ20	PT 1/4	16	17.5	63	25	40	140	φ30
63	180	87	78	156	53	M12×1.75×30dp	118	25	M10	M10×1.5×20dp	35	100	60	M8×1.25×16dp	47.5	60	9	16	φ20	PT 1/4	17.5	21	80	40	60	175	φ35
80	243	110	100	212	71	M16×2.0×40dp	160	30	M12	M10×1.5×20dp	40	110.5	62.5	M10×1.5×20dp	60	80	10	18	φ25	PT 3/8	22	19.5	106	56	75	224	φ45

□ : For φ20×30st

L2 Dimensions List

MCGA-53/13

CODE TUBE I.D.	G	G1	U	K	Q
20	63	32	45	75	φ12(φ8)
32	90	50	70	106	φ20(φ13)
40	112	63	80	128	φ25(φ16)
50	132	71	100	150	φ30(φ20)
63	150	85	110	175	φ35(φ25)
80	212	125	150	236	φ45(φ35)

() : For MCGA-13 type

MCGA-03/53

TUBE I.D.	Stroke (mm)			
	30	50	75	100
20	0	17	17	17
32	0	18.5	18.5	18.5
40	0	0	22	22
50	0	0	18	18
63	20	20	20	20
80	0	0	38.5	38.5

MCGA-13

TUBE I.D.	Stroke (mm)			
	30	50	75	100
20	18	18	18	18
32	29.5	29.5	29.5	29.5
40	30	30	30	30
50	39	39	39	39
63	6	6	6	6
80	16	16	16	16

AIR CYLINDER

ISO-VDMA STANDARD CYLINDERS

MCQV SERIES

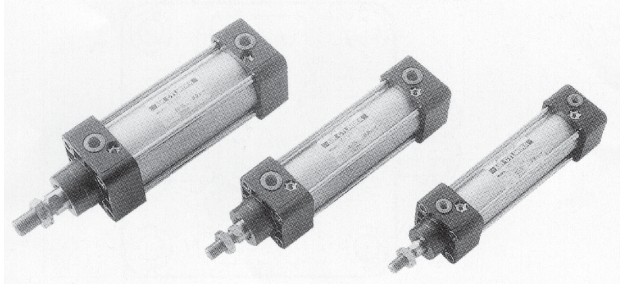


TABLE FOR STANDARD STROKE

tube I.D.	stroke (mm)
φ 32,40	50,75,100,125,150,175,200,250,300,350,400,450,500
φ 50,63	↑ 600
φ 80,100,160	↑ 600,700

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

FEATURES:

■ NON-LUBRICATION:

Designs of oil-filled alloy, special housing and bushing provide the needed self-lubrication of piston rod.

■ HIGH QUALITY-LONG SERVICE LIFE:

Hard anodized aluminum cylinder tubes resist corrosion and abrasion.

■ ISO-VDMA STANDARD SPECIFICATION:

Conformance to ISO-6431 & VDMA-24562 specification.
Unified design, most parts of each type are interchangeable among each other.

■ CYLINDER MOUNTINGS:

Available with a comprehensive selection of mountings for fixed or flexible installation.

■ Port thread PT. NPT. are also available.

MODEL	MCQV
Tube I.D. (mm)	32,40,50,63,80,100,160
Media	Air
Operating pressure	0.5-9kgf/cm ²
Proof pressure	15kgf/cm ²
Ambient temperature	5~60°C

HOW TO ORDER

MCQV — 11 — 40 — 100(M) — FAC

MODEL

TUBE I.D.

M:MAGNET

MOUNTING TYPE

1:SINGLE ROD
2:DOUBLE ROD

STROKE

STYLE:

CODE	SYMBOL	DESCRIPTION
1 1		Double acting/Male thread
2 7		Dual rod/Adjustable/Male thread (Please mark "adjustable distance(mm)" at order list)
2 1		Dual rod/Male thread

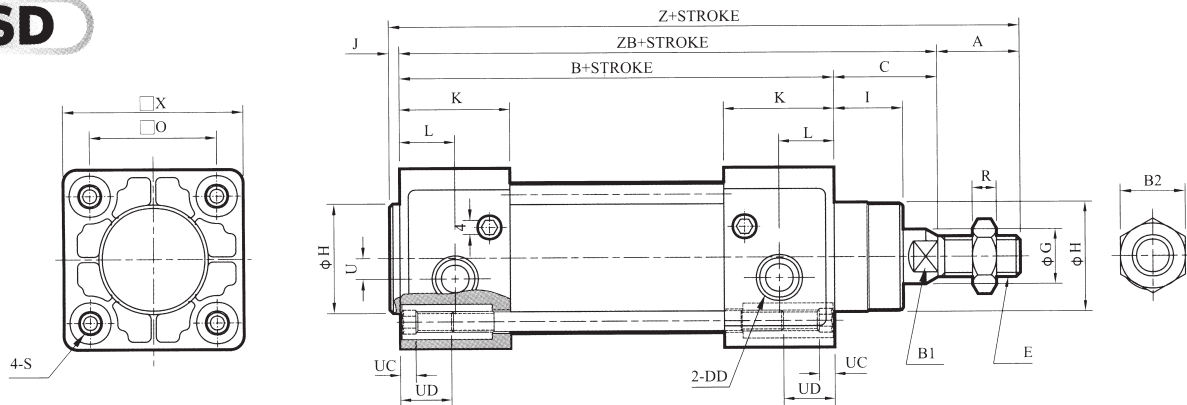
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	FBC
	CA
	CB
	CDB (+CB)
	TC
	TA
	TB

