

Features

- Identical to ISO6432 $\phi 8 \sim \phi 25$.
- Adjustable cushion at both ends is able to absorb vibration from high speed impact and provide stable movement.
- Built in magnet for sensor use.
- Caps are rolled and polished, which provides stable quality.
- Stainless steel SUS304 barrel provides stable movement and features high quality and durable life.
- Stainless steel SUS304 barrel features corrosion resistance and strongly mechanical strength.



How to order

PC	32	B50-C	-	SF	1	FA	-	Y
Type	Bore size	Stroke	Cushion	Sensor type	Number of sensor	Mounting parts		Rod end joint
PC : Standard integrated clevis	8 : $\phi 8$		Blank : W/O cushion	Blank : W/O sensor	1 pc	Blank : W/O mounting parts		Blank : W/O rod end joint
PCC : Boss-cut	10 : $\phi 10$		C : W/I cushion $\phi 16 \sim \phi 40$	SF : LED in front	2 pcs	FA : Front flange		Y : Double knuckle joint
PCD : Double rod	12 : $\phi 12$					FB : Rear flange		I : Single knuckle joint
PCA : Stroke adjustable 25mm	16 : $\phi 16$					CB : Female clevis		P : Eyebolt floating joint
PCB : Stroke adjustable 50mm	20 : $\phi 20$					LB : Foot mounting		T : Basic floating joint
PCH : Hollow double rod	25 : $\phi 25$							L : Axial foot type floating joint
PCG : Dual stroke/Single rod/Boss-cut	32 : $\phi 32$							F : Flange type floating joint
PCM : Dual stroke/Double rod	40 : $\phi 40$							
PCF : Dual stroke/Single rod/Standard								
APC : Single acting/Spring return/Standard								
APCC : Single acting/Spring return/Boss-cut								
APD : Single acting/Spring extended/Standard								
APDC : Single acting/Spring extended/Boss-cut								

*Please refer to P3-179 ~ P3-180

How to order mounting parts

ZIPC	FA	-	20
PC series	Mounting parts		Bore size
	FA : Front flange		12 : $\phi 12$
	FB : Rear flange		16 : $\phi 16$
	CB : Female clevis		20 : $\phi 20$
	LB : Foot mounting		25 : $\phi 25$
			32 : $\phi 32$
			40 : $\phi 40$

*Please refer to P3-38

How to order rod end joints

ZNF	Y	-	M6
	Rod end joint		Thread size
	Y : Double knuckle joint		M6 : M6xP1.0 (PC12 ~ 16)
	I : Single knuckle joint		M8 : M8xP1.25 (PC20)
	P : Eyebolt floating joint		M10 : M10xP1.25 (PC25 ~ 32)
	T : Basic floating joint		M12 : M12xP1.25 (PC40)
	L : Axial foot type floating joint		
	F : Flange type floating joint		

