

■ Features

1. Built in magnet for sensor use.
2. Caps are rolled and polished, which provides stable quality.
3. Stainless steel SUS304 barrel provides stable movement and features high quality and durable life.
4. Stainless steel SUS304 barrel features corrosion resistance and strongly mechanical strength.



■ How to order

PMA	32	B50 C	SF	D	1	FA	Y	S	
Type	Bore size	Stroke	Cushion	Sensor	Type	Number of sensor	Mounting parts	Rod end joint	Rod material
PMA: Standard type	16 :Ø16		Blank :W/O cushion	Blank :W/O sensor	Blank :Reed switch	1 pc	Blank :W/O mounting parts	Blank :W/O rod end joint	Blank :S45C
PMAC: Boss-cut	20 :Ø20		C :W/I cushion	SF :LED in front	D :NPN	2 pcs	FA :Front flange (Ø16 ~ Ø25)	Y :Double knuckle joint (Ø16 ~ Ø40)	S :SUS304
PMAD: Double rod	25 :Ø25				E :PNP		FB :Rear flange (Ø16 ~ Ø25)	I :Single knuckle joint (Ø16 ~ Ø40)	
PMAA: Stroke adjustable 25mm	32 :Ø32						CB :Female clevis (Ø16 ~ Ø32)	P :Eyebolt floating joint (Ø16 ~ Ø40)	
PMAB: Stroke adjustable 50mm	40 :Ø40			AL-20			LB :Foot mounting (Ø16 ~ Ø40)	T :Basic floating joint (Ø16 ~ Ø63)	
	50 :Ø50			ST :LED on top				L :Axial foot type floating joint (Ø20 ~ Ø63)	
	63 :Ø63							F :Flange type floating joint (Ø20 ~ Ø63)	
				AL-21					

*Sensor please refer to P3-189~P3-190

■ How to order mounting parts

ZIPC	FA	—	20
PMA series	Mounting parts		Bore size
	FA: Front flange (Ø16 ~ Ø25)		16: Ø16
	FB: Rear flange (Ø16 ~ Ø25)		20: Ø20
	CB: Female clevis (Ø16 ~ Ø32)		25: Ø25
	LB: Foot mounting (Ø16 ~ Ø40)		32: Ø32
			40: Ø40

*Please refer to P3-63

■ How to order rod end joints

ZNF	Y	—	M6
	Rod end joint		Thread size
	Y: Double knuckle joint (Ø16 ~ Ø40)		M6: M6xP1.0 (PMA16)
	I: Single knuckle joint (Ø16 ~ Ø40)		M8: M8xP1.25 (PMA20)
	P: Eyebolt floating joint (Ø16 ~ Ø40)		M10: M10xP1.25 (PMA25, 32)
	T: Basic floating joint (Ø16 ~ Ø63)		M12: M12xP1.25 (PMA40)
	L: Axial foot type floating joint (Ø20 ~ Ø63)		M14: M14xP1.5 (PMA50, 63)
	F: Flange type floating joint (Ø20 ~ Ø63)		

