Features

1. Identical to ISO6432 ϕ 8 ~ ϕ 25.
2. Adjustable cushion at both ends is able to absorb vibration from high speed impact and provide stable movement.
3. Built in magnet for sensor use.
4. Caps are rolled and polished, which provides stable quality.
5. Stainless steel SUS304 barrel provides stable movement and features high quality and durable life.
6. 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 **PCC** :Boss-cut **PCD** :Double rod **PCA** :Stroke adjustable 25mm **PCB** :Stroke adjustable 50mm **PCH** :Hollow double rod **PCG** :Dual stroke/Single rod/Boss-cut **PCM** :Dual stroke/Double rod **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	**8** : ϕ 8 **10**: ϕ 10 **12**: ϕ 12 **16**: ϕ 16 **20**: ϕ 20 **25**: ϕ 25 **32**: ϕ 32 **40**: ϕ 40		**Blank**:W/O cushion **C** :W/I cushion ϕ 16~ ϕ 40	**Blank**:W/O sensor **SF** :LED in front  AL-20R/N/P **ST** :LED on top  AL-21R/N/P	1 pc 2 pcs		**Blank**:W/O mounting parts **FA** :Front flange **FB** :Rear flange **CB**:Female clevis **LB**:Foot mounting		**Blank**:W/O rod end joint **Y**:Double knuckle joint **I** :Single knuckle joint **P**:Eyebolt floating joint **T**:Basic floating joint **L**:Axial foot type floating joint **F**:Flange type floating joint

*Please refer to P3-179 ~ P3-180

How to order mounting parts

ZIPC	FA	—	20
PC series	**Mounting parts**	**Bore size**	
	FA:Front flange	**8** : ϕ8	**20** : ϕ20
	FB:Rear flange	**10** : ϕ10	**25** : ϕ25
	CB:Female clevis	**12** : ϕ12	**32** : ϕ32
	LB:Foot mounting	**16** : ϕ16	**40** : ϕ40

*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		

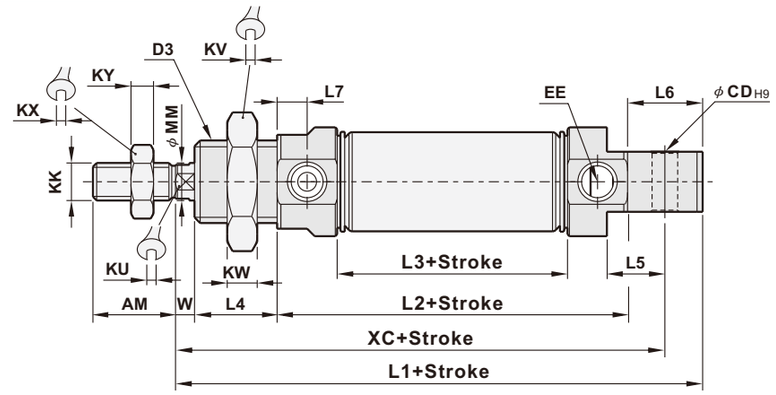
*Please refer to P3-177 ~ P3-178

Specifications

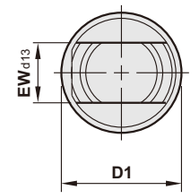
Bore size	ϕ 8	ϕ 10	ϕ 12	ϕ 16	ϕ 20	ϕ 25	ϕ 32	ϕ 40
Port size	M5xP0.8				1/8"			
Fluid	Compressed air							
Acting	Double acting or single acting							
Cushion	Adjustable type							
Operating pressure range	1.5 ~ 8.5 kgf/cm^2							
Max. operating pressure	9.5 kgf/cm^2							
Barrel material	Stainless steel SUS304							
Magnet	Built-in							
Ambient temperature	-5℃ ~ 60℃							
Piston speed	50~700mm/Sec							