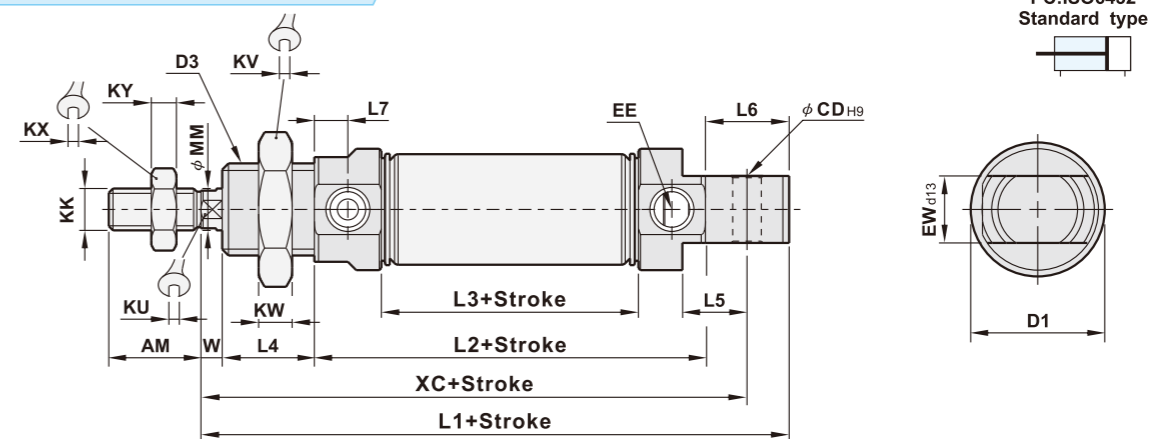
*Please refer to P3-177 ~ P3-178

Specifications

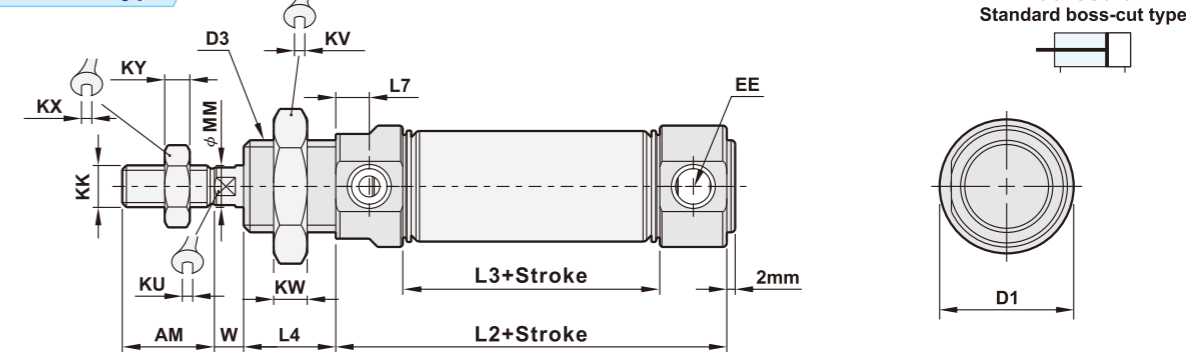
Bore size	$\phi 8$	$\phi 10$	$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
Port size	M5xP0.8				1/8"			
Fluid	Compressed air							
Acting	Double acting or single acting							
Cushion	Adjustable type							
Operating pressure range	1.5 ~ 8.5 kgf/cm ²							
Max. operating pressure	9.5 kgf/cm ²							
Barrel material	Stainless steel SUS304							
Magnet	Built-in							
Ambient temperature	-5°C ~ 60°C							
Distortion	50 ~ 700 mm (0.1 ~ 0.2 mm)							

Dimensions

PC Standard integrated clevis type



PCC Boss-cut type



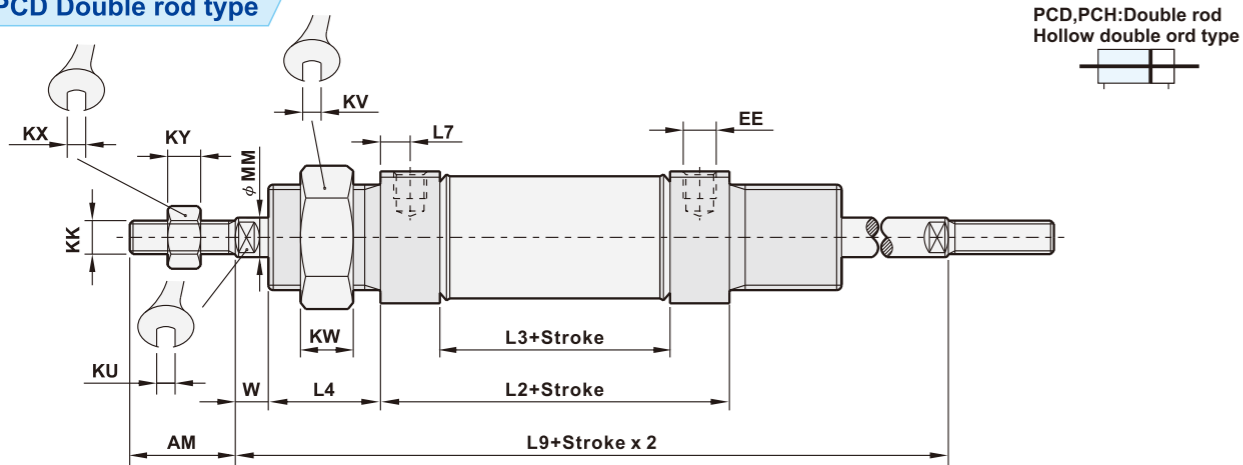
(Unit: mm)

Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6	L7
$\phi 8$	12	17	$\phi 4$	M12xP1.25	71.4	43.4	25.4	12	6	12	4.5
$\phi 10$	12	17	$\phi 4$	M12xP1.25	71.4	43.4	25.4	12	6	12	4.5
$\phi 12$	16	20	$\phi 6$	M16xP1.5	84.4	45.4	27.4	17	9	17	4.5
$\phi 16$	16	20	$\phi 6$	M16xP1.5	90	51	31	17	9	17	5
$\phi 20$	20	29	$\phi 8$	M22xP1.5	109	67	36	18	12	18	7.75
$\phi 25$	22	29	$\phi 8$	M22xP1.5	117.5	69.5	37.5	20	12	20	8
$\phi 32$	22	37	$\phi 10$	M27xP2.0	133	83	47	20	13.5	22	9
$\phi 40$	24	45	$\phi 10$	M33xP2.0	138	85	49	20	13.5	22	9