AIR CYLINDER

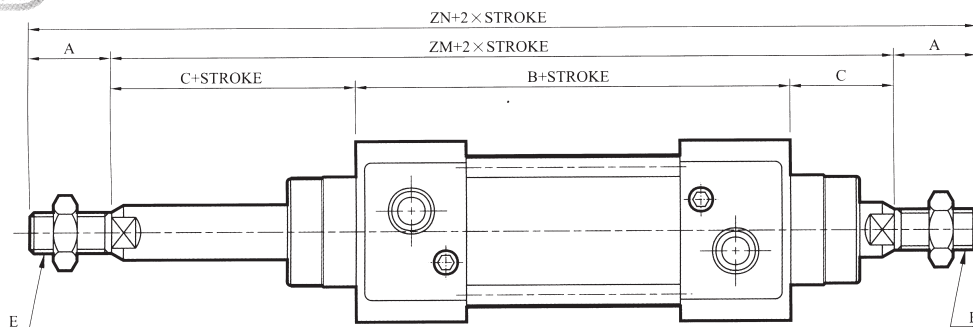
ISO-VDMA STANDARD CYLINDERS

MCQV SERIES

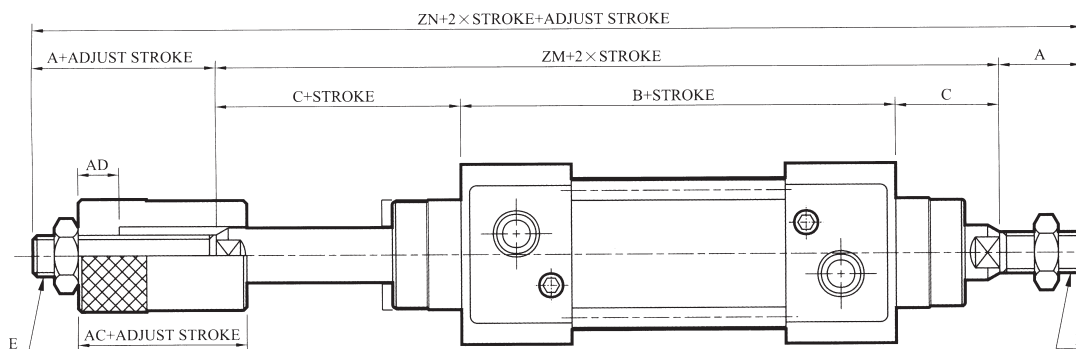
SD



SDW



SDJ

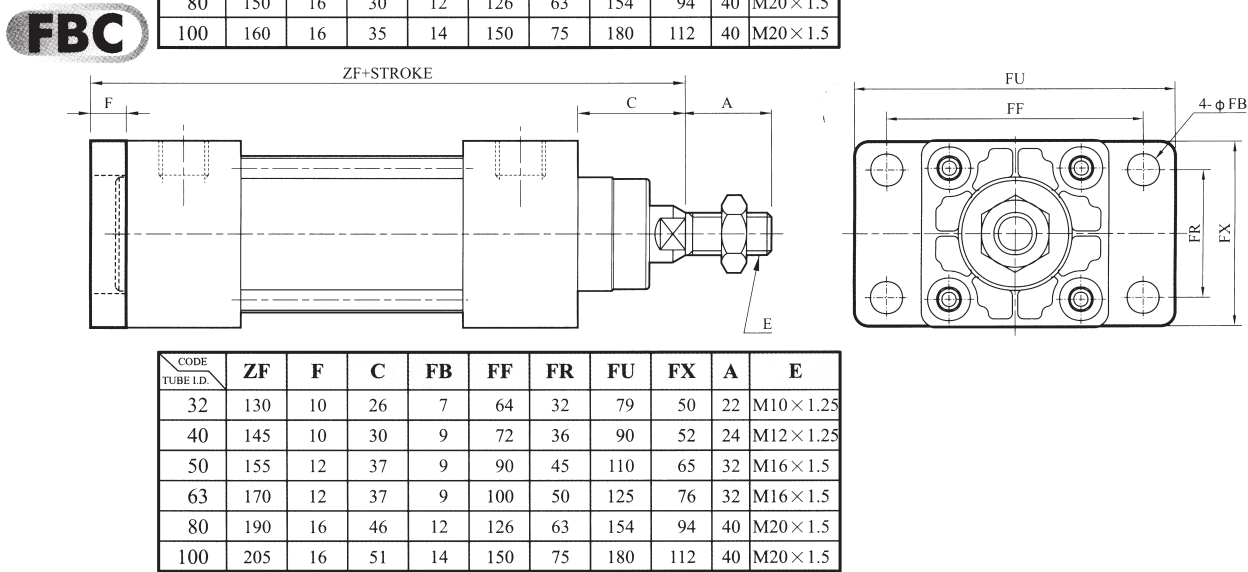
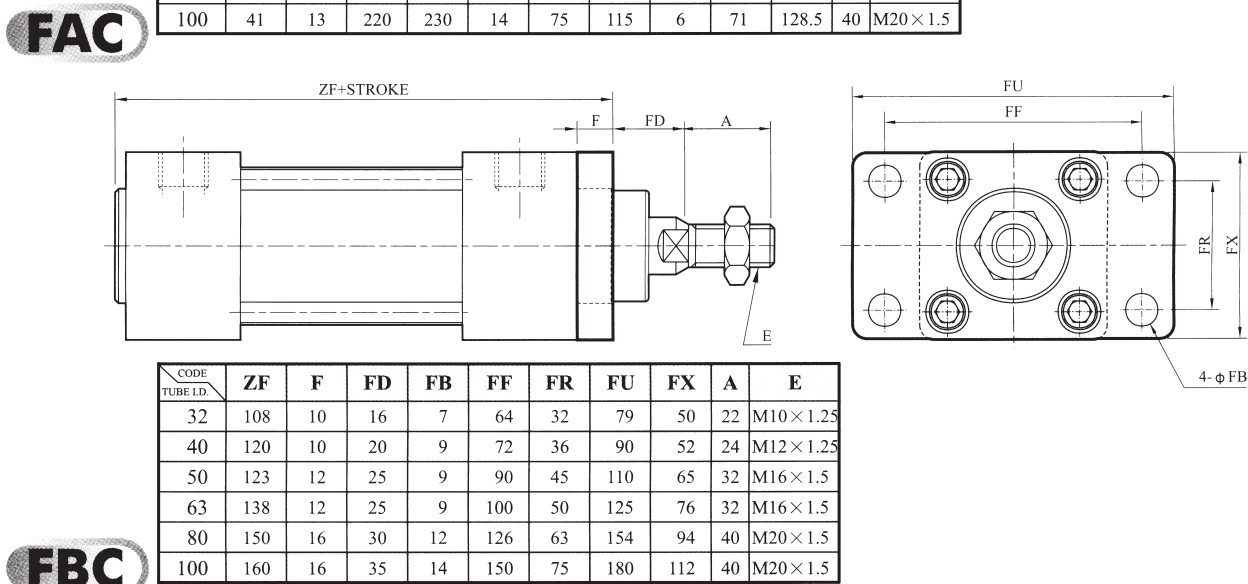
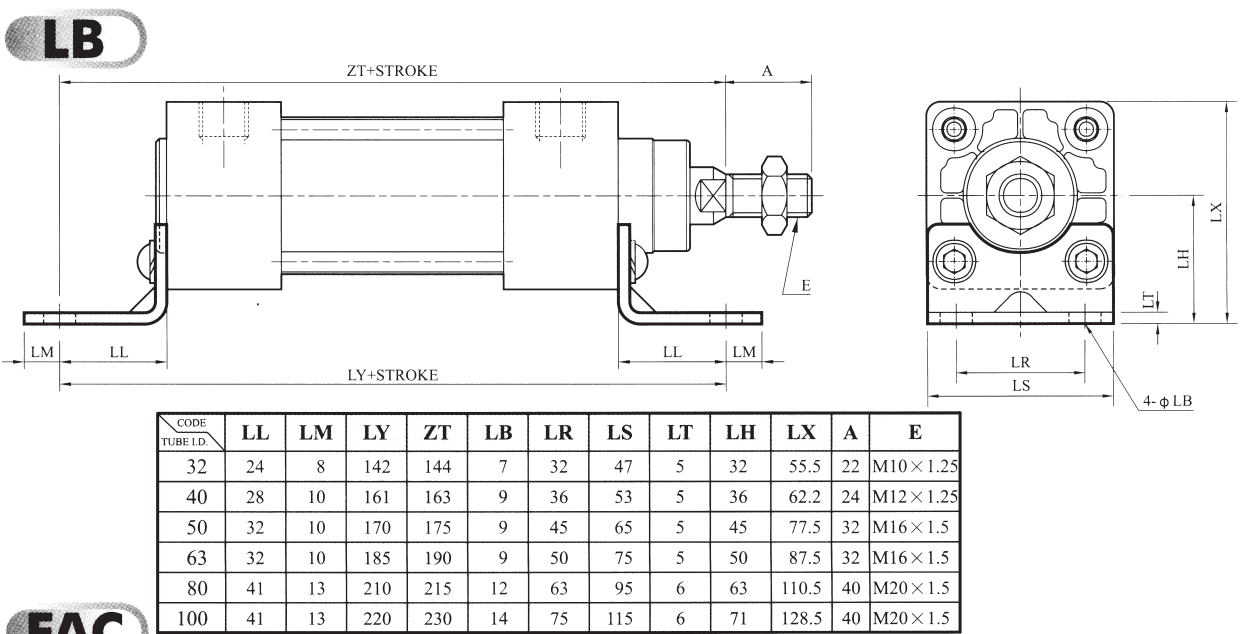