Dimensions

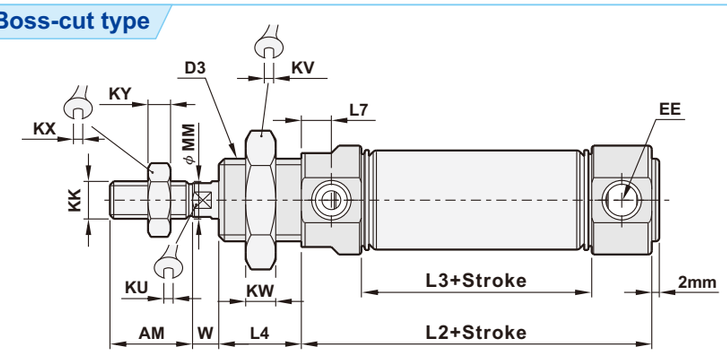
PC Standard integrated clevis type



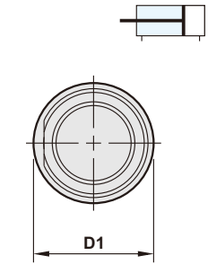
PC:ISO6432
Standard type



PCC Boss-cut type



PCC:ISO6432
Standard boss-cut type



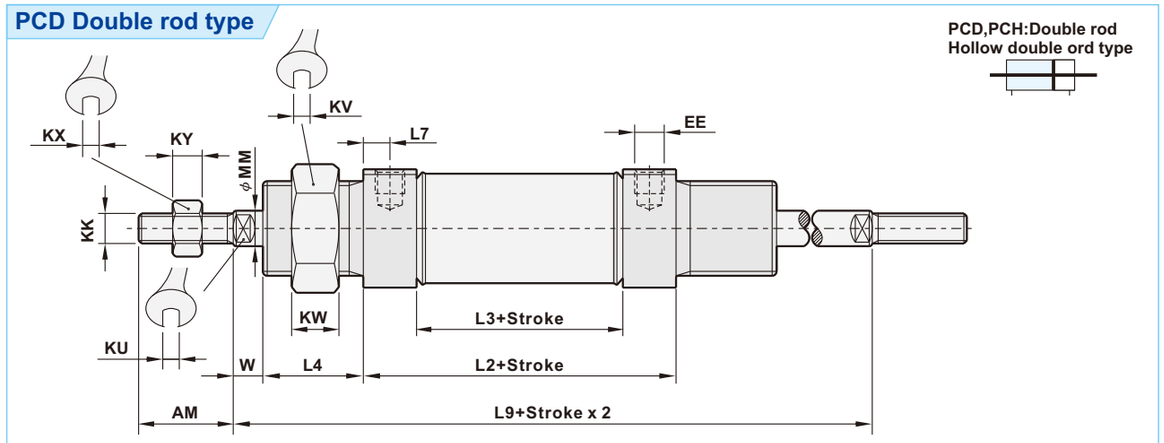
(Unit: mm)

