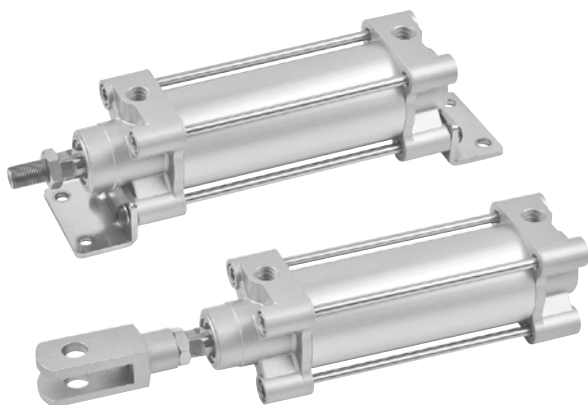




Features

■ Non lubrication

Special housing and bushing enable self lubrication of piston rod.

■ High quality long service life

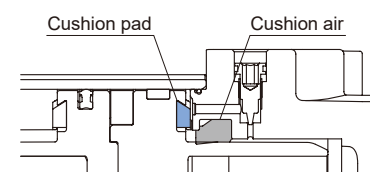
Hard anodised aluminium cylinder tubes offer high resistance to corrosion and low internal friction.

■ Automatic air cushioning

Pneumatic cushioning at both ends without adjusting.

■ Low noise level

Add cushion pad to reduce impact sound and vibration.



■ ISO 15552 standard specification

Conforms to ISO 15552 specification enabling worldwide interchangeability.

■ Cylinder mountings

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

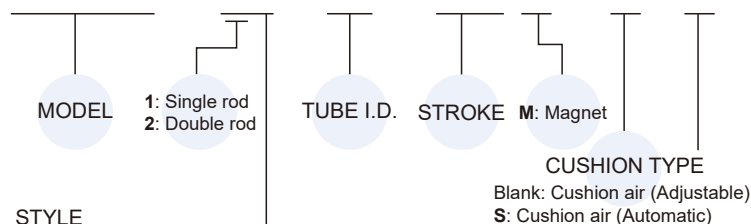
Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke(mm)
ø32,40	50,75,100,125,150,175,	1800
ø50,63	200,250,300,350,400,	2000
ø80,100	450,500,600,700,800	2500

* Please contact us if the stroke is out of specification.

Order example

MCQV3 — 11 — 63 — 100 M — S — T



STYLE

Code	Symbol	Description
1 1		Double acting / Male thread
2 1		Double rod / Male thread
2 7		Double rod / Adjustable male thread Please mark "adjustable stroke" at order list

TYPE

T: With magnet, TA/TB is assembled

* Tube, piston rod and tie rod are extended, and an extra piston is added.

Specification

Model	MCQV3		
Tube I.D. (mm)	32,40	50,63	80,100
Medium	Air		
Operating pressure range	0.05~1 MPa		
Proof pressure	1.5 MPa		
Ambient temperature	-5~+60°C (No freezing)		
Available speed range	50~500 mm/sec		
Sensor switch	RCA (Please refer to page 8-8)		
Sensor switch holder	HV1	HV2	HV3

* Order example for special specification, refer to page 0-7.

* Rc or NPT thread are also available, please contact us.

■ Accessories & Connector

	Accessories						Rod nut
Code	LB (Purchase 2 pcs)	CA	CB	CDB (Purchase CB+PIN)	FAC	FBC	NUT
Mounting Tube I.D.							
ø32	LB-Q2-32	CA-Q2-32	CB-Q2-32	CDB-Q2-32	FAC-Q2-32		NUT-M10x1.25x5Hx17B
ø40	LB-Q2-40	CA-Q2-40	CB-Q2-40	CDB-Q2-40	FAC-Q2-40		NUT-M12x1.25x6Hx19B
ø50	LB-Q2-50	CA-Q2-50	CB-Q2-50	CDB-Q2-50	FAC-Q2-50		NUT-M16x1.5x8Hx24B
ø63	LB-Q2-63	CA-Q2-63	CB-Q2-63	CDB-Q2-63	FAC-Q2-63		
ø80	LB-Q2-80	CA-Q2-80	CB-Q2-80	CDB-Q2-80	FAC-Q2-80		
ø100	LB-Q2-100	CA-Q2-100	CB-Q2-100	CDB-Q2-100	FAC-Q2-100		NUT-M20x1.5x10Hx30B

Accessories  Factory assembled and shipped (self-assembled is not recommended)					Connector		
Code	TA	TB	TC	SDS Mid section support (Stroke over 1000mm)	Y	I	YS (Y+Floating pin)
Mounting Tube I.D.							
ø32	TC-Q2-32			SDS-Q2-32	Y-Q2-32	I-Q2-32	YS-Q2-32
ø40	TC-Q2-40			SDS-Q2-40	Y-Q2-40	I-Q2-40	YS-Q2-40
ø50	TC-Q2-50			SDS-Q2-50	Y-Q2-50	I-Q2-50	YS-Q2-50
ø63	TC-Q2-63			SDS-Q2-63			
ø80	TC-Q2-80			SDS-Q2-80	Y-Q2-80	I-Q2-80	YS-Q2-80
ø100	TC-Q2-100			SDS-Q2-100			

Pin

Applicable	YS connector	Y&I connector	CA&CB accessories
Code	PIN-S	PIN-Y-P (with split pin)	PIN-CB-P (with split pin)
Fig Tube I.D.			
ø32	PIN-Q2-32-S	PIN-Q2-32-2-P	PIN-Q2-32-1-P
ø40	PIN-Q2-40-S	PIN-Q2-40-2-P	PIN-Q2-40-1-P
ø50	PIN-Q2-50-S	PIN-Q2-50-2-P	PIN-Q2-50-1-P
ø63			PIN-Q2-63-1-P
ø80			PIN-Q2-80-1-P
ø100	PIN-Q2-80-S	PIN-Q2-80-2-P	PIN-Q2-100-1-P

■ Order example of self-assembled

The tube I.D. $\varnothing 40$ of LB accessories, Y connector and pin.

No.	Order number	Qty
1	LB-Q2-40	2
2	Y-Q2-40	1
3	PIN-Q2-40-2-P	1

* To order accessories/
connectors/ pin separately,
please place orders separately
according to the order codes
in the above table.

■ Order example of factory assembled

⚠ Cylinders and accessories are distinguished by the symbol " + ".