CODE TUBE ID	A	C	DD	E	G	H	I	J	K	L	U	O	R	S	X	B	B1	B2	UC	UD	ZB	Z	ZM	ZN	AC	AD
32	22	26	G 1/8	M10×1.25	12	30	16	4	26	13	4	32.5	6	M6×1.0	47	94	10	17	4	12	120	146	146	190	22	10
40	24	30	G 1/4	M12×1.25	16	35	20	4	30	15	4	38	7	M6×1.0	53	105	14	19	4	12	135	163	165	213	24	12
50	32	37	G 1/4	M16×1.5	20	40	25	4	30	15	4	46.5	8	M8×1.25	65	106	17	24	4	16	143	179	180	244	30	15
63	32	37	G 3/8	M16×1.5	20	45	25	4	32	16	7	56.5	8	M8×1.25	75	121	17	24	4	16	158	194	195	259	30	15
80	40	46	G 3/8	M20×1.5	25	45	32	6	38	19	7	72	12	M10×1.5	95	128	22	27	4	18	174	220	220	300	35	20
100	40	51	G 1/2	M20×1.5	25	55	35	6	40	20	7	89	12	M10×1.5	115	138	22	30	4	18	189	235	240	320	35	20

AIR CYLINDER

ISO-VDMA STANDARD CYLINDERS

MCQV SERIES

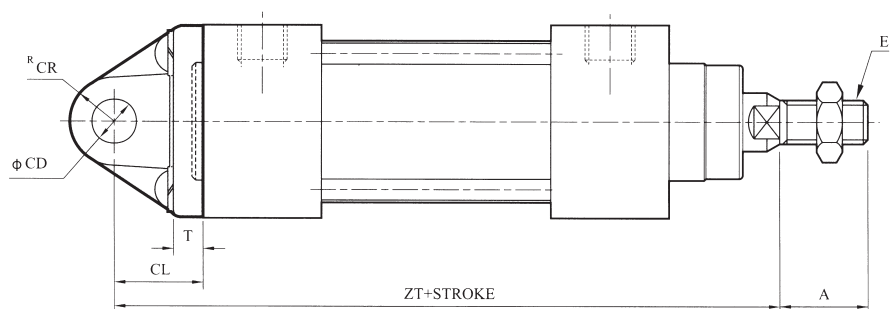
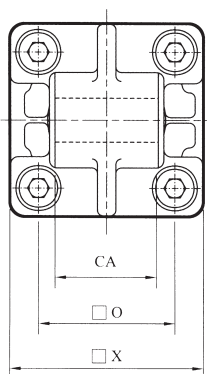


AIR CYLINDER

ISO-VDMA STANDARD CYLINDERS

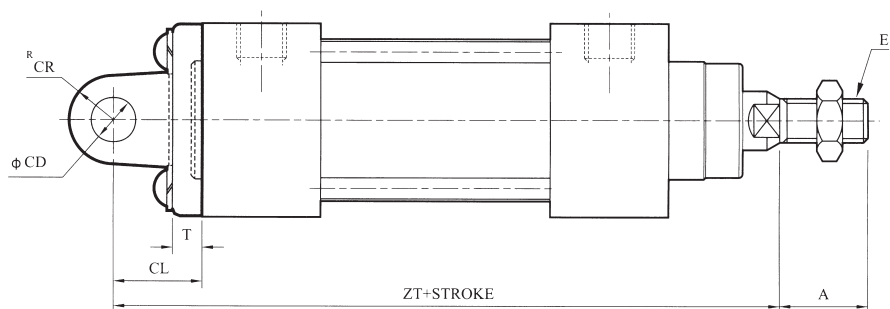
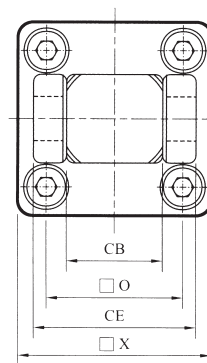
MCQV SERIES

CA



CODE TUBE I.D.	ZT	O	X	CA	CD	CL	CR	T	A	E
32	142	32.5	47	26 ^{-0.1} _{-0.3}	10 ^{H9}	22	10.5	10	22	M10×1.25
40	160	38	53	28 ^{-0.1} _{-0.3}	12 ^{H9}	25	12	10	24	M12×1.25
50	170	46.5	65	32 ^{-0.1} _{-0.3}	12 ^{H9}	27	12	12	32	M16×1.5
63	190	56.5	75	40 ^{-0.1} _{-0.3}	16 ^{H9}	32	18	12	32	M16×1.5
80	210	72	95	50 ^{-0.1} _{-0.3}	16 ^{H9}	36	17	16	40	M20×1.5
100	230	89	115	60 ^{-0.1} _{-0.3}	20 ^{H9}	41	21	16	40	M20×1.5

CB



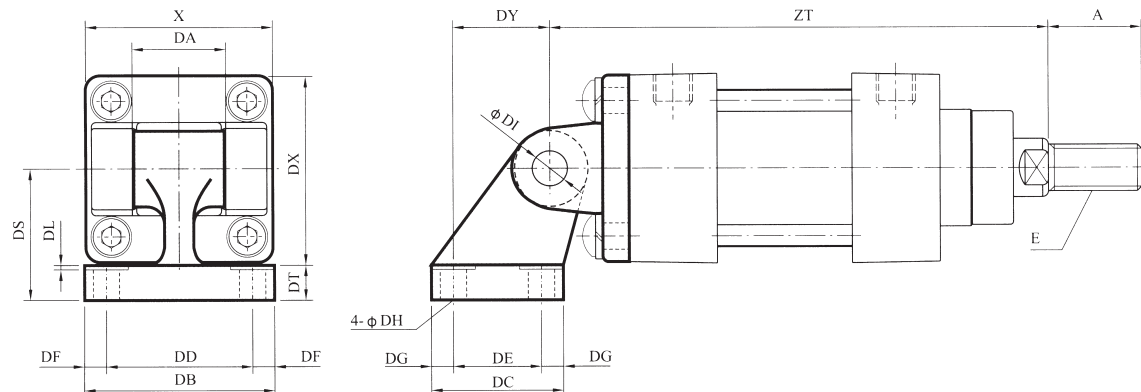
CODE TUBE I.D.	ZT	CE	O	X	CB	CD	CL	CR	T	A	E
32	142	45	32.5	47	26 ^{-0.3} _{-0.1}	10 ^{H9}	22	10.5	10	22	M10×1.25
40	160	52	38	53	28 ^{+0.3} _{+0.1}	12 ^{H9}	25	12	10	24	M12×1.25
50	170	60	46.5	65	32 ^{-0.3} _{-0.1}	12 ^{H9}	27	12	12	32	M16×1.5
63	190	70	56.5	75	40 ^{+0.3} _{+0.1}	16 ^{H9}	32	18	12	32	M16×1.5
80	210	90	72	95	50 ^{-0.3} _{-0.1}	16 ^{H9}	36	17	16	40	M20×1.5
100	230	110	89	115	60 ^{+0.3} _{+0.1}	20 ^{H9}	41	21	16	40	M20×1.5