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

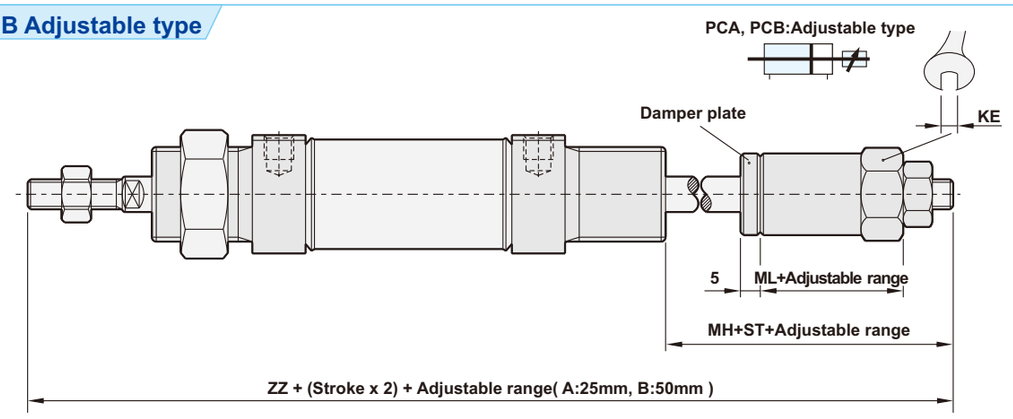
Bore size	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
ϕ **8**	M4xP0.7	3.4	17	4	7	3.2	ϕ 4	4	8	64	M5xP0.8
ϕ **10**	M4xP0.7	3.4	17	4	7	3.2	ϕ 4	4	8	64	M5xP0.8
ϕ **12**	M6xP1.0	5	22	6	10	5	ϕ 6	5	12	75	M5xP0.8
ϕ **16**	M6xP1.0	5	22	6	10	5	ϕ 6	5	12	82	M5xP0.8
ϕ **20**	M8xP1.25	7	30	6	13	6	ϕ 8	6	16	95	G 1/8
ϕ **25**	M10xP1.25	9	30	6	17	6	ϕ 10	8	16	104	G 1/8
ϕ **32**	M10xP1.25	10	32	8	17	6	ϕ 12	8	22	120	G 1/8
ϕ **40**	M12xP1.25	14	41	8	19	7	ϕ 16	11	26	125	G 1/8

Dimensions

PCD Double rod type



PCA, PCB Adjustable type



(Unit: mm)

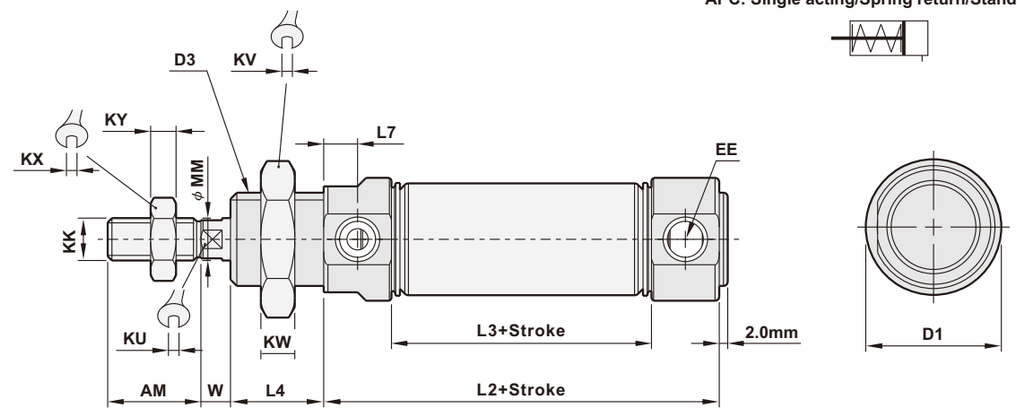
Bore size	AM	L2	L3	L4	L7	L9	EE	KU	KV	KW	KX
ϕ8	12	43.4	25.4	12	4.5	77	M5xP0.8	3.4	17	4	7
ϕ10	12	43.4	25.4	12	4.5	77	M5xP0.8	3.4	17	4	7
ϕ12	16	45.4	27.4	17	4.5	89.4	M5xP0.8	5	22	6	10
ϕ16	16	51	31	17	5	95	M5xP0.8	5	22	6	10
ϕ20	20	67	36	18	7.75	115	G 1/8	7	30	6	13
ϕ25	22	69.5	37.5	20	8	125.5	G 1/8	9	30	6	17
ϕ32	22	83	47	20	9	139	G 1/8	10	32	8	17
ϕ40	24	85	49	20	9	147	G 1/8	14	41	8	19

