



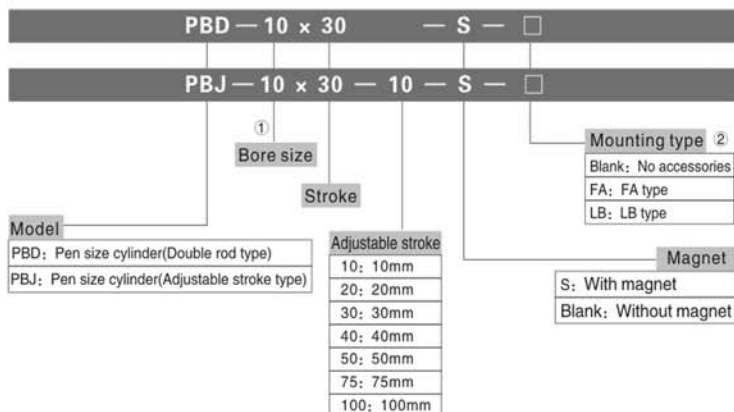
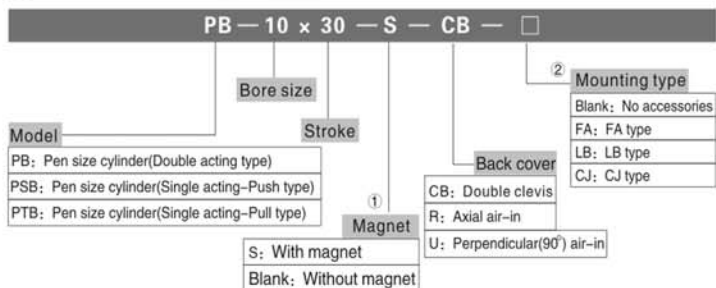
CE ISO9001

PB Series Pen size cylinder (Stainless steel)

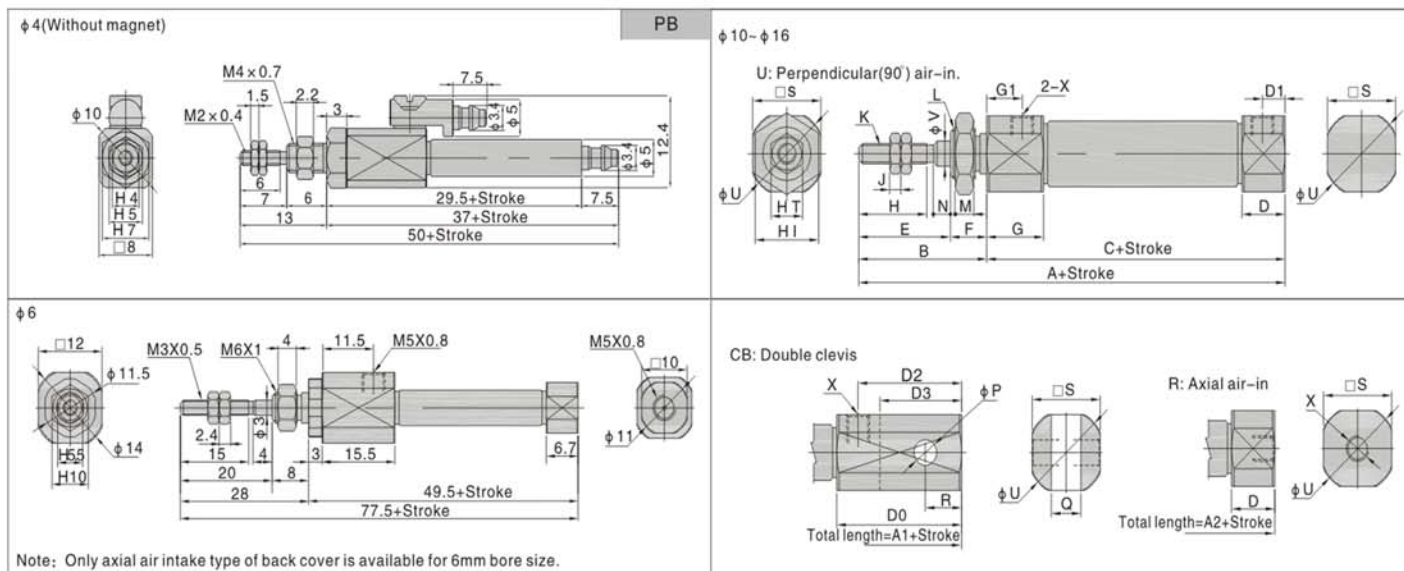
Specification

Bore size (mm)		4	6	10	12	16
Acting type	Double acting type	Double acting type				
	Single acting-Push type	Single acting-Push type Single acting-Pull type				
Fluid		Air (to be filtered by 40um filter element)				
Operating Pressure	Double acting	0.2~0.7MPa (28 ~100Psi)				
	Single acting	0.3MPa~0.7MPa (36~100Psi)				
Proof pressure		1.1MPa(160Psi)				
Temperature °C		-20~70				
Speed range		50~500 mm/s				
Stroke tolerance		+0.5 0				
Cushion type		NO cushion Bumper				
Port size		Tube M5 x 0.8				