*Please refer to P3-187~P3-188

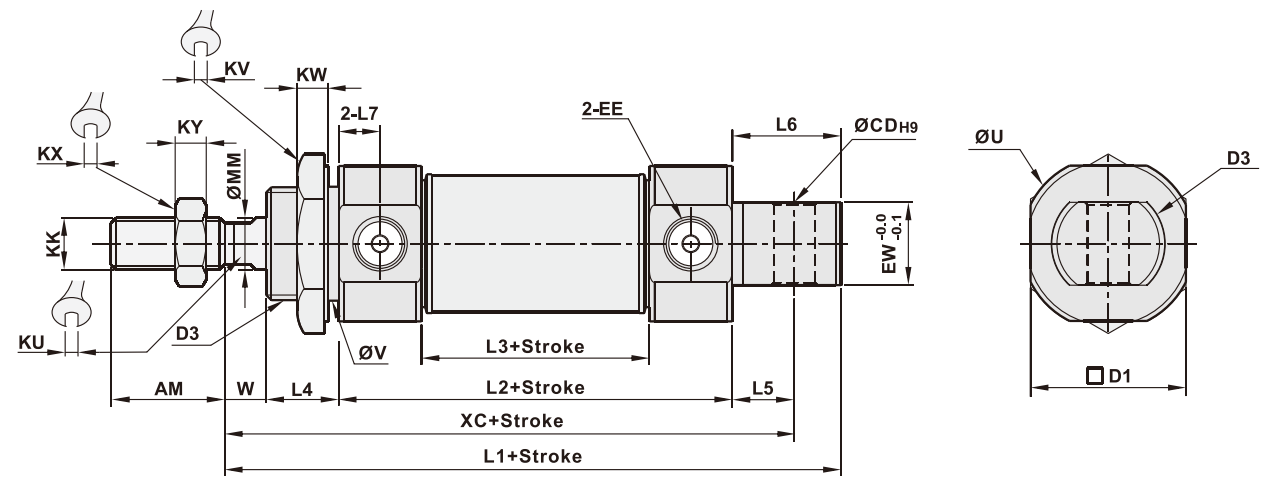
■ Specifications

Bore size	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63
Port size	M5xP0.8		1/8"			1/4"	
Fluid			Compressed air				
Acting			Double acting				
Operating pressure range			1.5 ~ 8.5 kgf/cm ²				
Max. operating pressure			9.5 kgf/cm ²				
Barrel material			Stainless steel SUS304				
Magnet			Built-in				
Ambient temperature			-5°C ~ 60°C				
Piston speed			50 ~ 700mm/Sec.				

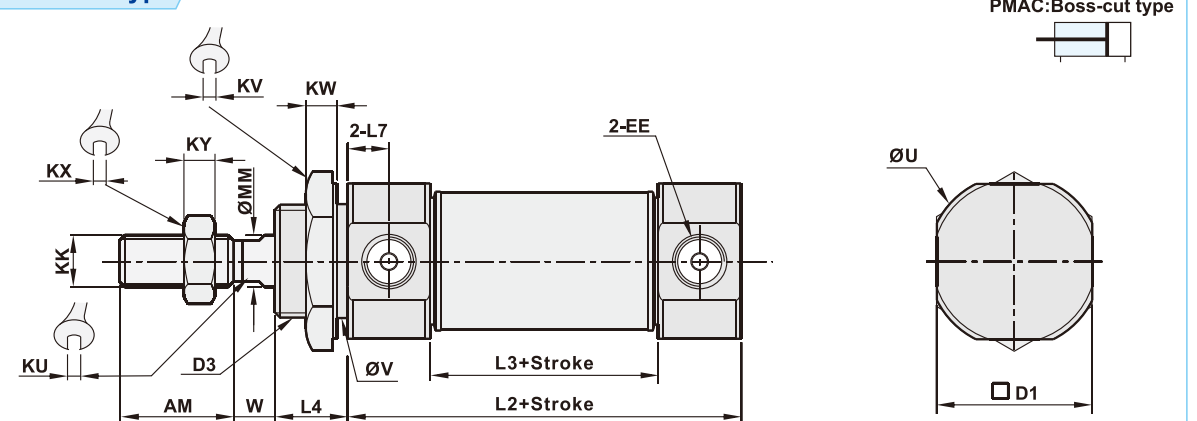
P3-59

■ Dimensions

PMA Standard integrated clevis type



PMAC Boss-cut type



(Unit: mm)

Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6	L7
Ø16	16	18.3	Ø6	M16xP1.5	98	60	40	16	9	16	5
Ø20	20	24	Ø8	M22xP1.5	117	76	44	12	12	21	8
Ø25	22	30	Ø8	M22xP1.5	119	76	44	14	12	21	8
Ø32	22	34.5	Ø10	M24xP2.0	125	76	44	14	15	27	8
Ø40	24	42.5	Ø12	M30xP2.0	125	76	42.6	14	15	27	8.4