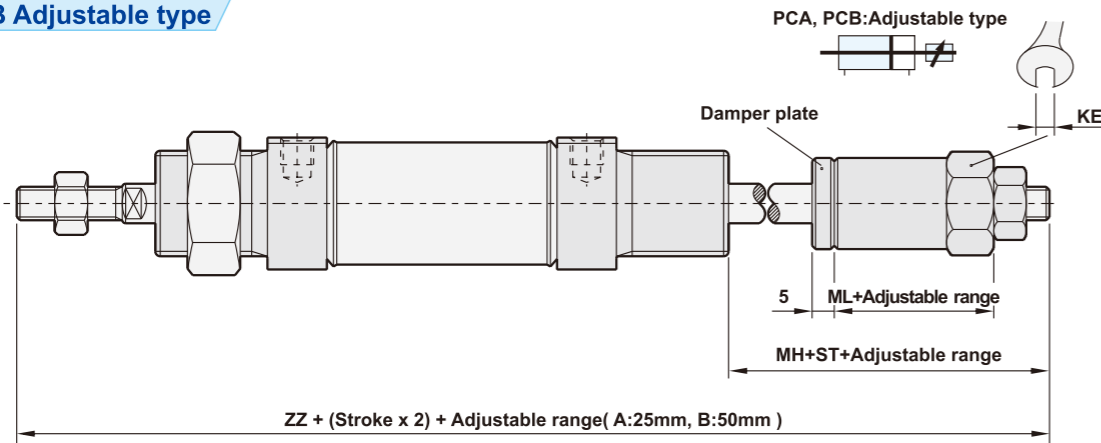
Bore size	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
$\phi 8$	M4xP0.7	3.4	17	4	7	3.2	$\phi 4$	4	8	64	M5xP0.8
$\phi 10$	M4xP0.7	3.4	17	4	7	3.2	$\phi 4$	4	8	64	M5xP0.8
$\phi 12$	M6xP1.0	5	22	6	10	5	$\phi 6$	5	12	75	M5xP0.8
$\phi 16$	M6xP1.0	5	22	6	10	5	$\phi 6$	5	12	82	M5xP0.8
$\phi 20$	M8xP1.25	7	30	6	13	6	$\phi 8$	6	16	95	G 1/8
$\phi 25$	M10xP1.25	9	30	6	17	6	$\phi 10$	8	16	104	G 1/8
$\phi 32$	M10xP1.25	10	32	8	17	6	$\phi 12$	8	22	120	G 1/8
$\phi 40$	M10xP1.25	11	32	8	17	6	$\phi 12$	8	22	125	G 1/8

Dimensions

PCD Double rod type



PCA, PCB Adjustable type



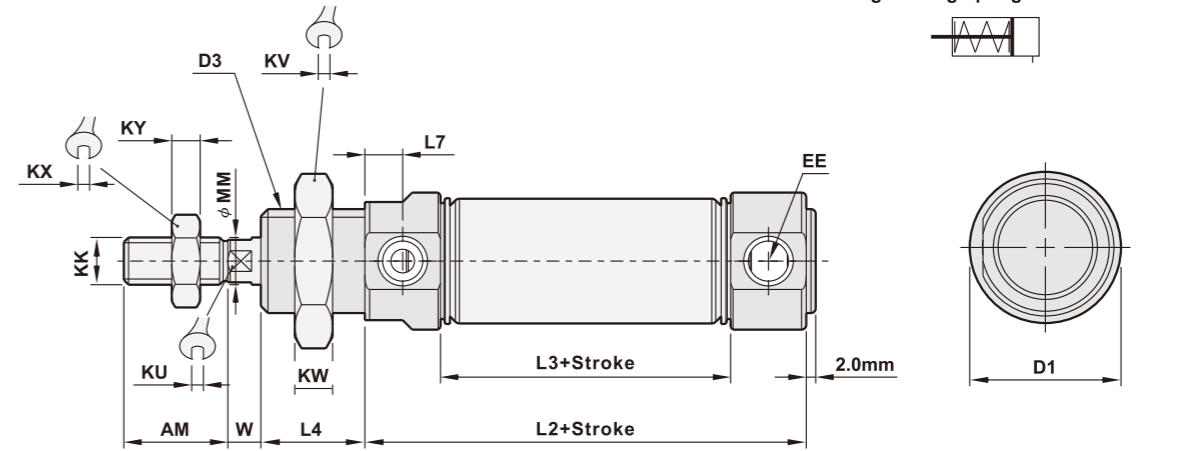
(Unit: mm)

Bore size	AM	L2	L3	L4	L7	L9	EE	KU	KV	KW	KX
φ 8	12	43.4	25.4	12	4.5	77	M5xP0.8	3.4	17	4	7
φ 10	12	43.4	25.4	12	4.5	77	M5xP0.8	3.4	17	4	7
φ 12	16	45.4	27.4	17	4.5	89.4	M5xP0.8	5	22	6	10
φ 16	16	51	31	17	5	95	M5xP0.8	5	22	6	10
φ 20	20	67	36	18	7.75	115	G 1/8	7	30	6	13
φ 25	22	69.5	37.5	20	8	125.5	G 1/8	9	30	6	17
φ 32	22	83	47	20	9	139	G 1/8	10	32	8	17
φ 40	24	85	49	20	9	147	G 1/8	14	41	8	19