AIR CYLINDER

ISO-VDMA STANDARD CYLINDERS

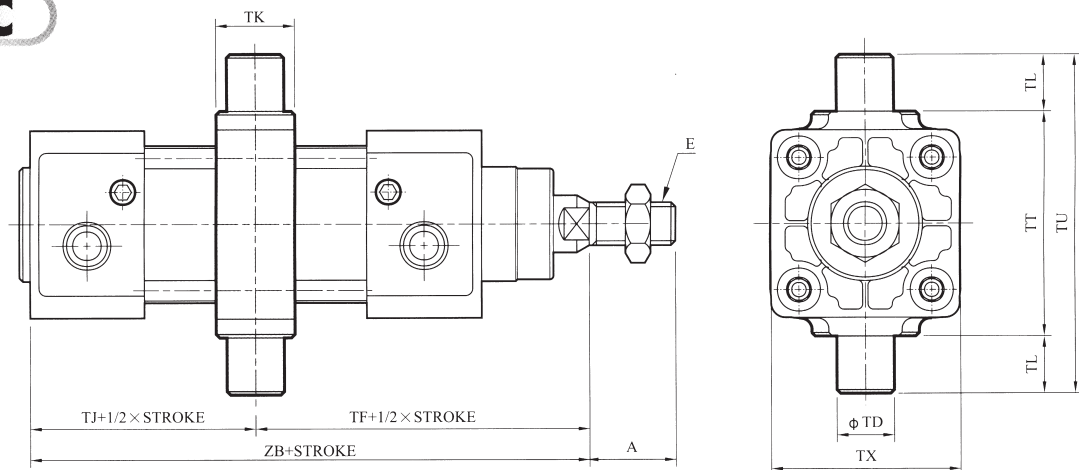
MCQV SERIES

CDB (+CB)



CODE TUBE I.D.	A	X	E	DA	DB	DC	DD	DE	DF	DG	DH	DI	DL	DS	DT	DX	DY	ZT
32	22	47	M10×1.25	26	50	30	38	18	6	6	6.6	10	1.5	32	8	47.5	21	142
40	24	53	M12×1.25	28	53	34	41	22	6	6	6.6	12	1.5	36	10	52.5	24	160
50	32	65	M16×1.5	32	65	45	50	30	7.5	7.5	9	12	1.5	45	12	65.5	33	170
63	32	75	M16×1.5	40	67	50	52	35	7.5	7.5	9	16	1.5	50	12	75.5	37	190
80	40	95	M20×1.5	50	86	60	66	40	10	10	11	16	2.5	63	14	96.5	47	210
100	40	115	M20×1.5	60	96	70	76	50	10	10	11	20	2.5	71	15	113.5	55	230

TC



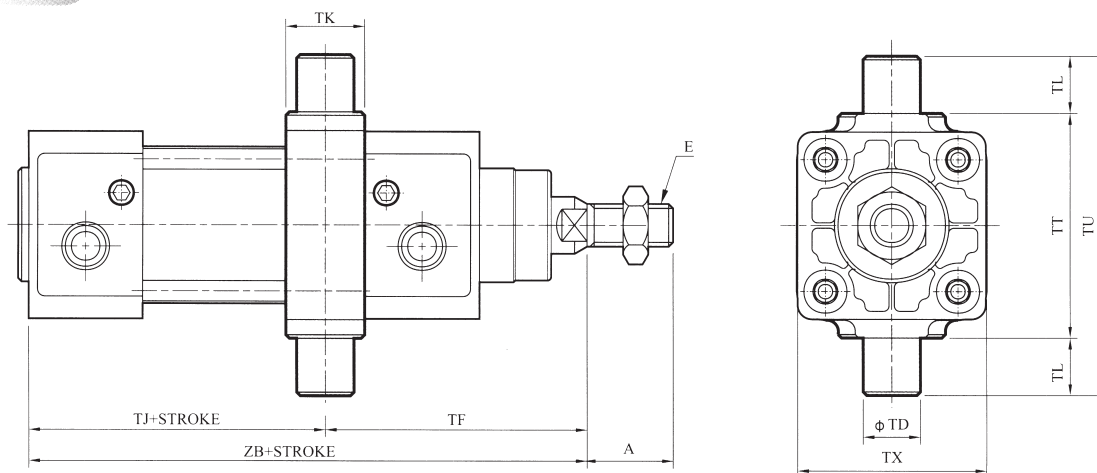
CODE TUBE I.D.	TF	TJ	ZB	TK	TD	TX	TT	TL	TU	A	E
32	73	47	120	22	12 ^{cs}	47	50	12	74	22	M10×1.25
40	82.5	52.5	135	22	16 ^{cs}	53	63	16	95	24	M12×1.25
50	90	53	143	22	16 ^{cs}	66	75	16	107	32	M16×1.5
63	97.5	60.5	158	28	20 ^{cs}	78	90	20	130	32	M16×1.5
80	110	64	174	34	20 ^{cs}	95	110	20	150	40	M20×1.5
100	120	69	189	40	25 ^{cs}	114	132	25	182	40	M20×1.5

AIR CYLINDER

ISO-VDMA STANDARD CYLINDERS

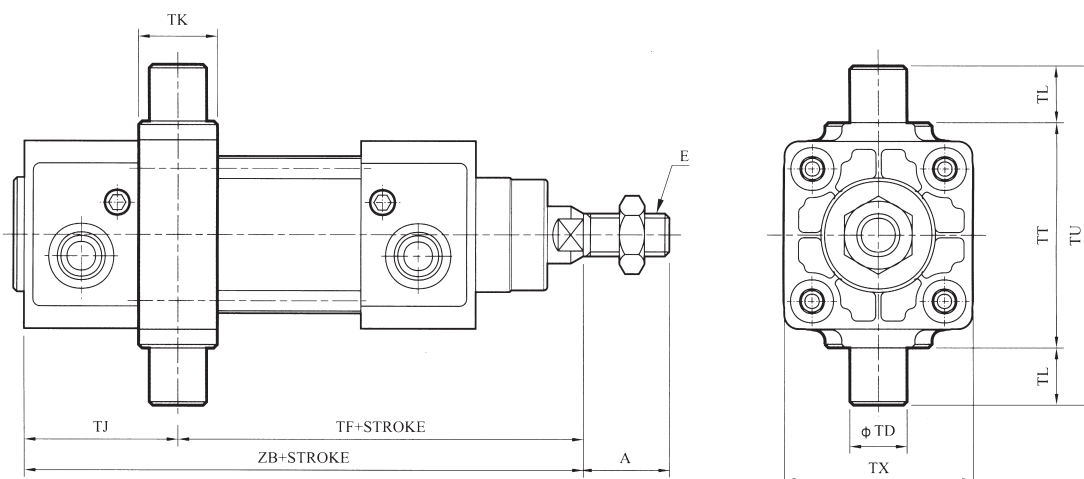
MCQV SERIES

TA



CODE TUBE I.D.	TF	TJ	ZB	TK	TD	TX	TT	TL	TU	A	E
32	64	56	120	22	12 ^{es}	47	50	12	74	22	M10×1.25
40	72	63	135	22	16 ^{es}	53	63	16	95	24	M12×1.25
50	79	64	143	22	16 ^{es}	66	75	16	107	32	M16×1.5
63	84	74	158	28	20 ^{es}	78	90	20	130	32	M16×1.5
80	102	72	174	34	20 ^{es}	95	110	20	150	40	M20×1.5
100	112	77	189	40	25 ^{es}	114	132	25	182	40	M20×1.5