MCQV3 – Standard model no. + TA

CYLINDER ACCESSORIES

MCQV3-11 Inside structure & Parts list

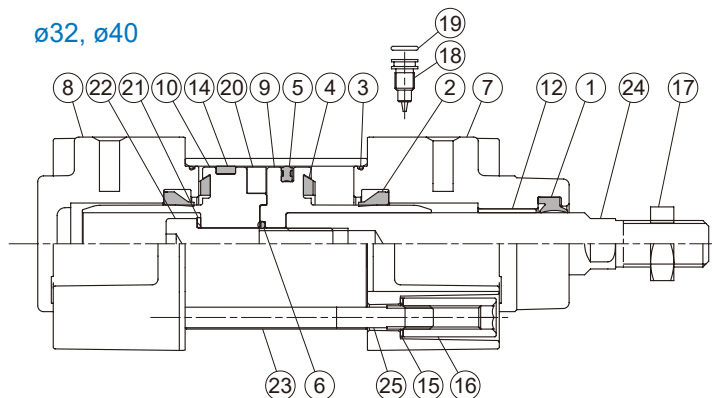
ISO 15552 **STANDARD CYLINDER**



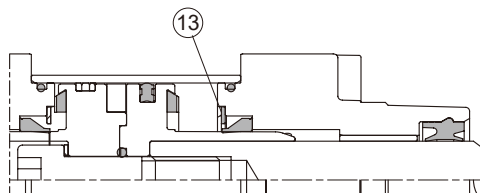
Single rod 11 type

Cushion air (Adjustable)

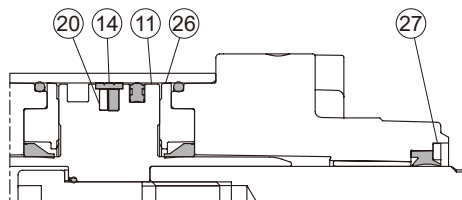
ø32, ø40



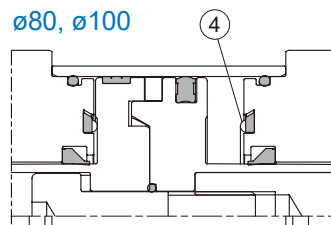
ø50



ø63



ø80, ø100



No.	Part name	Material	Q'ty	Component parts (inclusion)	Repair kits (inclusion)	Note
1	Rod packing	NBR	1	●	●	Repair kits ø50 not included
2	Cushion packing	NBR	2	●	●	
3	O-ring	NBR	2	●	●	
4	Cushion pad	NBR	2	●	●	
5	Piston packing	NBR	1	●	●	
6	O-ring	NBR	1	●	●	
7	Rod cover	Aluminum alloy	1	●		
8	Head cover	Aluminum alloy	1	●		
9	Piston #1	Aluminum alloy	1	●		
10	Piston #2	Aluminum alloy	1	●		
11	Piston	Aluminum alloy	1	●		Only for ø63
12	Bush	Bearing alloy	1	●		
13	Washer	Carbon steel	2	●		Only for ø50
14	Wear ring	Resin	1	●		
15	Washer	Aluminum alloy	8	●		
16	Tie rod nut	Carbon steel	8	●		
17	Piston rod nut	Carbon steel	1	●		
18	Needle valve	Copper alloy	2	●		
19	O-ring	NBR	2	●		
20	Magnet ring	Magnet material	1	◎		◎ Option
21	Washer	Aluminum alloy	1	●		
22	Hex bolt	Carbon steel	1	●		
23	Cylinder tube	Aluminum alloy	1			
24	Piston rod *1	Carbon steel	1			
25	Tie rod	Carbon steel	4			
26	Cushion seal holder	Aluminum alloy	2	●		Only for ø63
27	Washer	Carbon steel	1	●		Only for ø63

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

MCQV3-11-S Inside structure & Parts list

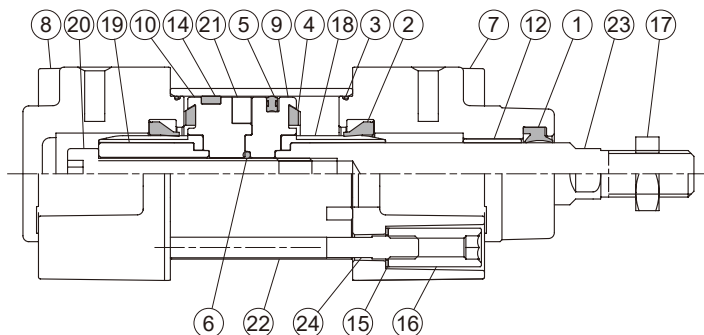
ISO 15552 **STANDARD CYLINDER**



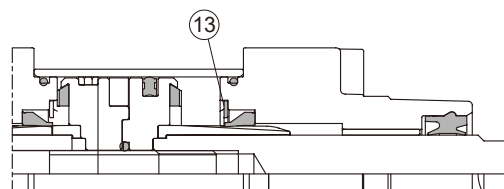
Single rod 11 type

Cushion air (Automatic)

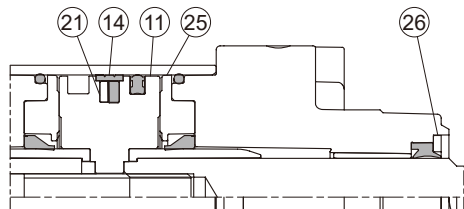
ø32, ø40



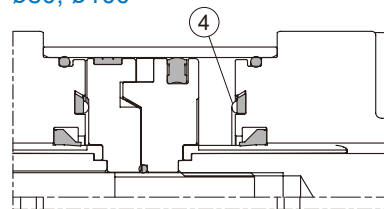
ø50



ø63



ø80, ø100



No.	Part name	Material	Q'ty	Component parts (inclusion)	Repair kits (inclusion)	Note
1	Rod packing	NBR	1	●	●	Repair kits ø50 not included
2	Cushion packing	NBR	2	●	●	
3	O-ring	NBR	2	●	●	
4	Cushion pad	NBR	2	●	●	
5	Piston packing	NBR	1	●	●	
6	O-ring	NBR	1	●	●	
7	Rod cover	Aluminum alloy	1	●		
8	Head cover	Aluminum alloy	1	●		
9	Piston #1	Aluminum alloy	1	●		
10	Piston #2	Aluminum alloy	1	●		
11	Piston	Aluminum alloy	1	●		Only for ø63
12	Bush	Bearing alloy	1	●		
13	Washer	Carbon steel	2	●		Only for ø50
14	Wear ring	Resin	1	●		
15	Washer	Aluminum alloy	8	●		
16	Tie rod nut	Carbon steel	8	●		
17	Piston rod nut	Carbon steel	1	●		
18	Shock absorber axis	Resin	2	●		
19	Piston nut	Aluminum alloy	1	●		
20	Hex bolt	Carbon steel	1	●		
21	Magnet ring	Magnet material	1	◎		◎ Option
22	Cylinder tube	Aluminum alloy	1			
23	Piston rod *1	Carbon steel	1			
24	Tie rod	Carbon steel	4			
25	Cushion seal holder	Aluminum alloy	2	●		Only for ø63
26	Washer	Carbon steel	1	●		Only for ø63

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

MCQV3-21/27 Inside structure & Parts list

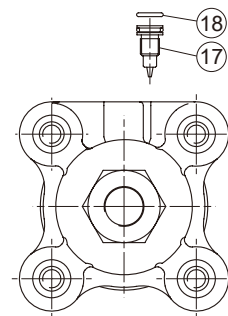
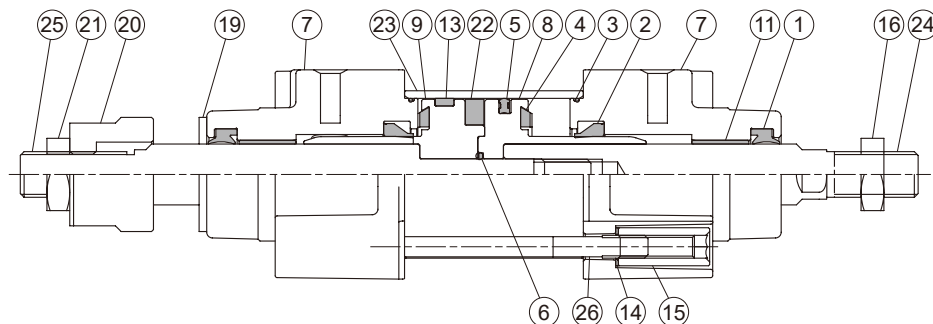
ISO 15552 **STANDARD CYLINDER**