Bore size	KY	MM	W	KK	ZZ	MH	ML	KE
ϕ8	3.2	ϕ4	4	M4xP0.7	108	23.8	13	8
ϕ10	3.2	ϕ4	4	M4xP0.7	108	23.8	13	8
ϕ12	5	ϕ6	5	M6xP1	134.4	34	20	12
ϕ16	5	ϕ6	5	M6xP1	140	34	20	12
ϕ20	6	ϕ8	6	M8xP1.25	162	33	20	17
ϕ25	6	ϕ10	8	M10xP1.25	172.5	33	20	17
ϕ32	6	ϕ12	8	M10xP1.25	188	35	22	22
ϕ40	7	ϕ16	11	M12xP1.25	195	35	22	27

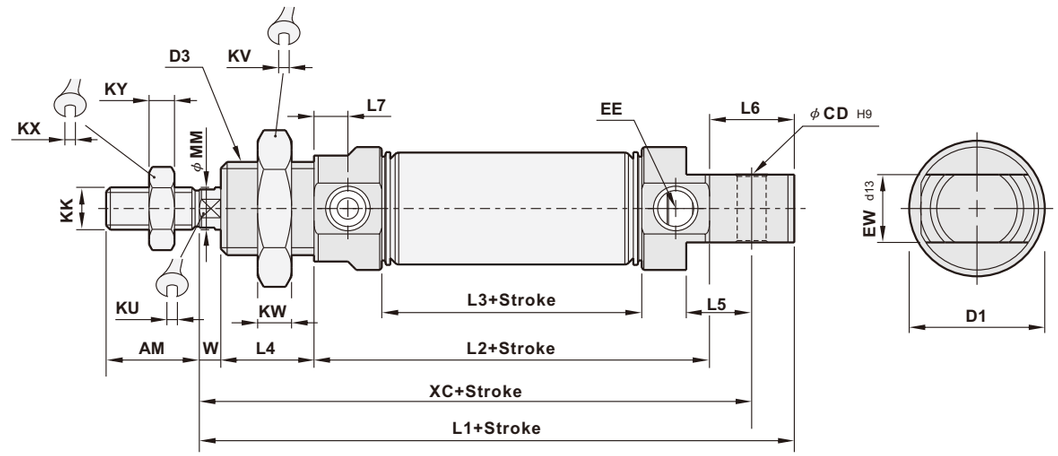
Dimensions

APCC Single acting/Spring return/Boss-cut

APCC: Single acting/Spring return/Boss-cut
APC: Single acting/Spring return/Standard



APC Single acting/Spring return/Standard



(Unit: mm)

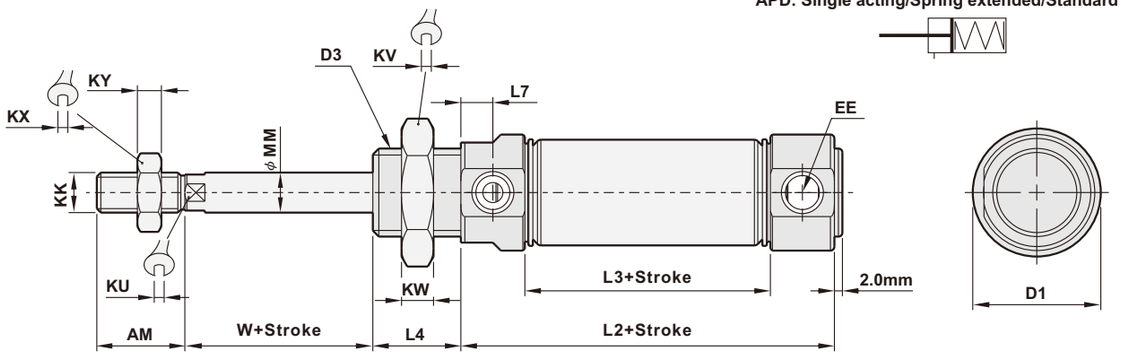
Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6
ϕ20	20	29	ϕ8	M22xP1.5	134	92	61	18	12	18
ϕ25	22	29	ϕ8	M22xP1.5	142.5	94.5	62.5	20	12	20
ϕ32	22	37	ϕ10	M27xP2.0	158	108	72	20	13.5	22
ϕ40	24	45	ϕ10	M33xP2.0	163	110	74	20	13.5	22

