

PMAL Series

Aluminum Miniature Cylinder Standard Cylinder

Features

1. Miniature size and space saving.



How to order

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

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

How to order mounting parts

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

*Please refer to P3-68

How to order rod end joints

ZNF	Y	—	M8
	Rod end joint		Thread size
	Y:Double knuckle joint		M8 :M8xP1.25 (PMAL20)
	I:Single knuckle joint		M10 :M10xP1.25 (PMAL25, 32)
	P:Eyebolt floating joint		M12 :M12xP1.25 (PMAL40)
	T:Basic floating joint		
	L:Axial foot type floating joint		
	F:Flange type floating joint		

*Please refer to P3-187~P3-188

Specifications

Bore size	Ø20	Ø25	Ø32	Ø40
Port size		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		Aluminum alloy		
Ambient temperature		-5°C ~ 60°C		
Piston speed		50 ~ 700mm/Sec.		
Magnet		Option		

P3-65

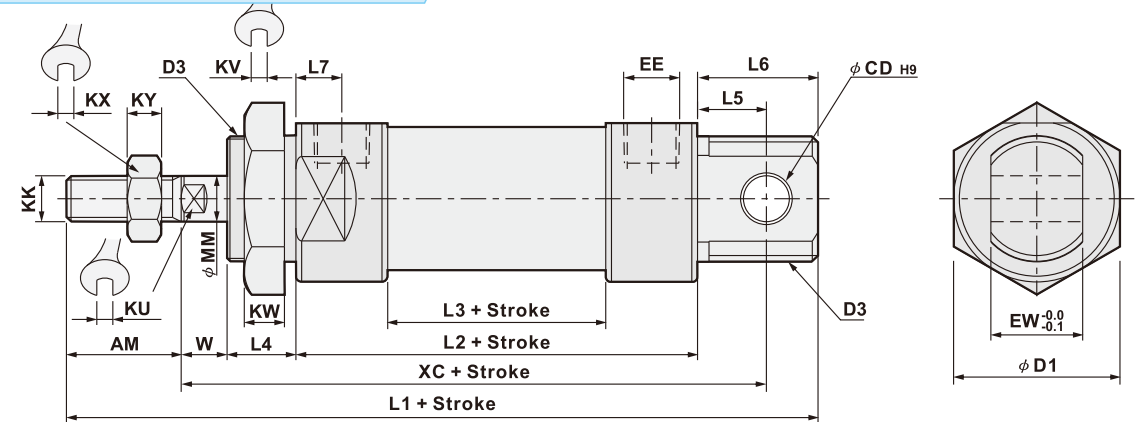
Stroke table

Bore size	Acting	Standard stroke(mm)	Max. Standard stroke(mm)
φ 20	Double acting	5 ~ 500	900
φ 25 ~ φ 40		5 ~ 500	1200