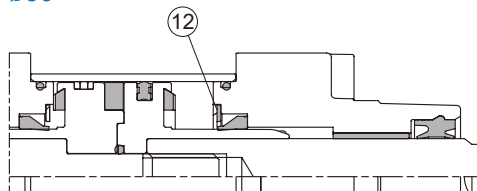
Double rod 21 / 27 type

Cushion air (Adjustable)

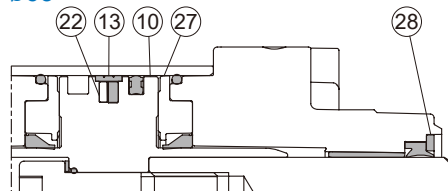
ø32, ø40



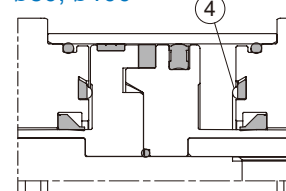
ø50



ø63



ø80, ø100



No.	Part name	Material	Q'y	Component parts (inclusion)		Repair kits (inclusion)	Note
				21 type	27 type		
1	Rod packing	NBR	2	●	●	●	Repair kits ø50 not included
2	Cushion packing	NBR	2	●	●	●	
3	O-ring	NBR	2	●	●	●	
4	Cushion pad	NBR	2	●	●	●	
5	Piston packing	NBR	1	●	●	●	
6	O-ring	NBR	1	●	●	●	
7	Rod cover	Aluminum alloy	2	●	●		
8	Piston #1	Aluminum alloy	1	●	●		
9	Piston #2	Aluminum alloy	1	●	●		
10	Piston	Aluminum alloy	1	●	●		Only for ø63
11	Bush	Bearing alloy	2	●	●		
12	Washer	Carbon steel	2	●	●		Only for ø50
13	Wear ring	Resin	1	●	●		
14	Washer	Carbon steel	8	●	●		
15	Tie rod nut	Carbon steel	8	●	●		
16	Piston rod nut	Carbon steel	1	●	●		
17	Needle valve	Copper alloy	2	●	●		
18	O-ring	NBR	2	●	●		
19	Gasket	PU	1		●		
20	Adjustable nut	Carbon steel	1		●		
21	Hex nut	Carbon steel	1		●		
22	Magnet ring	Magnet material	1	◎	◎		◎ Option
23	Cylinder tube	Aluminum alloy	1				
24	Piston rod #1 *1	Carbon steel	1				
25	Piston rod #2 *1	Carbon steel	1				
26	Tie rod	Carbon steel	4				
27	Cushion seal holder	Aluminum alloy	1	●	●		Only for ø63
28	Washer	Carbon steel	1	●	●		Only for ø63

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

MCQV3-21/27-S Inside structure & Parts list

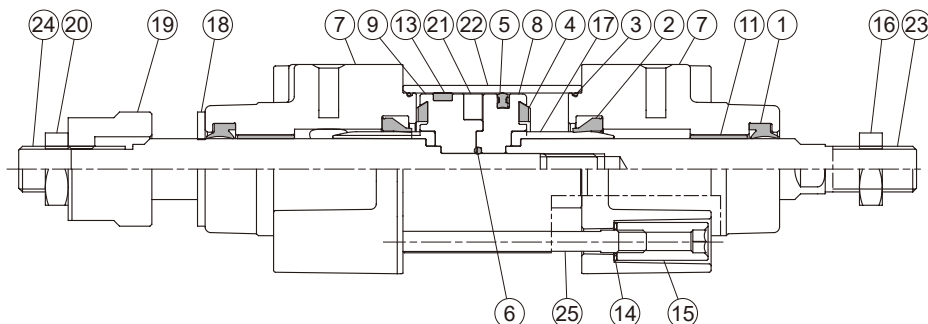
ISO 15552 **STANDARD CYLINDER**



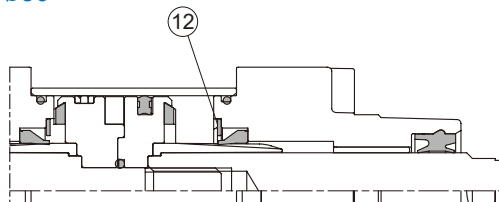
Double rod 21 / 27 type

Cushion air (Automatic)

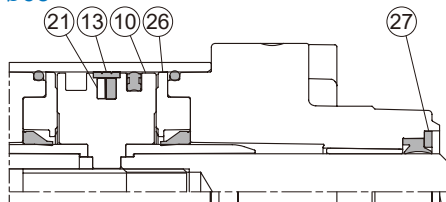
ø32, ø40



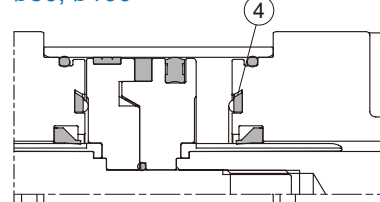
ø50



ø63



ø80, ø100

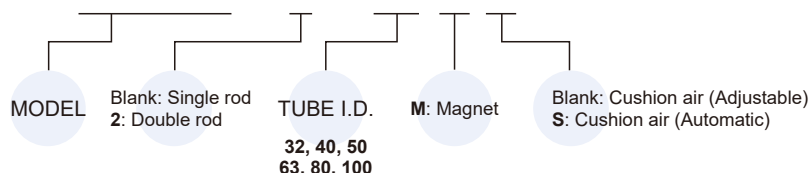


No.	Part name	Material	Q'y	Component parts (inclusion)		Repair kits (inclusion)	Note
				21 type	27 type		
1	Rod packing	NBR	2	●	●	●	Repair kits ø50 not included
2	Cushion packing	NBR	2	●	●	●	
3	O-ring	NBR	2	●	●	●	
4	Cushion pad	NBR	2	●	●	●	
5	Piston packing	NBR	1	●	●	●	
6	O-ring	NBR	1	●	●	●	
7	Rod cover	Aluminum alloy	2	●	●		
8	Piston #1	Aluminum alloy	1	●	●		
9	Piston #2	Aluminum alloy	1	●	●		
10	Piston	Aluminum alloy	1	●	●		Only for ø63
11	Bush	Bearing alloy	2	●	●		
12	Washer	Carbon steel	2	●	●		Only for ø50
13	Wear ring	Resin	1	●	●		
14	Washer	Carbon steel	8	●	●		
15	Tie rod nut	Carbon steel	8	●	●		
16	Piston rod nut	Carbon steel	1	●	●		
17	Shock absorber axis	Resin	2	●	●		
18	Gasket	PU	1		●		
19	Adjustable nut	Carbon steel	1		●		
20	Hex nut	Carbon steel	1		●		
21	Magnet ring	Magnet material	1	◎	◎		◎ Option
22	Cylinder tube	Aluminum alloy	1				
23	Piston rod #1 *1	Carbon steel	1				
24	Piston rod #2 *1	Carbon steel	1				
25	Tie rod	Carbon steel	4				
26	Cushion seal holder	Aluminum alloy	1	●	●		Only for ø63
27	Washer	Carbon steel	1	●	●		Only for ø63

*1. When customized material is bearing steel, only two-side across flat (wrench flat) is available.