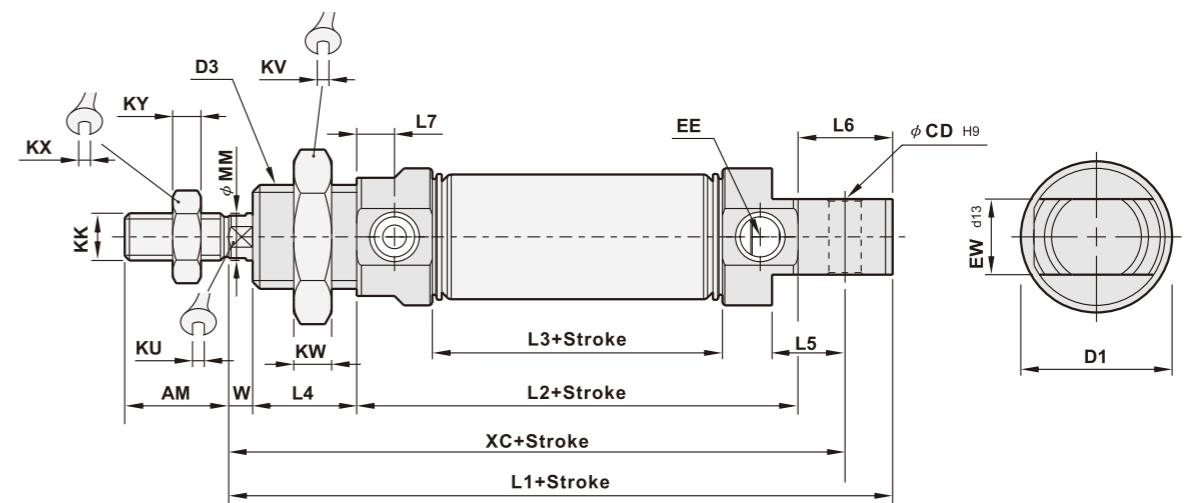
Bore size	KY	MM	W	KK	ZZ	MH	ML	KE
φ 8	3.2	φ 4	4	M4xP0.7	108	23.8	13	8
φ 10	3.2	φ 4	4	M4xP0.7	108	23.8	13	8
φ 12	5	φ 6	5	M6xP1	134.4	34	20	12
φ 16	5	φ 6	5	M6xP1	140	34	20	12
φ 20	6	φ 8	6	M8xP1.25	162	33	20	17
φ 25	6	φ 10	8	M10xP1.25	172.5	33	20	17
φ 32	6	φ 12	8	M10xP1.25	188	35	22	22

Dimensions

APCC Single acting/Spring return/Boss-cut



APC Single acting/Spring return/Standard



(Unit: mm)

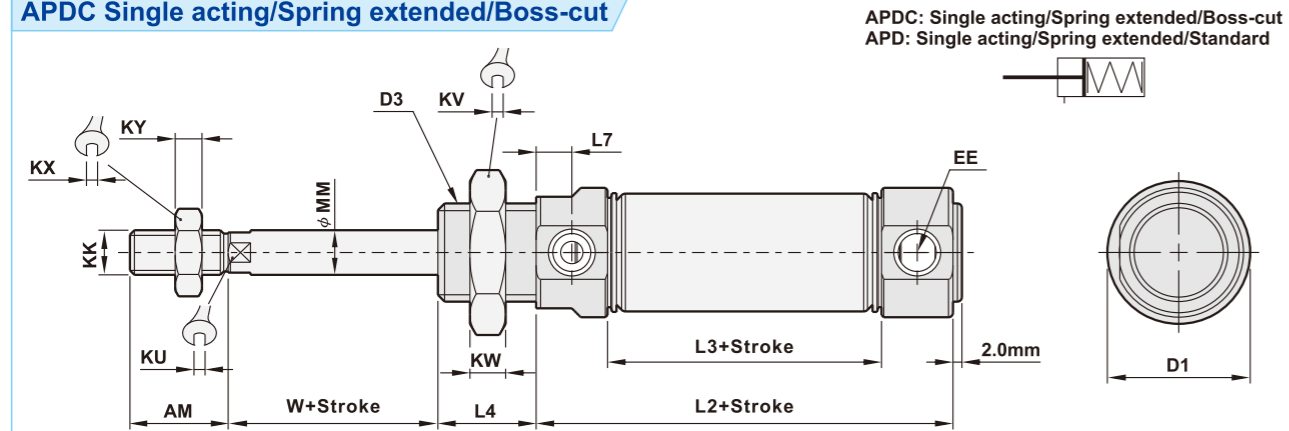
Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6
φ 20	20	29	φ 8	M22xP1.5	134	92	61	18	12	18
φ 25	22	29	φ 8	M22xP1.5	142.5	94.5	62.5	20	12	20
φ 32	22	37	φ 10	M27xP2.0	158	108	72	20	13.5	22
φ 40	24	45	φ 10	M33xP2.0	163	110	74	20	13.5	22

Bore size	L7	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
φ 20	7.75	M8xP1.25	7	30	6	13	6	φ 8	6	16	120	G 1/8
φ 25	8	M10xP1.25	9	30	6	17	6	φ 10	8	16	129	G 1/8
φ 32	9	M10xP1.25	10	32	8	17	6	φ 12	8	22	145	G 1/8
φ 40	9	M10xP1.25	14	41	8	19	7	φ 12	11	22	150	G 1/8