Bore size	L7	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
ϕ20	7.75	M8xP1.25	7	30	6	13	6	ϕ8	6	16	120	G 1/8
ϕ25	8	M10xP1.25	9	30	6	17	6	ϕ10	8	16	129	G 1/8
ϕ32	9	M10xP1.25	10	32	8	17	6	ϕ12	8	22	145	G 1/8
ϕ40	9	M12xP1.25	14	41	8	19	7	ϕ16	11	26	150	G 1/8

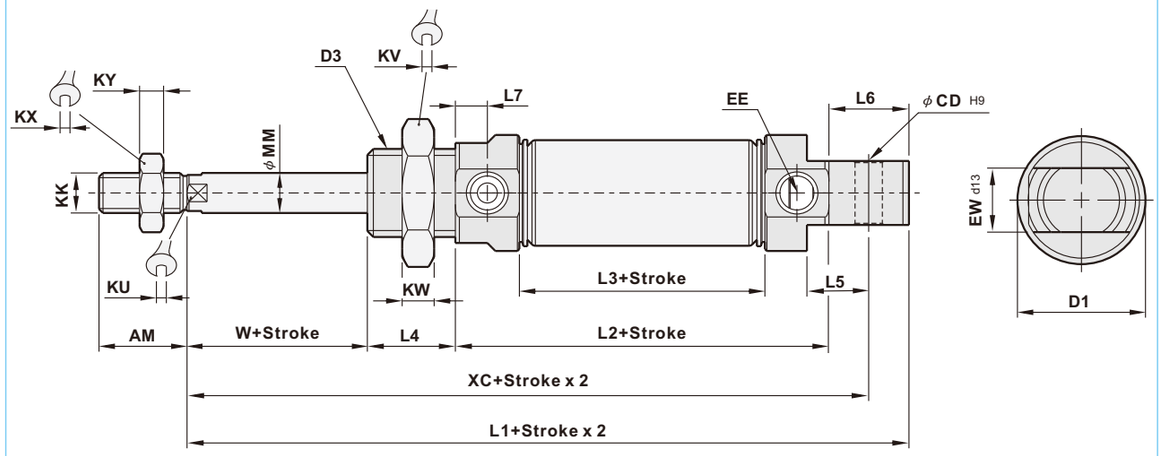
Dimensions

APDC Single acting/Spring extended/Boss-cut

APDC: Single acting/Spring extended/Boss-cut
APD: Single acting/Spring extended/Standard



APD Single acting/Spring extended/Standard



(Unit: mm)

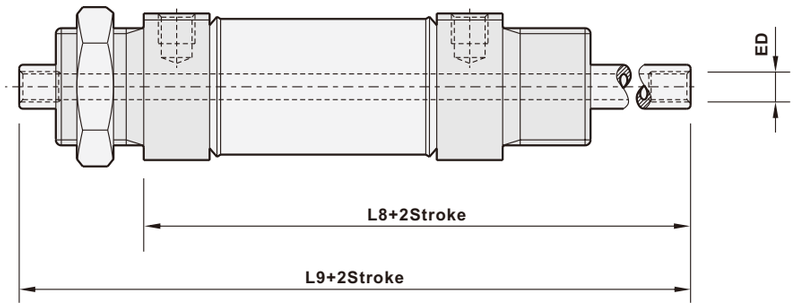
Bore size	AM	D1	CD	D3	L1	L2	L3	L4	L5	L6
φ20	20	29	φ8	M22xP1.5	134	92	61	18	12	18
φ25	22	29	φ8	M22xP1.5	142.5	94.5	62.5	20	12	20
φ32	22	37	φ10	M27xP2.0	158	108	72	20	13.5	22
φ40	24	45	φ10	M33xP2.0	163	110	74	20	13.5	22