Order example of component parts

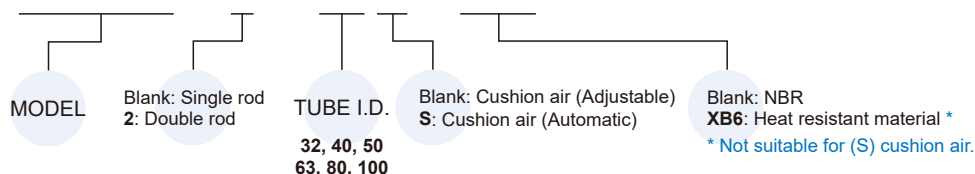
CP — MCQV3 — 2 — 63 M S



* Order example for Rc or NPT thread please consult us.

Order example of repair kits

PS — MCQV3 — 2 — 63 S — XB6



Cylinder & accessories weight

Cylinder weight

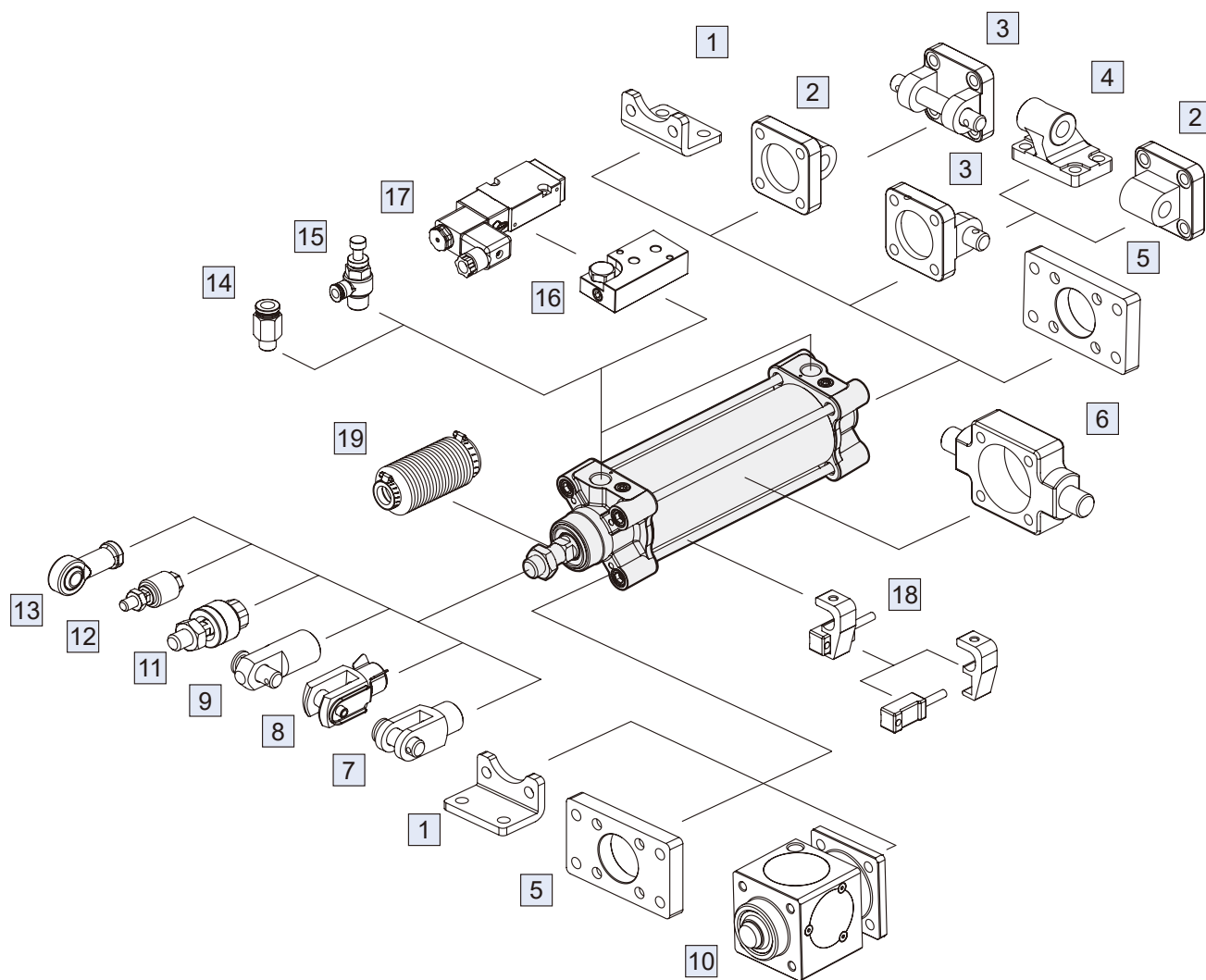
Unit: kg

Model	Basic weight MCQV3-11	Basic weight (magnet) MCQV3-11	Basic weight MCQV3-11-S	Basic weight (magnet) MCQV3-11-S	Stroke 25 mm MCQV3-11
Tube I.D.					
ø32	0.510	0.516	0.420	0.456	0.50
ø40	0.717	0.729	0.667	0.709	0.068
ø50	1.114	1.131	1.031	1.118	0.108
ø63	1.689	1.709	1.603	1.693	0.125
ø80	2.464	2.491	2.355	2.472	0.187
ø100	3.682	3.717	3.523	3.648	0.210

Accessories weight

Unit: kg

Model	LB	CA	CB	CDB	FAC/FBC	TA/TB/TC	SDS	Y	I	Pin		YS
										Y / I	CA / CB	
Tube I.D.												
ø32	0.163	0.213	0.185	0.170	0.235	0.208	0.157	0.067	0.082	0.016	0.036	0.018
ø40	0.211	0.253	0.211	0.230	0.265	0.282	0.179	0.115	0.141	0.029	0.057	0.031
ø50	0.315	0.390	0.352	0.410	0.460	0.377	0.289	0.272	0.334	0.067	0.063	0.070
ø63	0.395	0.670	0.544	0.550	0.684	0.675	0.474	0.272	0.334	0.067	0.128	0.070
ø80	0.816	1.076	0.982	0.870	1.508	1.025	0.846	0.551	0.553	0.142	0.158	0.150
ø100	1.014	1.587	1.493	1.400	1.975	1.680	1.373	0.551	0.553	0.142	0.292	0.150