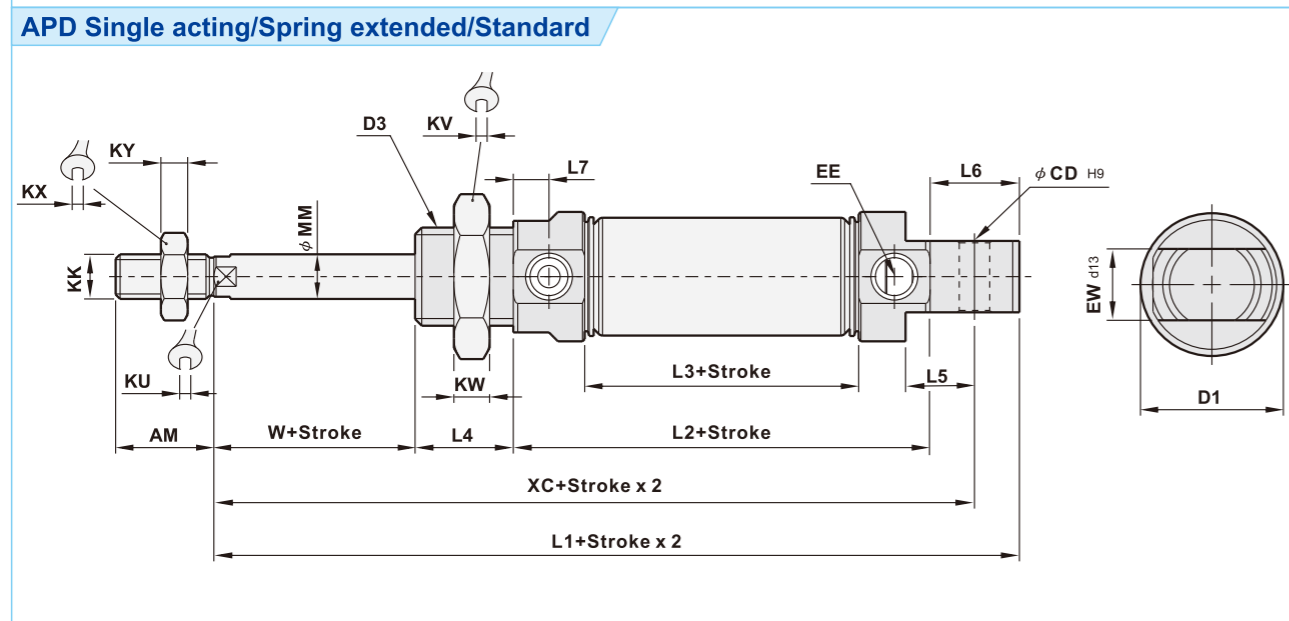
Pneumatic Actuators
Pen Cylinder
PC
PCL
PMA
PMAL
PJ

■ Dimensions

APDC Single acting/Spring extended/Boss-cut



APD Single acting/Spring extended/Standard



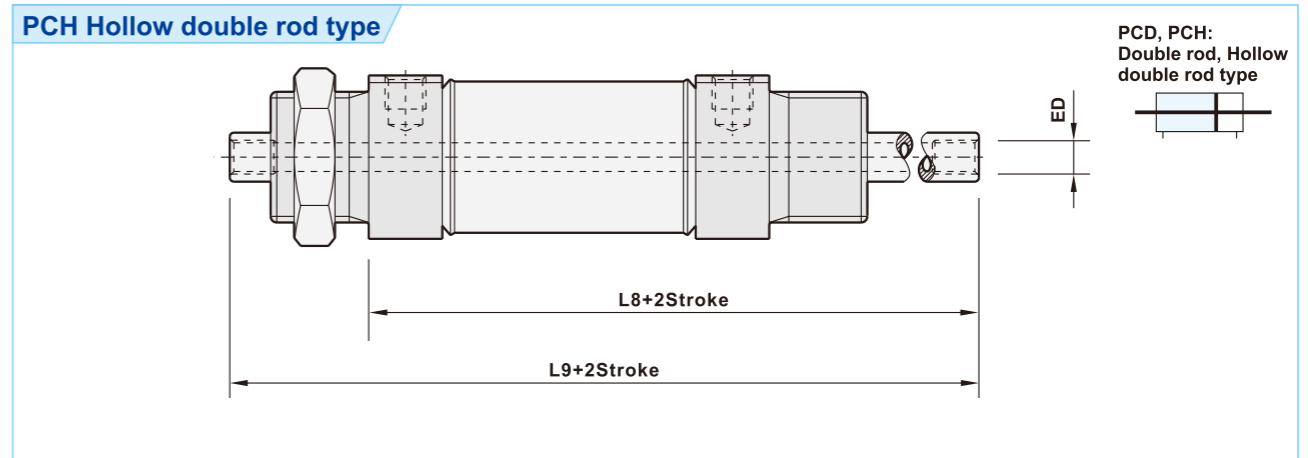
(Unit: mm)

Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6
φ 20	20	29	φ 8	M22xP1.5	134	92	61	18	12	18
φ 25	22	29	φ 8	M22xP1.5	142.5	94.5	62.5	20	12	20
φ 32	22	37	φ 10	M27xP2.0	158	108	72	20	13.5	22
φ 40	24	45	φ 10	M33xP2.0	163	110	74	20	13.5	22

Bore size	L7	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
φ 20	7.75	M8xP1.25	7	30	6	13	6	φ 8	6	16	120	G 1/8
φ 25	8	M10xP1.25	9	30	6	17	6	φ 10	8	16	129	G 1/8
φ 32	9	M10xP1.25	10	32	8	17	6	φ 12	8	22	145	G 1/8