Bore size	L7	KK	KU	KV	KW	KX	KY	MM	W	EW	XC	EE
φ20	7.75	M8xP1.25	7	30	6	13	6	φ8	6	16	120	G 1/8
φ25	8	M10xP1.25	9	30	6	17	6	φ10	8	16	129	G 1/8
φ32	9	M10xP1.25	10	32	8	17	6	φ12	8	22	145	G 1/8
φ40	9	M12xP1.25	14	41	8	19	7	φ16	11	26	150	G 1/8

Dimensions

PCH Hollow double rod type

PCD, PCH:
Double rod, Hollow double rod type



(Unit: mm)

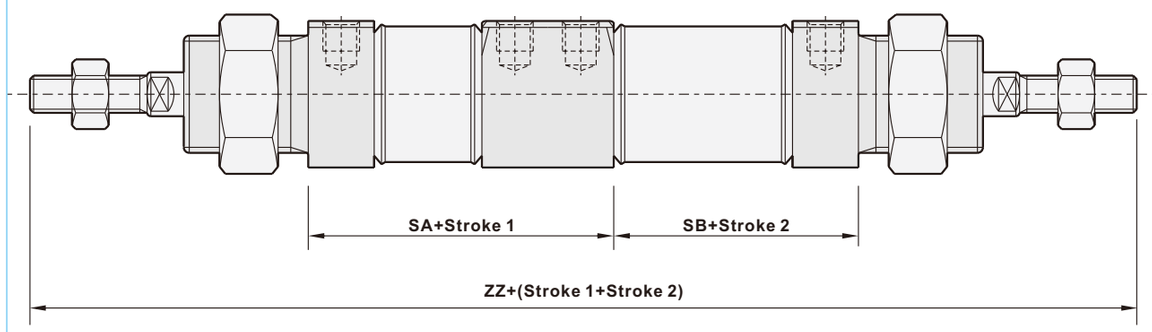
Bore size	L8	L9	ED
φ25	98	126	M5xP0.8x20
φ32	112	140	PT1/8
φ40	116	147	PT1/8

- 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

PCM:
Dual stroke/Double rod



(Unit: mm)

Bore size	SA	SB	ZZ
φ25	85.5	53.5	239
φ32	101.5	65.5	267
φ40	103	67	280

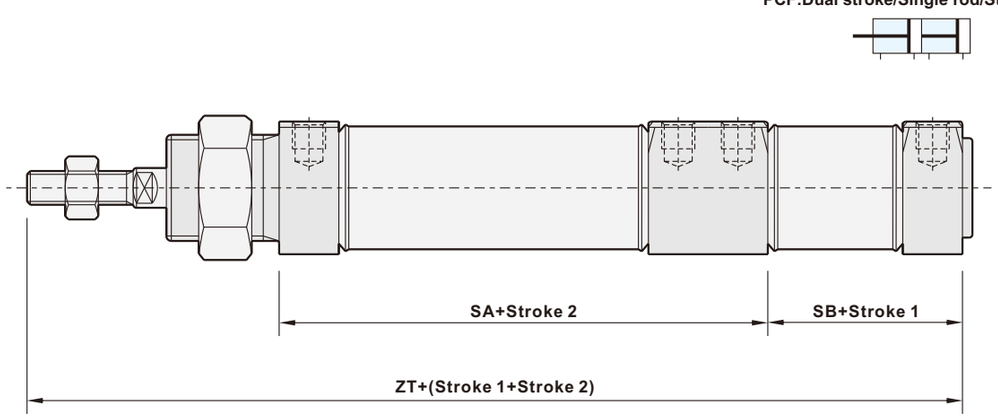
- Two cylinders are constructed as one cylinder in a shrinking back configuration.
- Cylinder stroke could be controlled in three or four steps.
- One end of piston rod is fixed, the cylinder barrel executes the movement, the cylinder must connected with flexible line connections.
- Applicable to positioning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