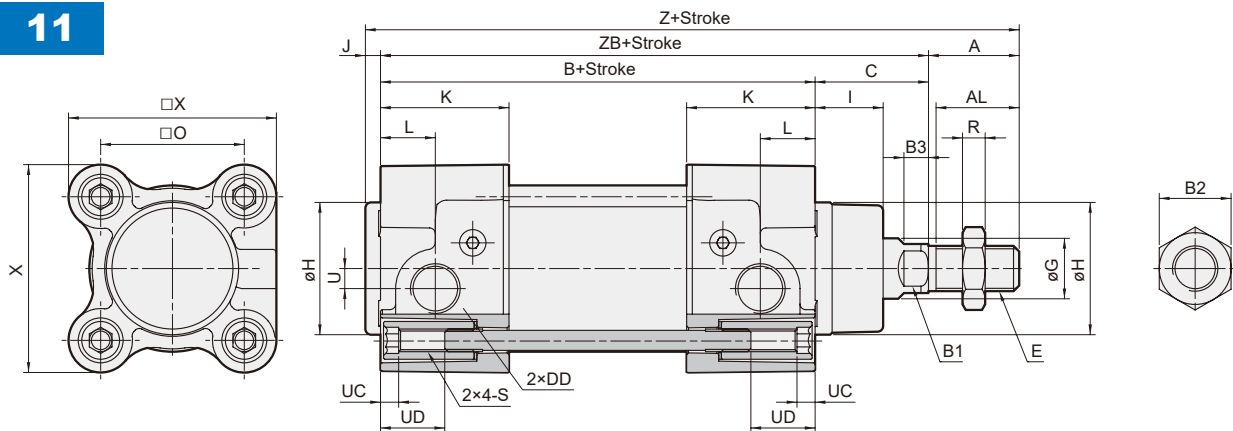


No.	Accessories	Material	Page
1	Mounting accessories LB	Carbon steel	1-58
2	Mounting accessories CA	Cast iron	1-60
3	Mounting accessories CB+PIN	Cast iron / *1	1-38, 60
4	Mounting accessories CDB	Cast iron	1-61
5	Mounting accessories FAC/FBC	Carbon steel	1-59
6	Mounting accessories TA/TB/TC	Cast iron	1-61, 62
7	Accessories Y+PIN	Cast iron / *1	1-46
8	Accessories YS (Y+Floating pin)	Carbon steel	1-46
9	Accessories I+PIN	Carbon steel	1-46
10	Locking unit MCBQV*	Aluminum alloy+*2	1-88

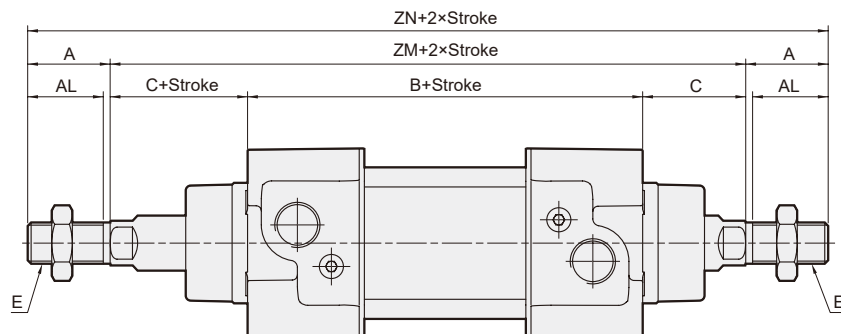
No.	Accessories	Material	Page
11	Floating joint MFC	Carbon steel	8-2
12	Floating joint MFCS	Carbon steel	8-5
13	Female rod ends PHS	Carbon steel	8-6
14	Fitting PC (PISCO)	—	8-3 (Vol.1)
15	Speed controller JSC (PISCO)	—	8-15 (Vol.1)
16	Cylinder link seats MVSN-300-C*3	Aluminum alloy	1-69 (Vol.1)
17	Solenoid valve MVSN-220 / 300*3	—	1-65, 67 (Vol.1)
18	Sensor switch RCA+HV*	—	8-8
19	Protective bellows kit	NBR	—

*1. PIN material is carbon steel. *2. Bronze alloy.
*3. Only for tube I.D. ø40, ø50.

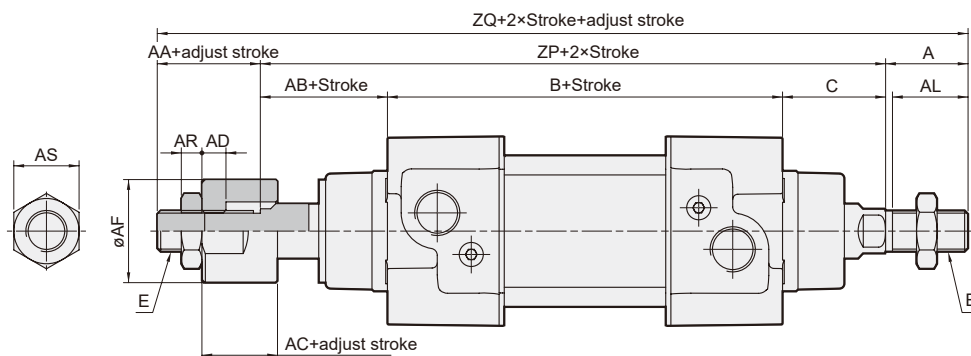
11



21



27

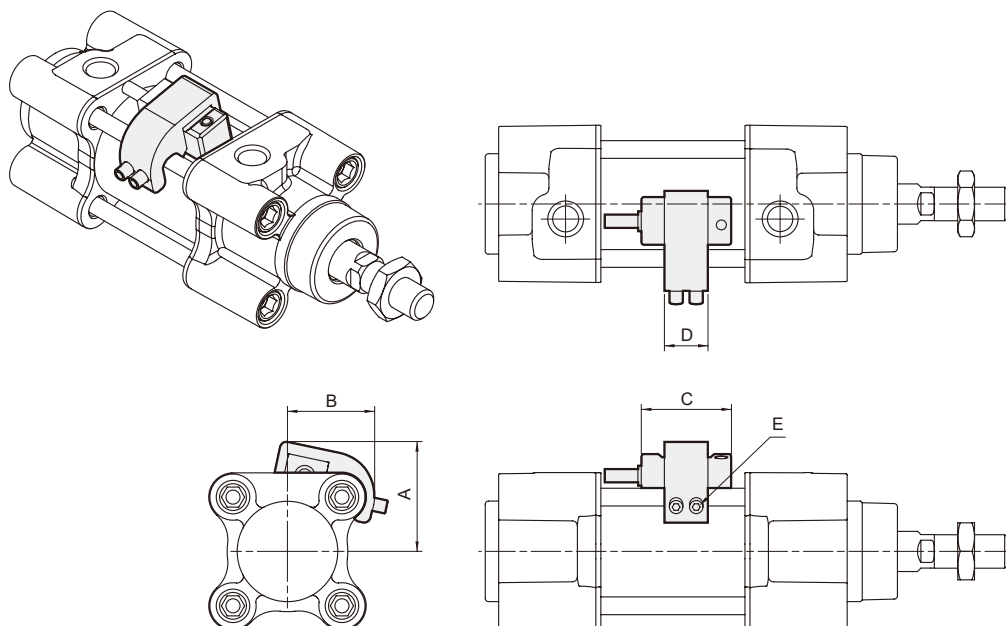


Code Tube I.D.	A	AA	AB	AC	AD	AE	AF	AL	AR	AS	B	B1	B2	B3	C	DD	E	G	H	I	J	K	L	O
32	22	16	26	12	7	M10×1.25	20	20	5	17	94	10	17	4	26	G1/8	M10×1.25	12	30	15	4	30.5	20	32.5
40	24	20	27	12	7	M12×1.25	30	22	6	19	105	13	19	6.5	30	G1/4	M12×1.25	16	35	18	4	34	14.5	38
50	32	18	34	15	10	M16×1.5	40	30	8	24	106	17	24	6	37	G1/4	M16×1.5	20	40	28	4	31	16	46.5
63	32	20	32	15	10	M16×1.5	40	30	8	24	121	17	24	8	37	G3/8	M16×1.5	20	45	26	4	33	16	56.5
80	40	32	41	20	14	M22×1.5	50	38	13	32	128	22	30	10	46	G3/8	M20×1.5	25	45	32.5	4	35.5	20.5	72
100	40	30	46	20	14	M22×1.5	50	38	13	32	138	22	30	10	51	G1/2	M20×1.5	25	55	37.5	4	37	19	89