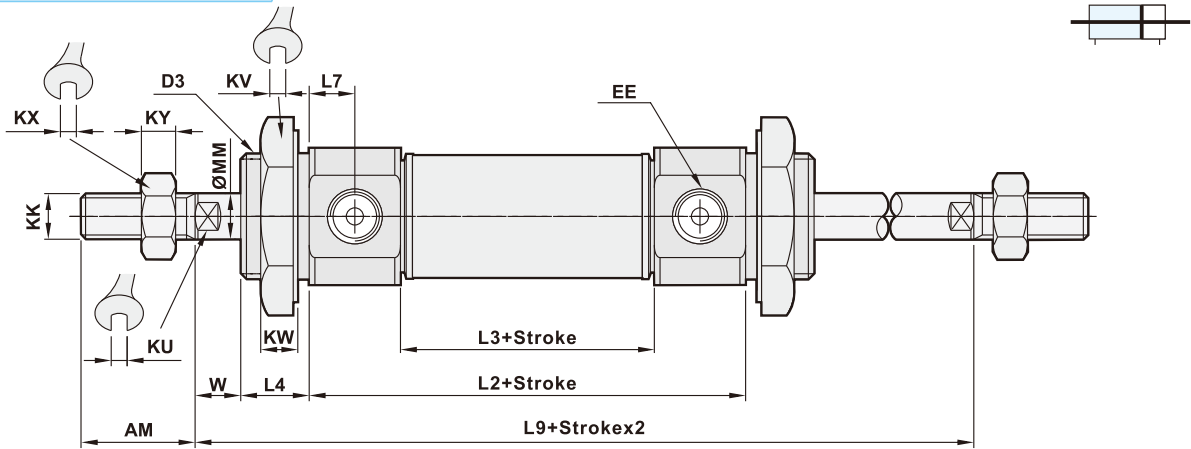
Bore size	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE	U	V
Ø16	M6xP1.0	5	22	6	10	5	Ø6	6	12	91	M5xP0.8	Ø20	Ø16
Ø20	M8xP1.25	6	30	6	13	6	Ø8	8	16	108	G 1/8	Ø28	Ø22
Ø25	M10xP1.25	8	30	6	17	6	Ø10	8	16	110	G 1/8	Ø33.5	Ø22
Ø32	M10xP1.25	10	32	8	17	6	Ø12	8	16	113	G 1/8	Ø37.5	Ø24
Ø40	M12xP1.25	14	41	8	19	7	Ø16	8	20	113	G 1/8	Ø46.5	Ø30