TB



CODE TUBE I.D.	TF	TJ	ZB	TK	TD	TX	TT	TL	TU	A	E
32	82	38	120	22	12 ^{es}	47	50	12	74	22	M10×1.25
40	93	42	135	22	16 ^{es}	53	63	16	95	24	M12×1.25
50	101	42	143	22	16 ^{es}	66	75	16	107	32	M16×1.5
63	111	42	158	28	20 ^{es}	78	90	20	130	32	M16×1.5
80	118	56	174	34	20 ^{es}	95	110	20	150	40	M20×1.5
100	128	61	189	40	25 ^{es}	114	132	25	182	40	M20×1.5

AIR CYLINDER

ISO-VDMA STANDARD PROFILE CYLINDERS

MCQI SERIES



FEATURES:

■ NON-LUBRICATION:

Designs of oil-filled alloy, special housing and bushing provide the needed self-lubrication of piston rod.

■ HIGH QUALITY-LONG SERVICE LIFE:

Hard anodized aluminum cylinder tubes resist corrosion and abrasion.

■ ISO-6431 VDMA STANDARD SPECIFICATION:

Conformance to ISO-6431 & VDMA-24562 specification.

Unified design, most parts of each type are interchangeable among each other.

■ CYLINDER MOUNTINGS:

Available with a comprehensive selection of mountings for fixed or flexible installation.

■ Port thread PT. NPT. are also available.

TABLE FOR STANDARD STROKE

tube I.D.	stroke (mm)
φ 32,40	50,75,100,125,150,175,200,250,300,350,400,450,500
φ 50,63	↑ 600
φ 80,100	↑ 600,700

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

MODEL	MCQI
Tube I.D. (mm)	32,40,50,63,80,100
Media	Air
Operating pressure	0.5-9.9kgf/cm ²
Proof pressure	15kgf/cm ²
Ambient temperature	5~60°C

HOW TO ORDER

MCQI — 11 — 40 — 100(M) — FAC

MODEL

TUBE I.D.

M:MAGNET

MOUNTING TYPE

1:SINGLE ROD
2:DOUBLE ROD

STROKE

STYLE:

CODE	SYMBOL	DESCRIPTION
1 1		Double acting/Male thread
2 7		Dual rod/Adjustable/Male thread (Please mark "adjustable distance(mm)" at order list)
2 1		Dual rod/Male thread

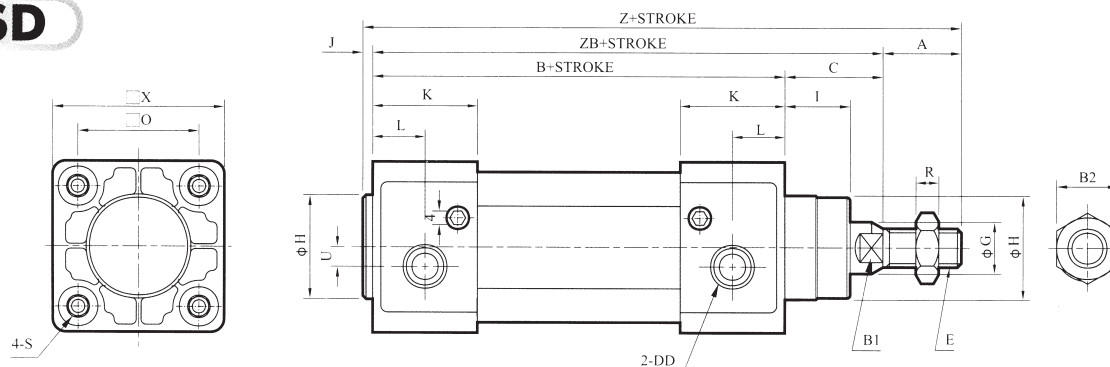
	LB
	FAC
	FBC
	CA
	CB
	CDB (+CB)
	TC
	TA
	TB