Code Tube I.D.	R	S	U	UC	UD	X	Z	ZB	ZM	ZN	ZP	ZQ
32	5	M6×1.0	4.5	4.5	16	47	146	120	146	190	146	184
40	6	M6×1.0	5.3	4.5	16	55	163	135	165	213	162	206
50	8	M8×1.25	8.5	4.5	16	65	179	143	180	244	177	227
63	8	M8×1.25	8	4.5	16	78	194	158	195	259	190	242
80	10	M10×1.5	9	4.5	18	95	218	174	220	300	215	287
100	10	M10×1.5	13	4.5	18	115	233	189	240	320	235	305

MCQV3 Installation of sensor switch $\varnothing 32 \sim \varnothing 100$

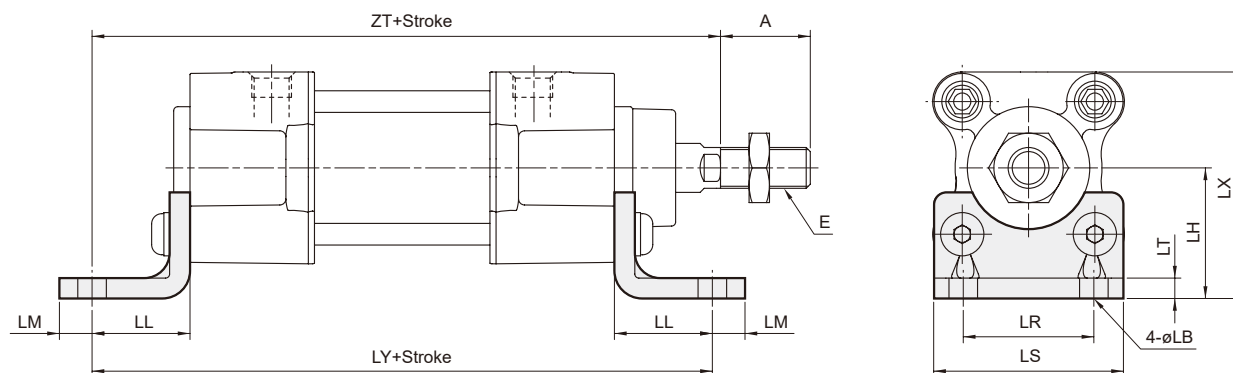
ISO 15552 **STANDARD CYLINDER**



Code Tube I.D.	Sensor switch	Hold	A	B	C	D	E
32	RCA	HV1	34	25	26	13	M4×10L
40	RCA	HV1	34	26	26	13	M4×10L
50	RCA	HV2	43	38	26	13	M4×10L
63	RCA	HV2	48	43	26	13	M4×10L
80	RCA	HV3	55	48	26	13	M5×16L
100	RCA	HV3	62	58	26	13	M5×16L

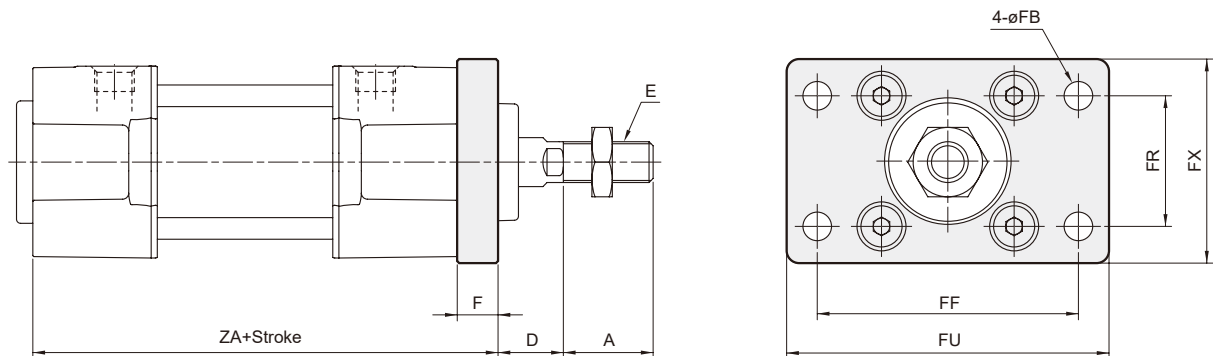
■ Mounting accessories

LB

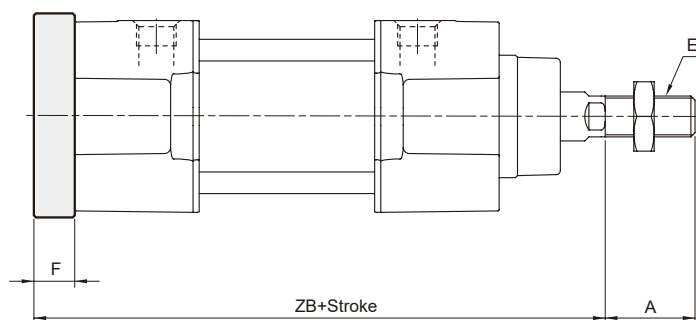


Code Tube I.D.	A	E	LB	LH	LL	LM	LR	LS	LT	LX	LY	ZT
32	22	M10×1.25	7	32	24	8	32	47	5	55.5	142	144
40	24	M12×1.25	9	36	28	10	36	53	5	63.2	161	163
50	32	M16×1.5	9	45	32	10	45	65	5	77.5	170	175
63	32	M16×1.5	9	50	32	10	50	75	5	89.0	185	190
80	40	M20×1.5	12	63	41	13	63	95	6	110.5	210	215
100	40	M20×1.5	14	71	41	13	75	115	6	128.5	220	230