■ Dimensions

PCH Hollow double rod type



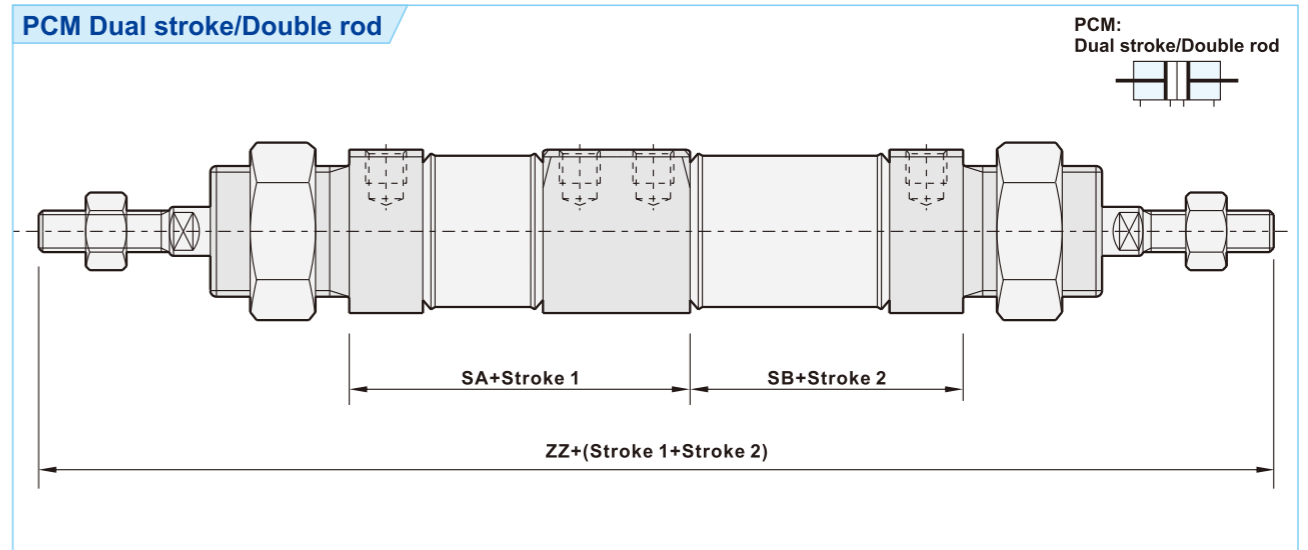
(Unit: mm)

Bore size	L8	L9	ED
φ 25	98	126	M5xP0.8x20
φ 32	112	140	PT1/8
φ 40	116	147	PT1/8

- Suitable for vacuum pad.
- Vacuum pad and other devices could be directly screwed on to rod end.
- Permanent magnetic is built-in.

*Please refer to page 3-41 PC standard integrated clevis type for other dimensions.

PCM Dual stroke/Double rod



(Unit: mm)

Bore size	SA	SB	ZZ
φ 25	85.5	53.5	239
φ 32	101.5	65.5	267
φ 40	103	67	280

- Two cylinders are constructed as one cylinder in a shrinking back configuration.
- Cylinder stroke could be controlled in three or four steps.
- One end of piston rod is fixed, the cylinder barrel executes the movement, the cylinder must connected with flexible line connections.
- Applicable to positioning transportation, quantitative filling, right and left displacement, capable flow control...etc, which is for accuracy and speedy purpose.