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

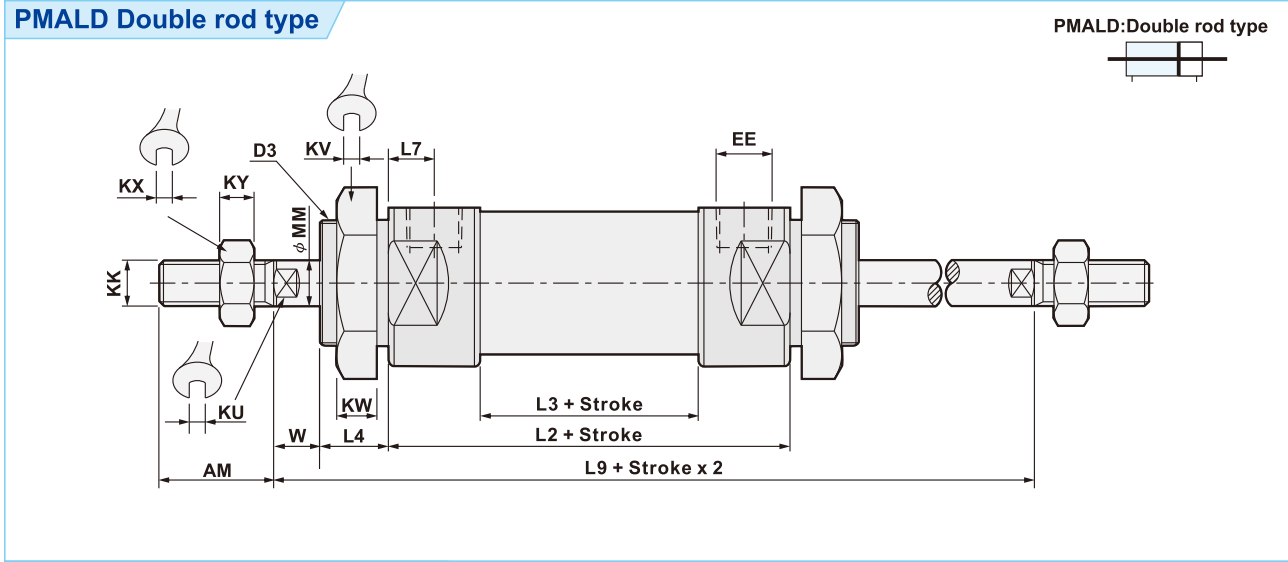
Dimensions

PMAL Standard integrated clevis type

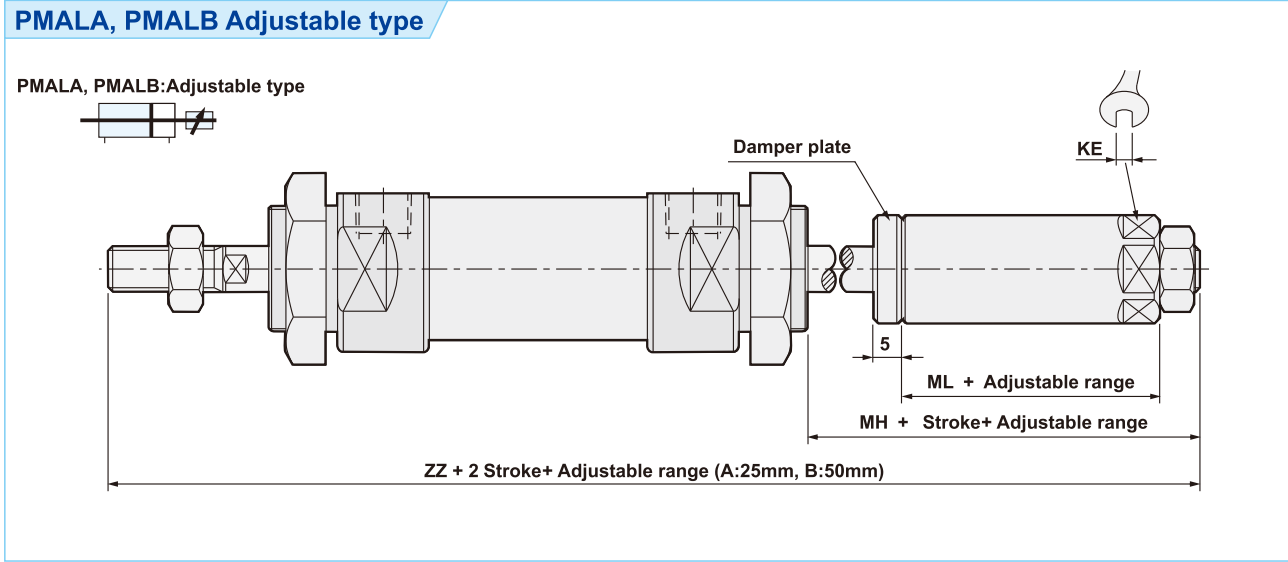


Dimensions

PMALD Double rod type



PMALA, PMALB Adjustable type



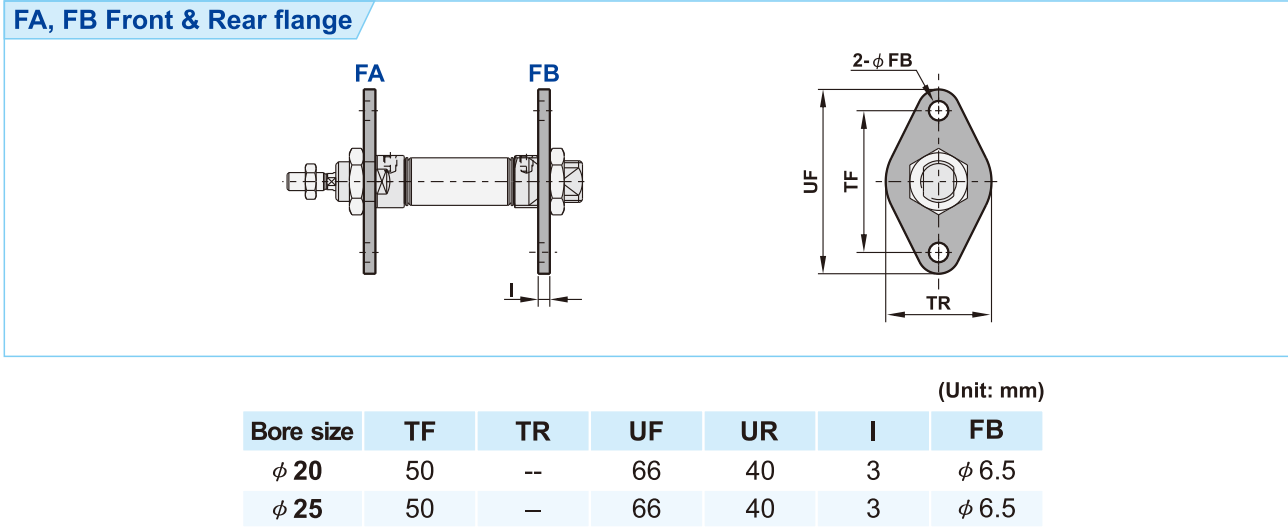
(Unit: mm)

Bore size	AM	D3	L2	L3	L4	L7	L9	EE	KE	KU
φ 20	20	M22xP1.5	70	38	12	8	110	G1/8	17	6
φ 25	22	M22xP1.5	70	38	14	8	114	G1/8	17	8