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

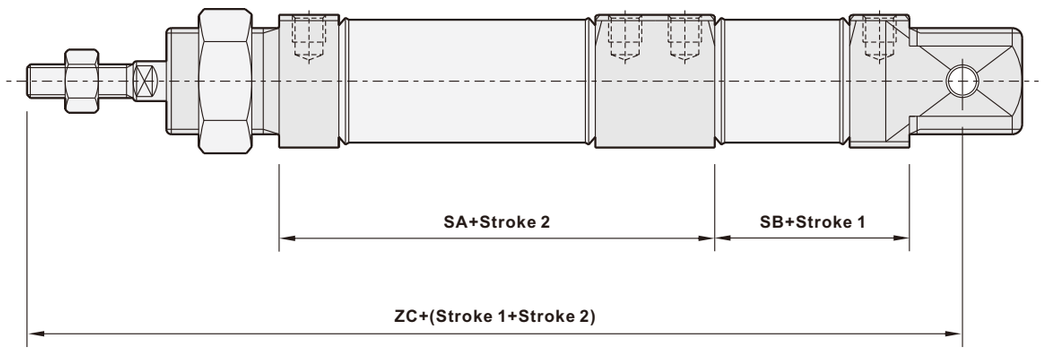
Dimensions

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)

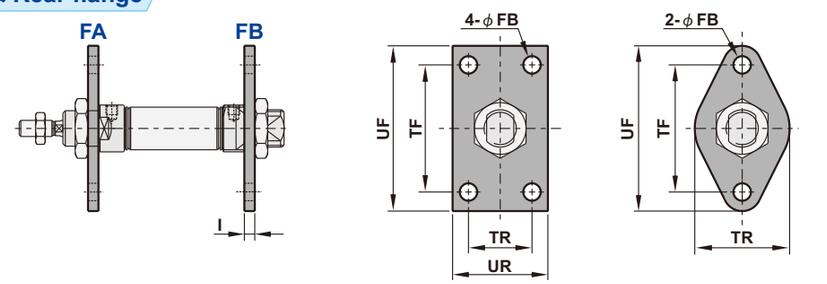
Bore size	SA	SB	ZC	ZT
ϕ32	101.5	65.5	225.5	217
ϕ40	103	67	234	225

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

- 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.

Dimension of mounting parts

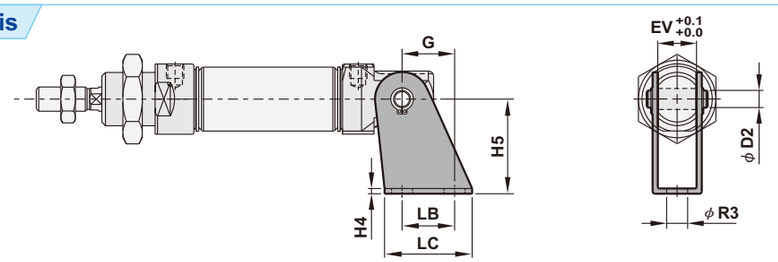
FA, FB Front & Rear flange



(Unit: mm)

Bore size	TF	TR	UF	UR	I	FB	Bore size	TF	TR	UF	UR	I	FB
ϕ12	40	--	52	30	3	ϕ5.5	ϕ25	50	--	66	40	3	ϕ6.5
ϕ16	40	--	52	30	3	ϕ5.5	ϕ32	50	26	64	40	3	ϕ7
ϕ20	50	--	66	40	3	ϕ6.5	ϕ40	54	30	74	50	4	ϕ7