P3-60

■ Dimensions

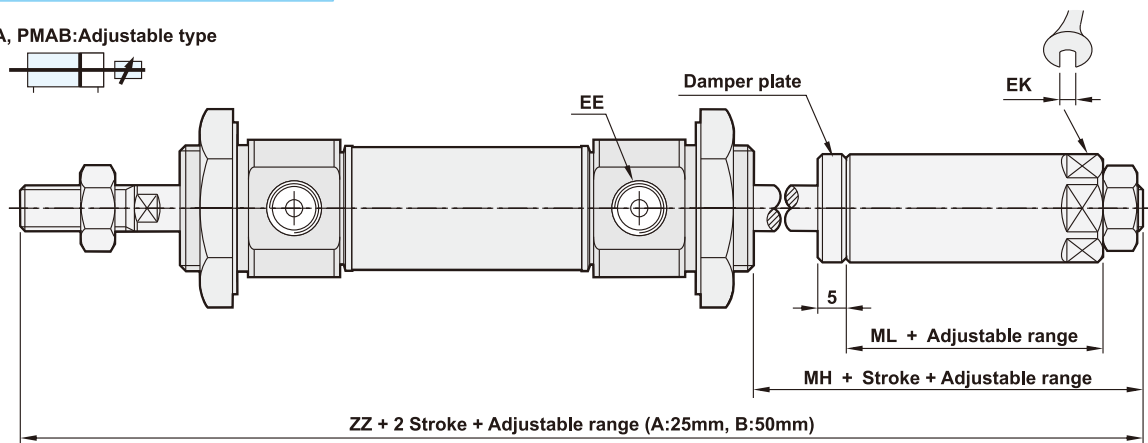
PMAD Double rod type

PMAD:Double rod type



PMAA, PMAB Adjustable type

PMAA, PMAB:Adjustable type



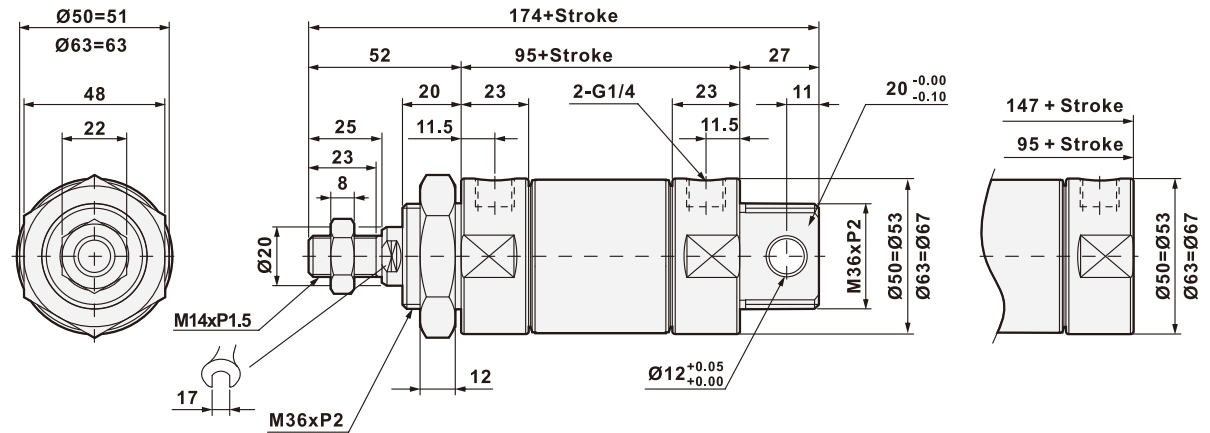
(Unit: mm)

Bore size	AM	D3	L2	L3	L4	L7	L9	EE	KU	KV
Ø16	16	M16xP1.5	60	40	16	5	104	M5xP0.8	5	22
Ø20	20	M22xP1.5	76	44	12	8	116	G1/8	6	30
Ø25	22	M22xP1.5	76	44	14	8	120	G1/8	8	30
Ø32	22	M24xP2.0	76	44	14	8	120	G1/8	10	32
Ø40	24	M30xP2.0	76	46.2	14	8.4	120	G1/8	14	41

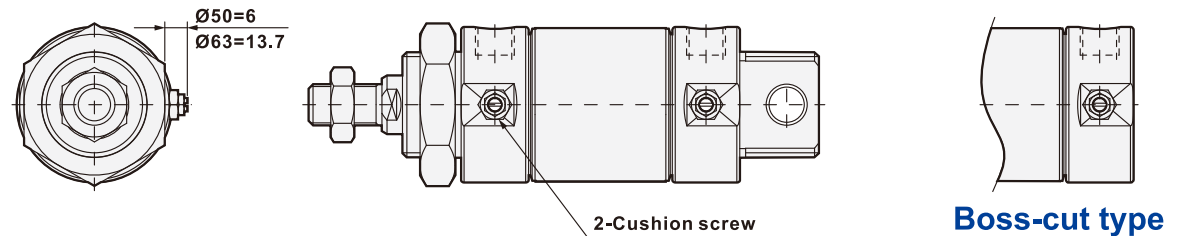
Bore size	KW	KX	KY	MM	W	KK	ZZ	MH	ML	KE
Ø16	6	10	5	Ø6	6	M6xP1.0	145	31	20	12
Ø20	6	13	6	Ø8	8	M8xP1.25	159	31	20	17
Ø25	6	17	6	Ø10	8	M10xP1.25	165	31	20	17
Ø32	8	17	6	Ø12	8	M10xP1.25	167	33	22	22
Ø40	8	19	7	Ø16	8	M12xP1.25	171	35	22	27

■ Dimensions

Standard type (Ø50~Ø63)



With Cushion (Ø50~Ø63)