φ 32	22	M24xP2.0	70	38	14	8	114	G1/8	22	10
φ 40	24	M30xP2.0	92	48	14	11	136	G1/4	27	14

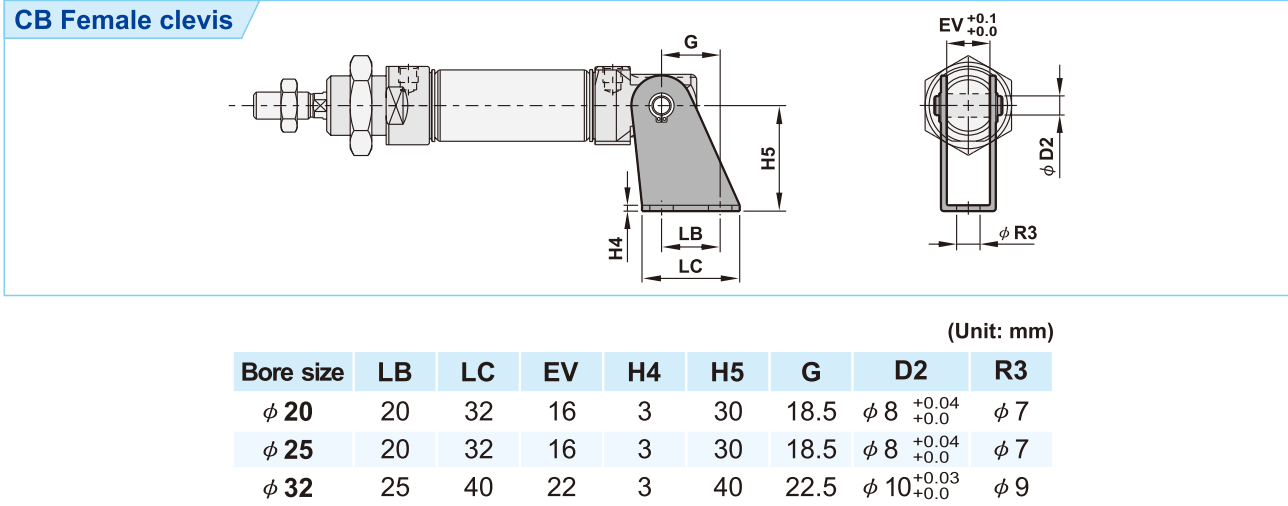
Bore size	KV	KK	KW	KX	KY	MH	ML	MM	W	ZZ
φ 20	30	M8xP1.25	6	11	4	31	20	φ 8	8	153
φ 25	30	M10xP1.25	6	17	6	31	20	φ 10	8	159
φ 32	32	M10xP1.25	8	17	6	33	22	φ 12	8	161
φ 40	41	M12xP1.25	8	19	7	35	22	φ 16	8	187

Dimension of mounting parts

FA, FB Front & Rear flange



CB Female clevis



LB Foot mounting