FAC

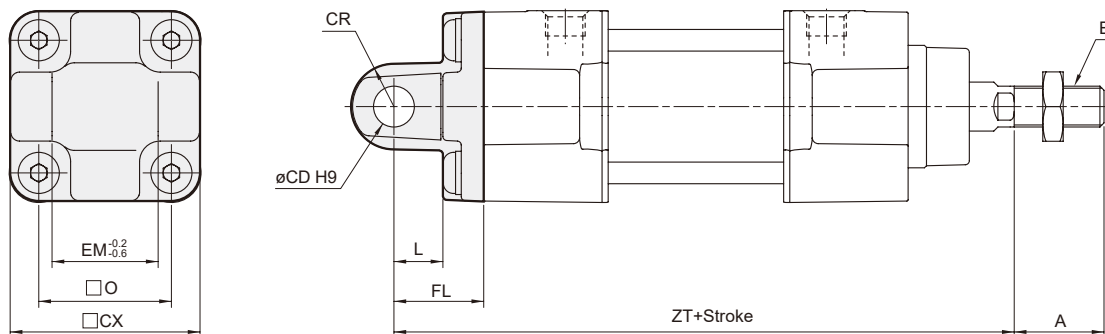


FBC

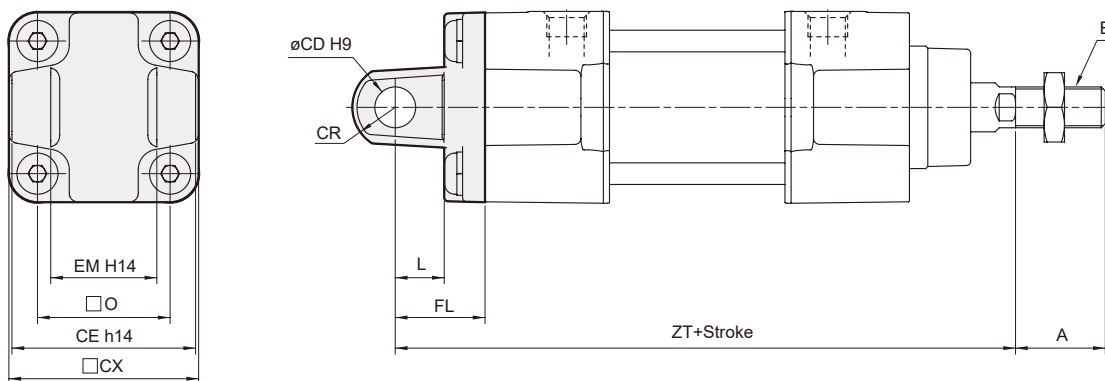


Code Tube I.D.	A	D	E	F	FB	FF	FR	FU	FX	ZA	ZB
32	22	16	M10×1.25	10	7	64	32	79	50	104	130
40	24	20	M12×1.25	10	9	72	36	90	52	115	145
50	32	25	M16×1.5	12	9	90	45	110	65	118	155
63	32	25	M16×1.5	12	9	100	50	125	76	133	170
80	40	30	M20×1.5	16	12	126	63	154	94	144	190
100	40	35	M20×1.5	16	14	150	75	180	112	154	205

CA

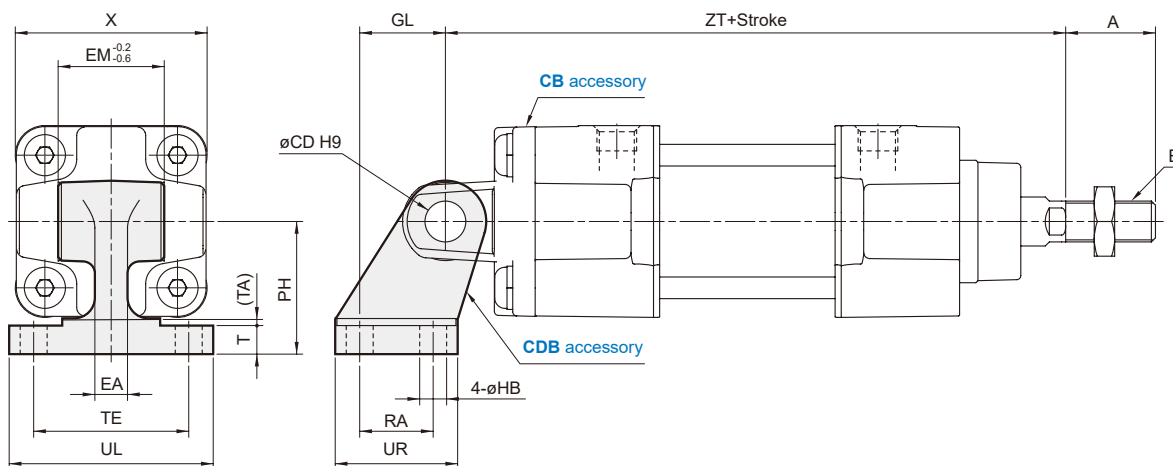


CB



CDB

CB+Pin (Extra purchase)

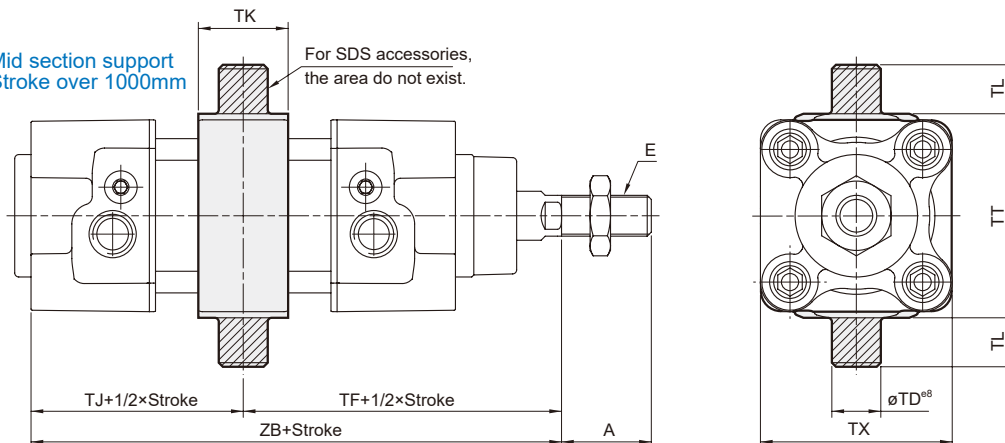


Code Tube I.D.	A	CD	CE	CR	CX	E	EA	EM	FL	GL	HB	L	O	PH	RA	T	TA	TE	UL	UR	X	ZT
32	22	10	45	R10.5	46.5	M10×1.25	8	26	22	21	6.6	12	32.5	32	18	6.5	1.5	38	50	30	47	142
40	24	12	52	R12	54	M12×1.25	10	28	25	24	6.6	15	38	36	22	8.5	1.5	41	53	34	55	160
50	32	12	60	R13	64	M16×1.5	10	32	27	33	9	15	46.5	45	30	10.5	1.5	50	65	45	65	170
63	32	16	70	R17	75	M16×1.5	12	40	32	37	9	20	56.5	50	35	10.5	1.5	52	67	50	78	190
80	40	16	90	R17	93	M20×1.5	12	50	36	47	11	20	72	63	40	11.5	2.5	66	86	60	95	210
100	40	20	110	R21	114	M20×1.5	16	60	41	55	11	25	89	71	50	12.5	2.5	76	96	70	115	230