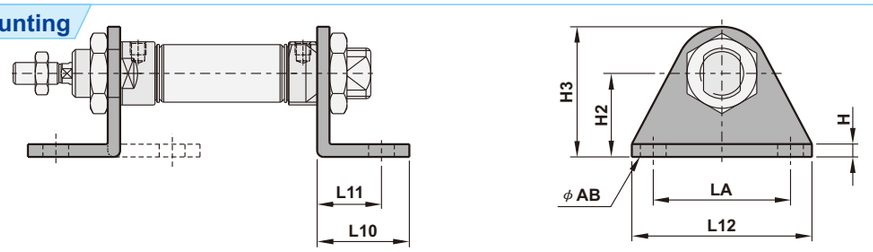
CB Female clevis



(Unit: mm)

Bore size	LB	LC	EV	H4	H5	G	D2	R3	Bore size	LB	LC	EV	H4	H5	G	D2	R3
ϕ12	15	25	12	3	27	15	$\phi 6^{+0.03}_{+0.0}$	ϕ6	ϕ25	20	32	16	3	30	18.5	$\phi 8^{+0.04}_{+0.0}$	ϕ7
ϕ16	15	25	12	3	27	15	$\phi 6^{+0.03}_{+0.0}$	ϕ6	ϕ32	25	40	22	3	40	22.5	$\phi 10^{+0.03}_{+0.0}$	ϕ9
ϕ20	20	32	16	3	30	18.5	$\phi 8^{+0.04}_{+0.0}$	ϕ7	ϕ40	25	40	26	3	40	22.5	$\phi 10^{+0.03}_{+0.0}$	ϕ9

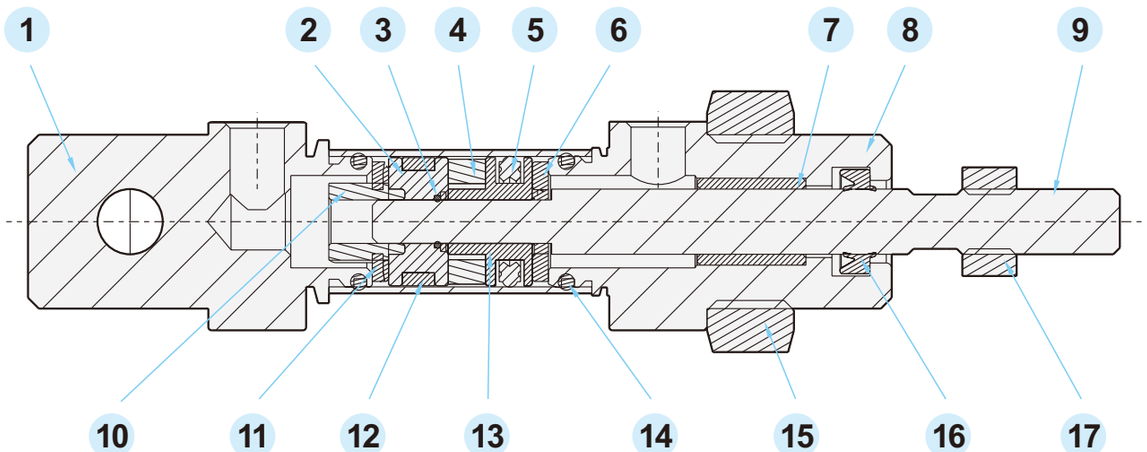
LB Foot mounting



(Unit: mm)

Bore size	L10	L11	L12	LA	H	H2	H3	AB	Bore size	L10	L11	L12	LA	H	H2	H3	AB
ϕ12	20.5	14	42	32	3	20	33	ϕ6	ϕ25	26	17	54	40	3	25	45	ϕ7
ϕ16	20.5	14	42	32	3	20	33	ϕ6	ϕ32	25	18	64	50	3.5	28	48	ϕ7
ϕ20	26	17	54	40	3	25	45	ϕ7	ϕ40	30	20	74	54	4	31.5	60	ϕ7

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)
ϕ8 ~ ϕ12	Double acting	5 ~ 250	300
ϕ16 ~ ϕ40	Double acting	5 ~ 500	900
ϕ20 ~ ϕ40	Single acting	25, 50	---

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

Memo...

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