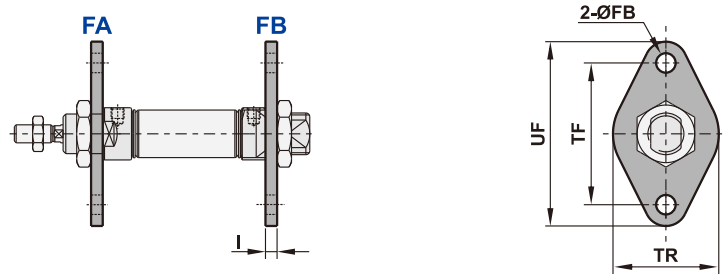
■ Stroke table

Bore size	Acting	Standard stroke (mm)	Max. Standard stroke (mm)
Ø16 ~ Ø63	Duble acting	5 ~ 500	900

Note: Please contact our sales for non-standar stroke.

Dimension of mounting parts

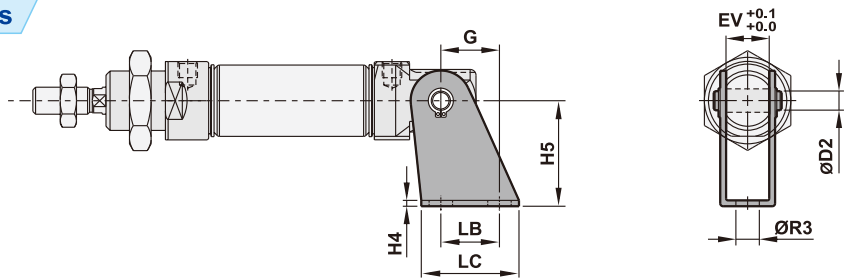
FA, FB Front & Rear flange



(Unit: mm)

Bore size	TF	TR	UF	UR	I	FB	Bore size	TF	TR	UF	UR	I	FB
Ø16	40	--	52	30	3	Ø5.5	Ø25	50	--	66	40	3	Ø6.5
Ø20	50	--	66	40	3	Ø6.5							

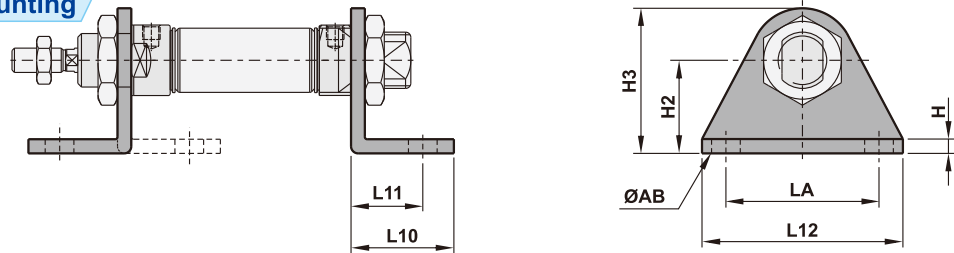
CB Female clevis



(Unit: mm)

Bore size	LB	LC	EV	H4	H5	G	D2	R3	Bore size	LB	LC	EV	H4	H5	G	D2	R3
Ø16	15	25	12	3	27	15	Ø6 ^{+0.03 / +0.0}	Ø6	Ø25	20	32	16	3	30	18.5	Ø8 ^{+0.04 / +0.0}	Ø7
Ø20	20	32	16	3	30	18.5	Ø8 ^{+0.04 / +0.0}	Ø7	Ø32	25	40	22	3	40	22.5	Ø10 ^{+0.04 / +0.0}	Ø9

LB Foot mounting



(Unit: mm)

Bore size	L10	L11	L12	LA	H	H2	H3	AB	Bore size	L10	L11	L12	LA	H	H2	H3	AB
Ø16	20.5	14	42	32	3	20	33	Ø6	Ø32	25	18	64	50	3.5	28	48	Ø7
Ø20	26	17	54	40	3	25	45	Ø7	Ø40	30	20	74	54	4	31.5	60	Ø7
Ø25	26	17	54	40	3	25	45	Ø7									

Memo...