PROFILE AIR CYLINDER

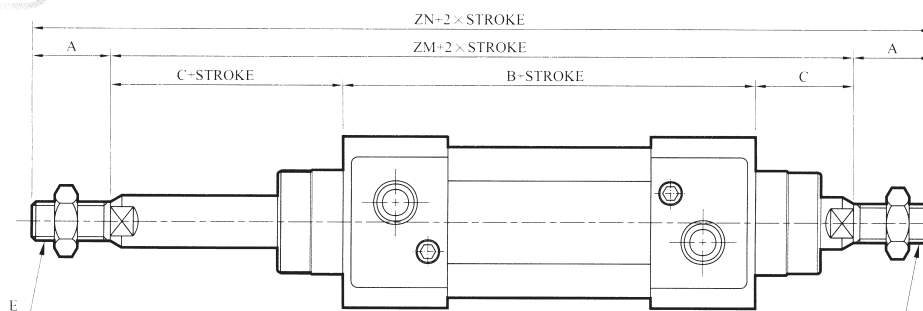
ISO-VDMA STANDARD PROFILE CYLINDERS

MCQI SERIES

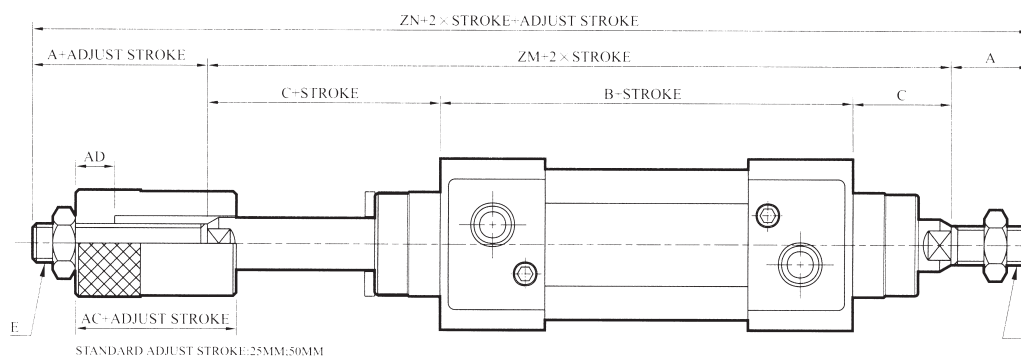
SD



SDW



SDJ



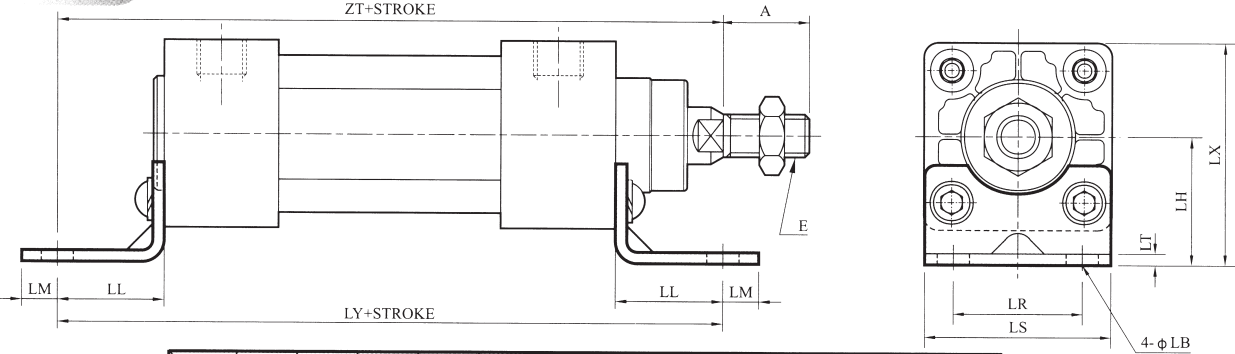
CODE TUBE I.D.	A	C	DD	E	G	H	I	J	K	L	U	O	R	S	X	B	B1	B2	ZB	Z	ZM	ZN	AC	AD
32	22	26	G 1/8	M10×1.25	12	30	16	4	26	13	4	32.5	6	M6×1.0	47	94	10	17	120	146	146	190	22	10
40	24	30	G 1/4	M12×1.25	16	35	20	4	30	15	4	38	7	M6×1.0	53	105	14	19	135	163	165	213	24	12
50	32	37	G 1/4	M16×1.5	20	40	25	4	30	15	4	46.5	8	M8×1.25	65	106	17	24	143	179	180	244	30	15
63	32	37	G 3/8	M16×1.5	20	45	25	4	32	16	7	56.5	8	M8×1.25	75	121	17	24	158	194	195	259	30	15
80	40	46	G 3/8	M20×1.5	25	45	32	6	38	19	7	72	12	M10×1.5	95	128	22	27	174	220	220	300	35	20
100	40	51	G 1/2	M20×1.5	25	55	35	6	40	20	7	89	12	M10×1.5	115	138	22	27	189	235	240	320	35	20

PROFILE AIR CYLINDER

ISO-VDMA STANDARD PROFILE CYLINDERS

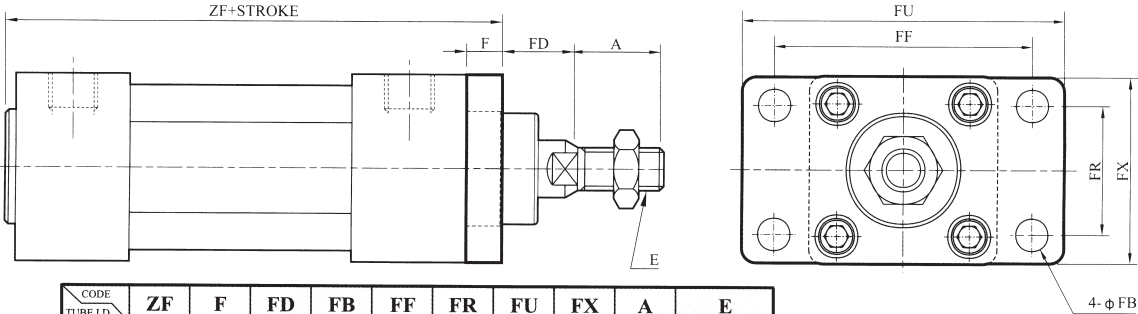
MCQI

LB



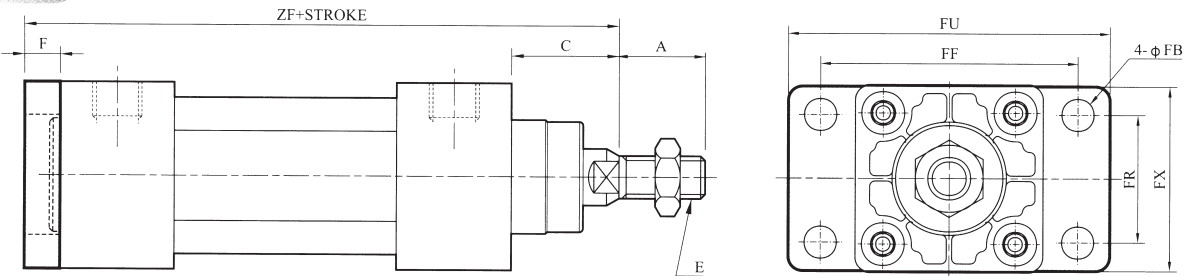
CODE TUBE I.D.	LL	LM	LY	ZT	LB	LR	LS	LT	LH	LX	A	E
32	24	8	142	144	7	32	47	5	32	55.5	22	M10×1.25
40	28	10	161	163	9	36	53	5	36	62.2	24	M12×1.25
50	32	10	170	175	9	45	65	5	45	77.5	32	M16×1.5
63	32	10	185	190	9	50	75	5	50	87.5	32	M16×1.5
80	41	13	210	215	12	63	95	6	63	110.5	40	M20×1.5
100	41	13	220	230	14	75	115	6	71	128.5	40	M20×1.5

FAC



CODE TUBE I.D.	ZF	F	FD	FB	FF	FR	FU	FX	A	E
32	108	10	16	7	64	32	79	50	22	M10×1.25
40	120	10	20	9	72	36	90	55	24	M12×1.25
50	123	12	25	9	90	45	110	65	32	M16×1.5
63	138	12	25	9	100	50	120	75	32	M16×1.5
80	150	16	30	12	126	63	153	95	40	M20×1.5
100	160	16	35	14	150	75	178	115	40	M20×1.5

FBC

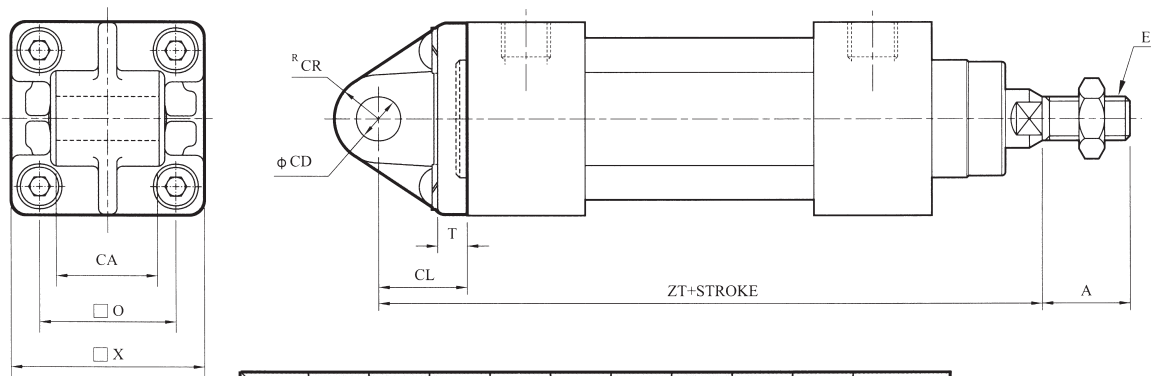


CODE TUBE I.D.	ZF	F	C	FB	FF	FR	FU	FX	A	E
32	130	10	26	7	64	32	79	50	22	M10×1.25
40	145	10	30	9	72	36	90	55	24	M12×1.25
50	155	12	37	9	90	45	110	65	32	M16×1.5
63	170	12	37	9	100	50	120	75	32	M16×1.5
80	190	16	46	12	126	63	153	95	40	M20×1.5
100	205	16	51	14	150	75	178	115	40	M20×1.5