Pneumatic Actuators

Pen Cylinder

PC

PCL

PMA

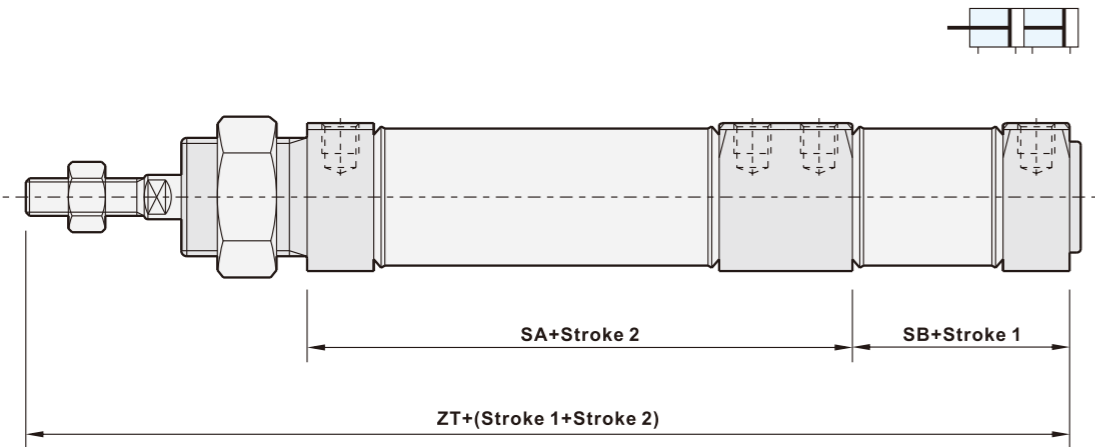
PMAL

PJ

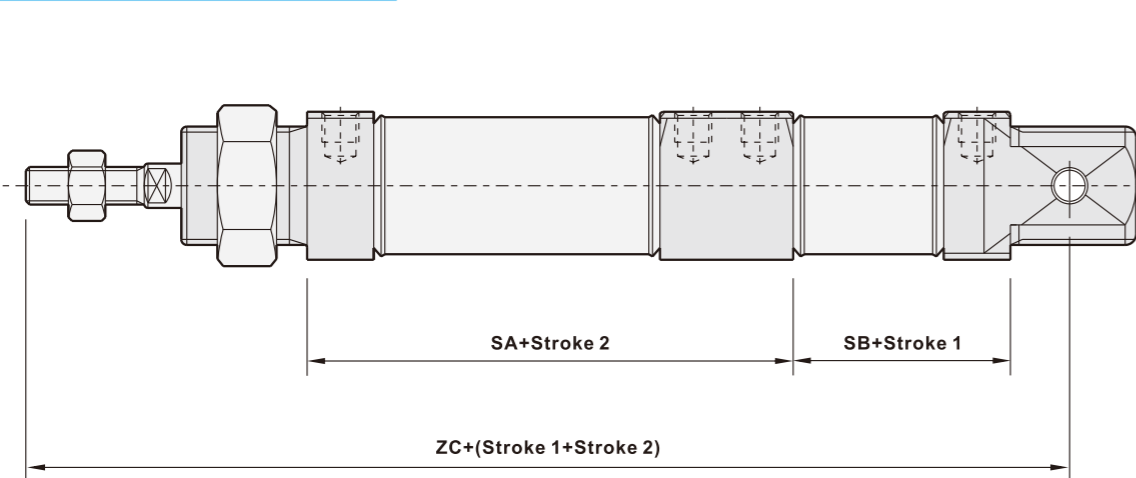
■ Dimensions

PCG Dual stroke/Single rod/Boss-cut

PCG: Dual stroke/Single rod/Boss-cut
PCF: Dual stroke/Single rod/Standard



PCF Dual stroke/Single rod/Standard



(Unit: mm)

Bore size	SA	SB	ZC	ZT
φ 32	101.5	65.5	225.5	217
φ 40	103	67	234	225

- The cylinder constructed as one cylinder in line allows double the output force.
- Cylinder stroke could be controlled in three steps.
- Applicable to position transportation, quantitative filling and flow control, right and left displacement.
- Adjustable cushions on both ends.
- Permanent magnet is built-in.

*Please refer to page 3-41 PC standard integrated clevis type for other dimensions.

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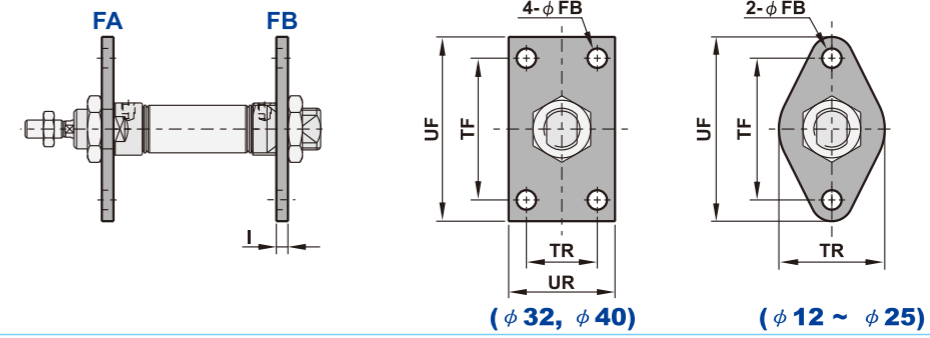
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Mounting Parts

For ISO air Cylinder

■ Dimension of mounting parts

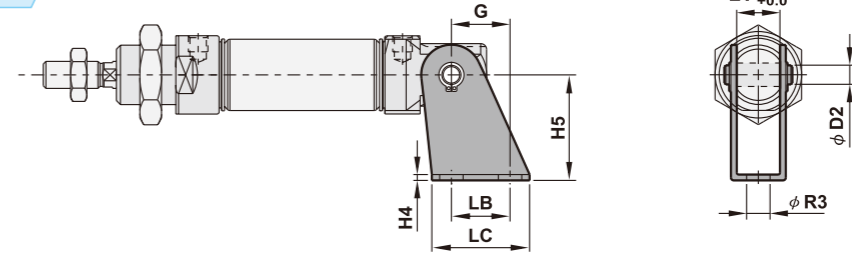
FA, FB Front & Rear flange



(Unit: mm)

Bore size	TF	TR	UF	UR	I	FB	Bore size	TF	TR	UF	UR	I	FB
φ 12	40	--	52	30	3	φ 5.5	φ 25	50	--	66	40	3	φ 6.5
φ 16	40	--	52	30	3	φ 5.5	φ 32	50	26	64	40	3	φ 7
φ 20	50	--	66	40	3	φ 6.5	φ 40	54	30	74	50	4	φ 7