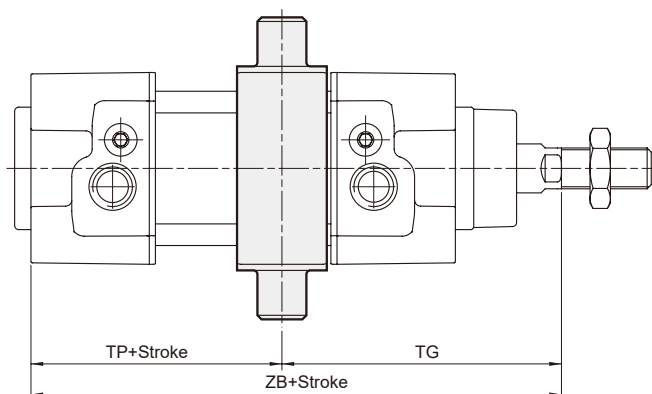
TC

SDS

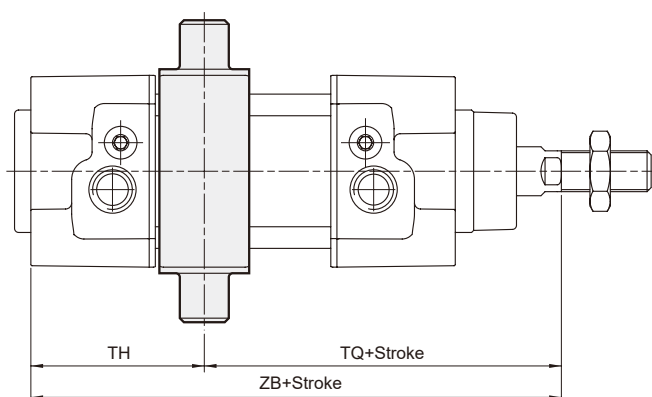
Mid section support
Stroke over 1000mm



TA



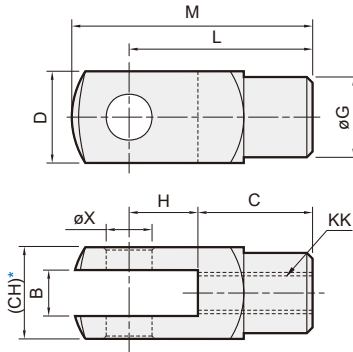
TB



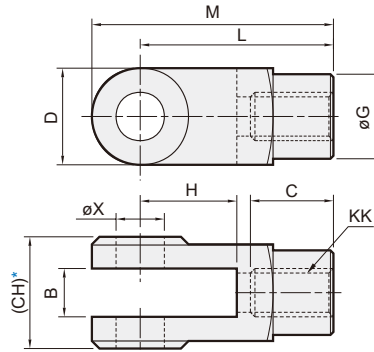
Code Tube I.D.	A	E	TD	TF	TG	TH	TJ	TK	TL	Without magnet			Magnet			TC	SDS	TX
										TP	TQ	ZB	TP	TQ	ZB			
32	22	M10×1.25	12	73	68.5	42.5	47	22	12	51.5	77.5	120	81.5	107.5	150	50	49	47
40	24	M12×1.25	16	82.5	76	46	52.5	22	16	59	89	135	89	119	165	63	55	53
50	32	M16×1.5	16	90	80	43	53	22	16	63	100	143	93	130	173	75	68	66
63	32	M16×1.5	20	97.5	85	48	60.5	28	20	73	110	158	103	140	188	90	82	80
80	40	M20×1.5	20	110	99.5	53.5	64	34	20	74.5	120.5	174	114.5	160.5	214	110	108	106
100	40	M20×1.5	25	120	109	58	69	40	25	80	131	189	120	171	229	132	130	126

Y connector

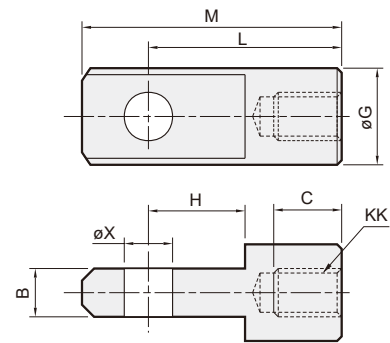
$\phi 32 \sim \phi 40$



$\phi 50 \sim \phi 100$



I connector

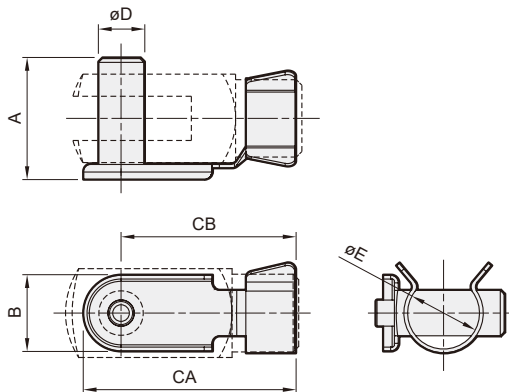


* Please do not take the sand casting plate as the mounting plate, because we do not machine it.
If you have this special demand, please contact our sales representative.

Code	B		C		CH		D		G		H		KK		L		M		X ^{H9}
Tube I.D.	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	Y	I	
32	10 ^{+0.5} _{+0.15}	10 ^{-0.1} _{-0.2}	20	17	19	—	19	—	$\phi 18$	$\phi 20$	20	15	M10×1.25	40	40	52	52	$\phi 10$	$\phi 10$ ^{+0.04} ₀
40	12 ^{+0.5} _{+0.15}	12 ^{-0.1} _{-0.2}	24	21	22	—	22	—	$\phi 20$	$\phi 24$	24	18	M12×1.25	48	48	62	62	$\phi 12$	$\phi 12$ ^{+0.04} ₀
50	16 ^{+0.3} _{+0.1}	16 ^{-0.1} _{-0.3}	28	23	32	—	32	—	$\phi 28$	$\phi 32$	32	32	M16×1.5	64	64	89	86	$\phi 16$	$\phi 16$ ^{+0.04} ₀
63	16 ^{+0.3} _{+0.1}	16 ^{-0.1} _{-0.3}	28	23	32	—	32	—	$\phi 28$	$\phi 32$	32	32	M16×1.5	64	64	89	86	$\phi 16$	$\phi 16$ ^{+0.04} ₀
80	20 ^{+0.3} _{+0.1}	20 ^{-0.1} _{-0.3}	33	30	45	—	40	—	$\phi 36$	$\phi 36$	40	40	M20×1.5	80	80	100	108	$\phi 20$	$\phi 20$ ^{+0.05} ₀
100	20 ^{+0.3} _{+0.1}	20 ^{-0.1} _{-0.3}	33	30	45	—	40	—	$\phi 36$	$\phi 36$	40	40	M20×1.5	80	80	100	108	$\phi 20$	$\phi 20$ ^{+0.05} ₀

PIN

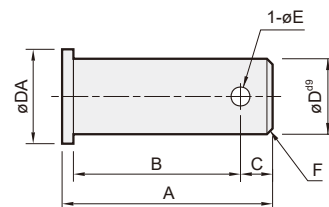
S



for floating pin

Code	A	B	CA	CB	D ^{d9}	E
Tube I.D.						
32	26	14	45	38	$\phi 10$ ^{-0.04} _{-0.07}	17
40	31	16	54	46	$\phi 12$ ^{-0.05} _{-0.09}	19
50,63	42	20	70	60	$\phi 16$ ^{-0.05} _{-0.09}	27
80,100	56	30	91	76	$\phi 20$ ^{-0.06} _{-0.11}	35

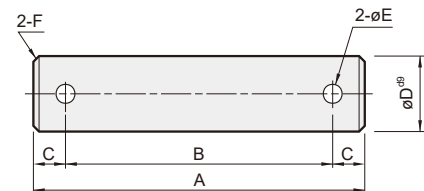
P



for Y & I connector

Code	A	B	C	D ^{d9}	DA	E	F	Split pin
Tube I.D.								
32	30	25	3.5	$\phi 10$ ^{-0.06} _{-0.09}	14	3.2	1	3.2×20L
40	37	30	5	$\phi 12$ ^{-0.06} _{-0.09}	16	3.2	1	3.2×20L
50,63	47	37	7	$\phi 16$ ^{-0.05} _{-0.09}	22	4	1	4×25L
80,100	62	50	8	$\phi 20$ ^{-0.06} _{-0.11}	30	5	1.5	5×35L

P



for CA & CB

Code	A	B	C	D ^{d9}	E	F	Split pin
Tube I.D.							
32	69	55	7	$\phi 10$ ^{-0.05} _{-0.09}	4	1.0	4×20L
40	76	62	7	$\phi 12$ ^{-0.05} _{-0.09}	4	1.0	4×20L
50	84	70	7	$\phi 12$ ^{-0.05} _{-0.09}	4	1.0	4×20L
63	94	80	7	$\phi 16$ ^{-0.05} _{-0.09}	4	1.0	4×30L
80	117	100	8.5	$\phi 16$ ^{-0.05} _{-0.09}	5	1.5	5×30L
100	137	120	8.5	$\phi 20$ ^{-0.05} _{-0.09}	5	1.5	5×35L