PROFILE AIR CYLINDER

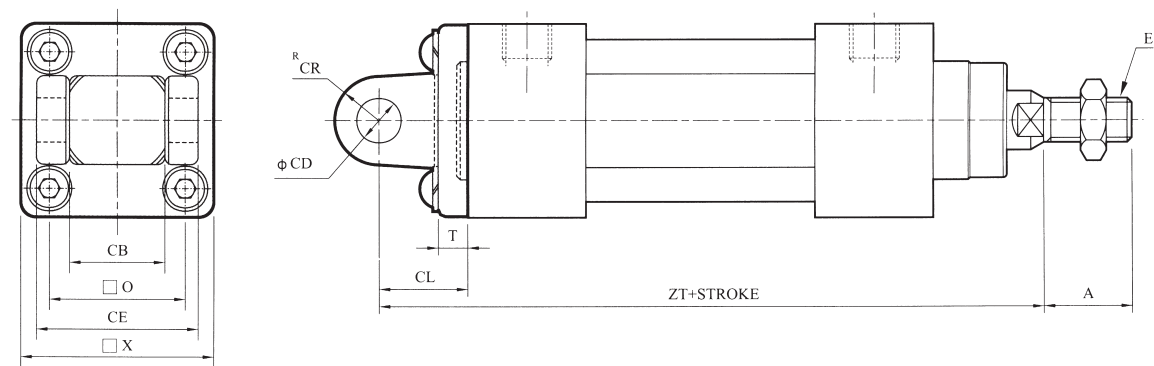
ISO-VDMA STANDARD PROFILE CYLINDERS MCQI SERIES

CA



CODE TUBE I.D.	ZT	O	X	CA	CD	CL	CR	T	A	E
32	142	32.5	47	26 ^{-0.1 -0.3}	10 ^{H9}	22	10.5	10	22	M10×1.25
40	160	38	53	28 ^{-0.1 -0.3}	12 ^{H9}	25	13	10	24	M12×1.25
50	170	46.5	65	32 ^{-0.1 -0.3}	12 ^{H9}	25	13	12	32	M16×1.5
63	190	56.5	75	40 ^{-0.1 -0.3}	16 ^{H9}	32	17	12	32	M16×1.5
80	210	72	95	50 ^{-0.1 -0.3}	16 ^{H9}	36	17	16	40	M20×1.5
100	230	89	115	60 ^{-0.1 -0.3}	20 ^{H9}	41	21	16	40	M20×1.5

CB



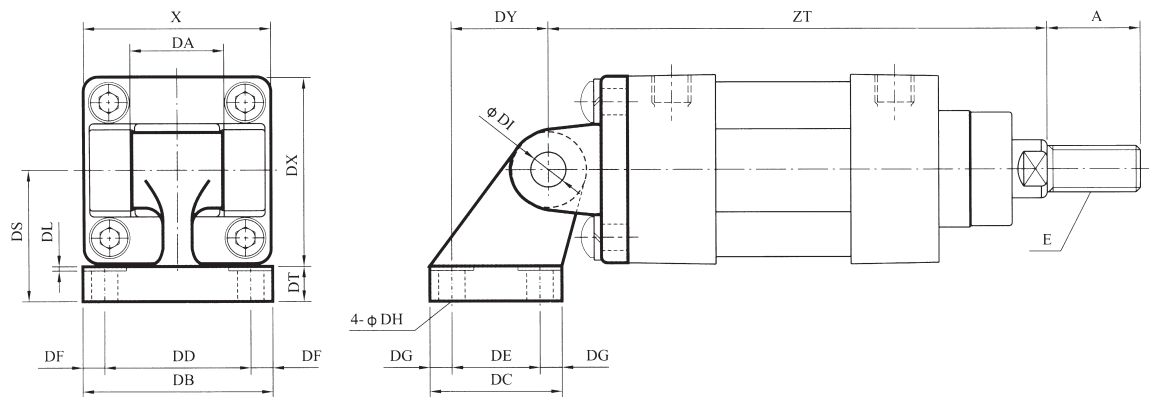
CODE TUBE I.D.	ZT	CE	O	X	CB	CD	CL	CR	T	A	E
32	142	45	32.5	47	26 ^{+0.3 +0.1}	10 ^{H9}	22	10.5	10	22	M10×1.25
40	160	52	38	53	28 ^{+0.3 +0.1}	12 ^{H9}	25	13	10	24	M12×1.25
50	170	60	46.5	65	32 ^{+0.3 +0.1}	12 ^{H9}	27	13	12	32	M16×1.5
63	190	70	56.5	75	40 ^{+0.3 +0.1}	16 ^{H9}	32	17	12	32	M16×1.5
80	210	90	72	95	50 ^{+0.3 +0.1}	16 ^{H9}	36	17	16	40	M20×1.5
100	230	110	89	115	60 ^{+0.3 +0.1}	20 ^{H9}	41	21	16	40	M20×1.5

PROFILE AIR CYLINDER

ISO-VDMA STANDARD PROFILE CYLINDERS

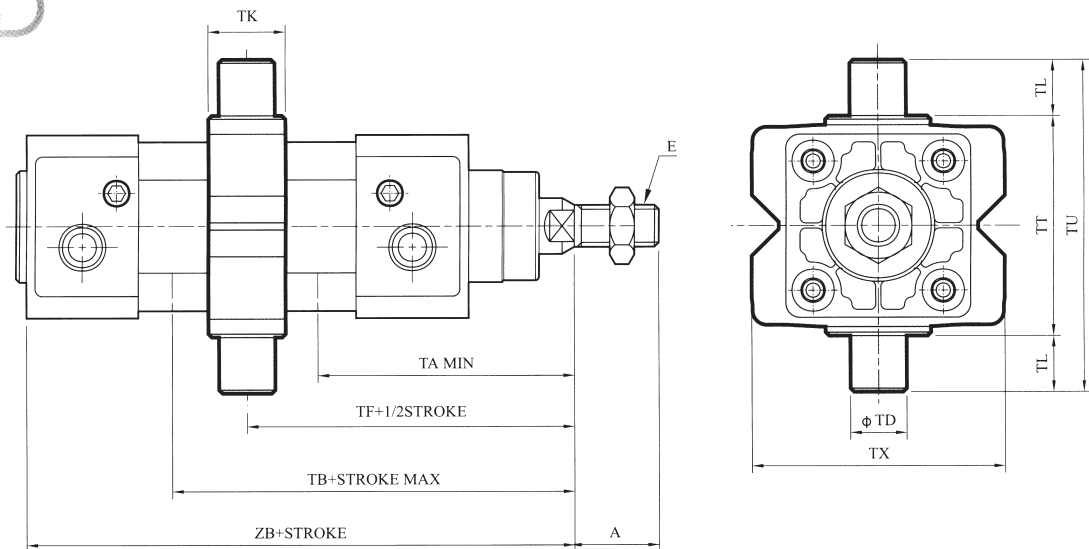
MCQI SERIES

CDB (+CB)