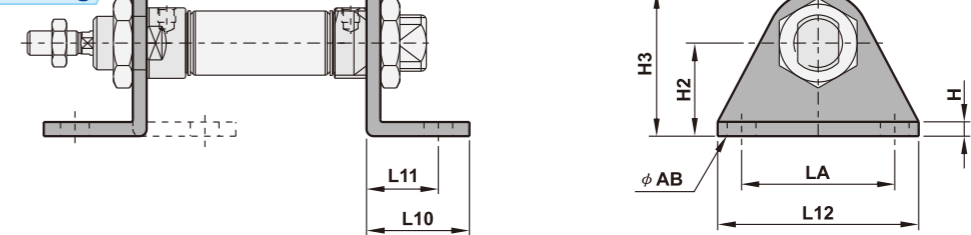
CB Female clevis



(Unit: mm)

Bore size	LB	LC	EV	H4	H5	G	D2	R3	Bore size	LB	LC	EV	H4	H5	G	D2	R3
φ 12	15	25	12	3	27	15	φ 6 ^{+0.03} / _{+0.0}	φ 6	φ 25	20	32	16	3	30	18.5	φ 8 ^{+0.04} / _{+0.0}	φ 7
φ 16	15	25	12	3	27	15	φ 6 ^{+0.03} / _{+0.0}	φ 6	φ 32	25	40	22	3	40	22.5	φ 10 ^{+0.03} / _{+0.0}	φ 9
φ 20	20	32	16	3	30	18.5	φ 8 ^{+0.04} / _{+0.0}	φ 7	φ 40	25	40	26	3	40	22.5	φ 10 ^{+0.03} / _{+0.0}	φ 9

LB Foot mounting



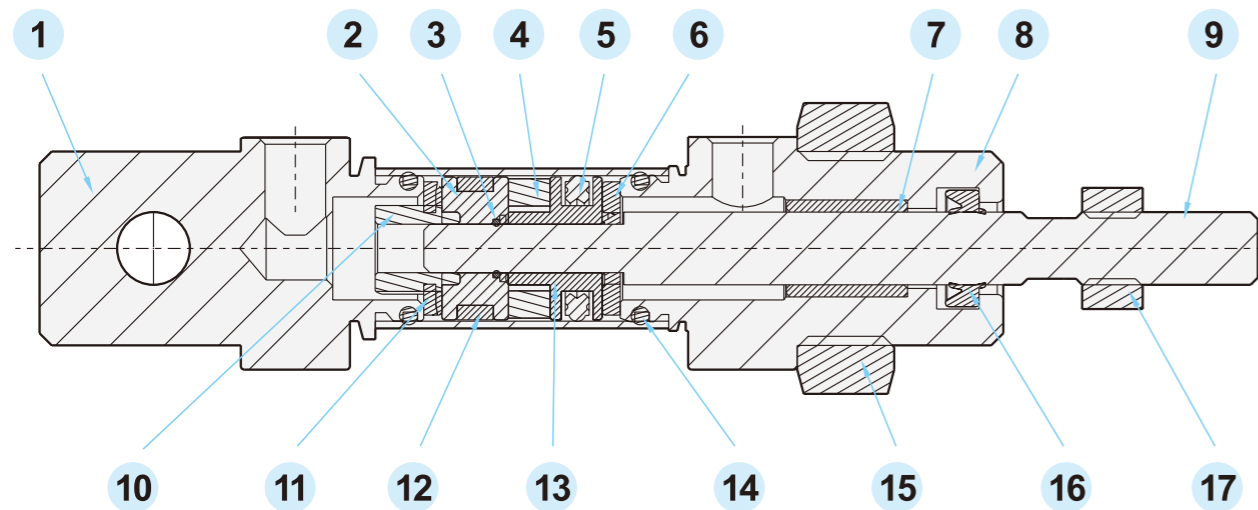
(Unit: mm)

Bore size	L10	L11	L12	LA	H	H2	H3	AB	Bore size	L10	L11	L12	LA	H	H2	H3	AB
φ 12	20.5	14	42	32	3	20	33	φ 6	φ 25	26	17	54	40	3	25	45	φ 7
φ 16	20.5	14	42	32	3	20	33	φ 6	φ 32	25	18	64	50	3.5	28	48	φ 7
φ 20	20.5	14	42	32	3	20	33	φ 6	φ 40	26	18	74	54	4	31	50	φ 7

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

Material of parts



No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Rear cover	Aluminum alloy	1	10	Nut	Fe+Ni	1
2	Wear ring	Teflon +Graphite	1	11	Rear piston	Aluminum alloy	1
3	O-ring	NBR	1	12	Barrel	SUS304	1
4	Magnet	Rubber	1	13	Front piston	Aluminum alloy	1
5	U piston seal	NBR	1	14	O-ring	NBR	2
6	Bumper	NBR	2	15	Fixing nut	SS41+Ni	1
7	Bushing	Brass	1	16	Rod seal	NBR	1
8	Front cover	Aluminum alloy	1	17	Nut	Fe+Ni	1
9	Piston rod	S45C+Cr	1				

Stroke table

Bore size	Acting	Standard stroke(mm)	Max. Standard stroke(mm)
φ 8 ~ φ 12	Double acting	5 ~ 250	300
φ 16 ~ φ 40	Double acting	5 ~ 500	900
φ 20 ~ φ 40	Single acting	25, 50	---

Memo...

Pneumatic Actuators

Pen Cylinder

PC

PCL

PMA

PMAL

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