CODE TUBE I.D.	A	X	E	DA	DB	DC	DD	DE	DF	DG	DH	DI	DL	DS	DT	DX	DY	ZT
32	22	47	M10×1.25	26	50	30	38	18	6	6	6.6	10	1.5	32	8	47.5	21	142
40	24	53	M12×1.25	28	53	34	41	22	6	6	6.6	12	1.5	36	10	52.5	24	160
50	32	65	M16×1.5	32	65	45	50	30	7.5	7.5	9	12	1.5	45	12	65.5	33	170
63	32	75	M16×1.5	40	67	50	52	35	7.5	7.5	9	16	1.5	50	12	75.5	37	190
80	40	95	M20×1.5	50	86	60	66	40	10	10	11	16	2.5	63	14	96.5	47	210
100	40	115	M20×1.5	60	96	70	76	50	10	10	11	20	2.5	71	15	113.5	55	230

TC

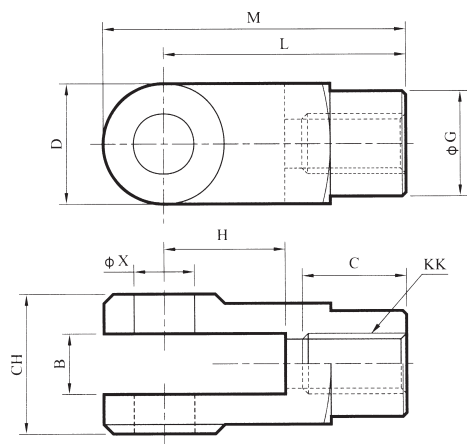


CODE TUBE I.D.	TF	TA	ZB	TK	TD	TX	TT	TL	TU	TB	A	E
32	73	73	120	22	12 ^{es}	58	50	12	74	73	22	M10×1.25
40	82.5	77	135	28	16 ^{es}	70	63	16	95	88	24	M12×1.25
50	90	86	143	32	16 ^{es}	85	75	16	107	94	32	M16×1.5
63	97.5	89.5	158	35	20 ^{es}	100	90	20	130	105.5	32	M16×1.5
80	110	107	174	40	20 ^{es}	120	110	20	150	113	40	M20×1.5
100	120	116.5	189	45	25 ^{es}	145	132	25	182	123.5	40	M20×1.5

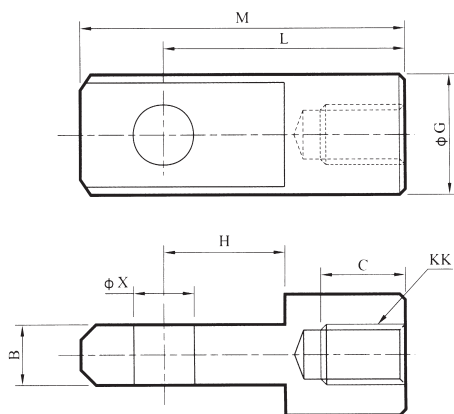
AIR CYLINDER ACCESSORY

FOR MCQV/MCQP SERIES

Y CONNECTOR

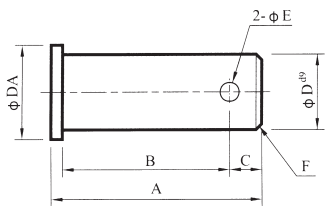


I CONNECTOR



CODE TUBE I.D.	L		H		G		B		X ^{H9}	KK		C		CH		M		D	
	Y	I	Y	I	Y	I	Y	I		Y	I	Y	I	Y	I	Y	I	Y	I
32	40	40	20	15	Φ18	Φ20	10 ^{-0.3 -0.1}	10 ^{-0.1 -0.2}	Φ10 ^{-0.04 0}	M10×1.25	20	17	19	/	/	52	52	19	/
40	48	48	24	18	Φ20	Φ24	12 ^{-0.3 +0.1}	12 ^{-0.1 -0.2}	Φ12 ^{+0.04 0}	M12×1.25	24	21	22	/	/	62	62	22	/
50	64	64	32	32	Φ28	Φ32	16 ^{-0.3 +0.1}	16 ^{-0.1 -0.3}	Φ16 ^{-0.04 0}	M16×1.5	28	23	32	/	/	89	86	32	/
63	64	64	32	32	Φ28	Φ32	16 ^{-0.3 +0.1}	16 ^{-0.1 -0.3}	Φ16 ^{-0.04 0}	M16×1.5	28	23	32	/	/	89	86	32	/
80	80	80	40	40	Φ36	Φ36	20 ^{+0.3 -0.1}	20 ^{-0.1 -0.3}	Φ20 ^{+0.05 0}	M20×1.5	33	30	45	/	/	100	108	40	/
100	80	80	40	40	Φ36	Φ36	20 ^{-0.3 -0.1}	20 ^{-0.1 -0.3}	Φ20 ^{+0.05 0}	M20×1.5	33	30	45	/	/	100	108	40	/

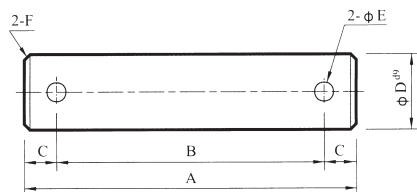
PIN FOR Y.I CONNECTOR



FOR Y.I CONNECTOR

CODE TUBE I.D.	A	B	C	D ^{d9}	E	F	DA	SPLIT PIN
32	30	25	3.5	Φ10 ^{-0.06 -0.09}	3.2	1	14	3.2×20L
40	37	30	5	Φ12 ^{-0.06 -0.09}	3.2	1	16	3.2×20L
50 63	47	37	7	Φ16 ^{-0.05 -0.09}	4	1	22	4×25L
80 100	62	50	8	Φ20 ^{-0.06 -0.11}	5	1.5	30	5×35L

PIN FOR CA.CB



FOR CA.CB

CODE TUBE I.D.	A	B	C	D ^{d9}	E	F	SPLIT PIN
32	69	55	7	Φ10 ^{-0.05 -0.09}	4	1.0	4×20L
40	76	62	7	Φ12 ^{-0.05 -0.09}	4	1.0	4×20L
50	84	70	7	Φ12 ^{-0.05 -0.09}	4	1.0	4×20L
63	94	80	7	Φ16 ^{-0.05 -0.09}	4	1.0	4×30L
80	117	100	8.5	Φ16 ^{-0.05 -0.09}	5	1.5	5×30L
100	137	120	8.5	Φ20 ^{-0.05 -0.09}	5	1.5	5×35L