Ordering Code



Dimensions



Bore size\Item	A	A1	A2	B	C	D	D0	D1	D2	D3	E	F	G	G1	H	I	J
10	74	87	74	28	46	9.5	22.5	5	18	13	20	8	11.5	7.5	15	11	2.2
12	74	92	74	28	46	9.5	27.5	5	23	18	20	8	11.5	7.5	15	14	4
16	76	94	76	28	48	9.2	27.2	4.8	22.8	18	20	8	11.8	7.5	15	14	4

Bore size\Item	K	L	M	N	P	Q	R	S	T	U	V	X
10	M4 x 0.7	M8 x 1.0	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

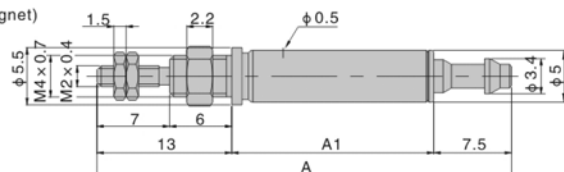


CE ISO9001

PB Series Pen size cylinder (Stainless steel)

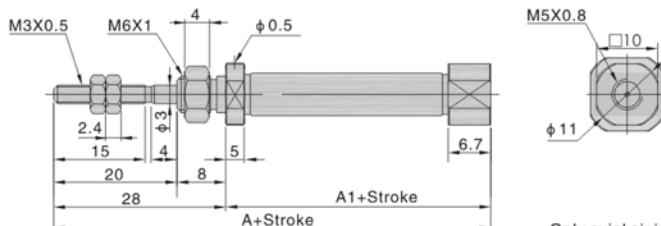
PSB

φ 4 (Without magnet)



Stroke\Item	A	A1
5	40	19.5
10	49	28.5
15	58	37.5
20	67	46.5

φ 6

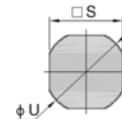
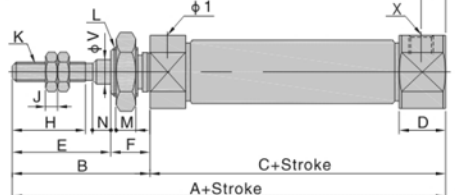
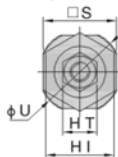


Stroke\Item	A	A1
5-15	70	42
16-30	79	51
31-45	83	55
46-60	97	69

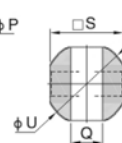
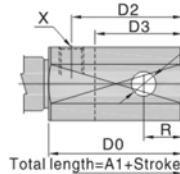
Only axial air intake type of back cover is available for 6mm bore size.

φ 10 ~ φ 16

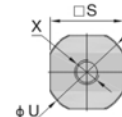
U: Perpendicular (90°) air-in.



CB: Double clevis



R: Axial air-in

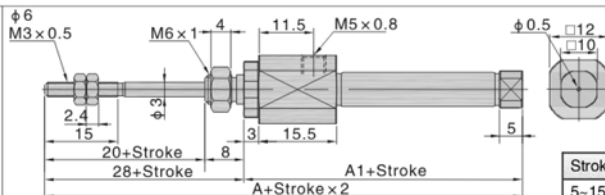


Item Bore size	A				A1				A2				B	C			
Stroke	5-15	16-30	31-45	46-60	5-15	16-30	31-45	46-60	5-15	16-30	31-45	46-60		5-15	16-30	31-45	46-60
10	73.5	81	93	105	86.5	94	106	118	73.5	81	93	105	28	45.5	53	65	77
12	73.5	81	93	105	91.5	99	111	123	73.5	81	93	105	28	45.5	53	65	77
16	74.5	83	95	107	92.5	101	113	125	74.5	83	95	107	28	46.5	55	67	79

Item Bore size	D	D0	D1	D2	D3	E	F	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	X
10	9.5	22.5	5	18	13	20	8	15	11	2.2	M4 x 0.7	M8 x 1.0	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	9.5	27.5	5	23	18	20	8	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	9.2	27.2	4.8	22.8	18	20	8	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

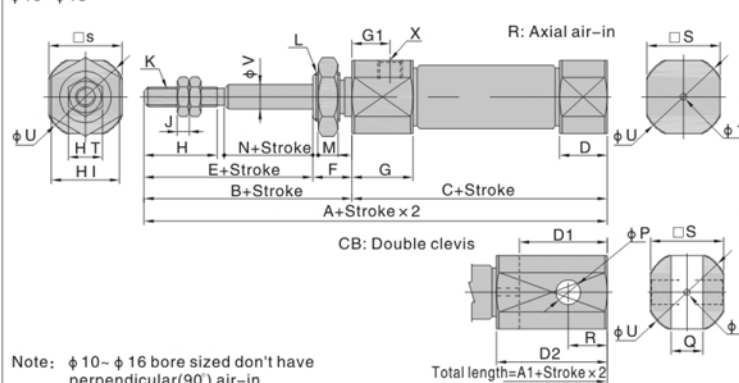
PTB



Note: Only axial air intake type of back cover is available for 6mm bore size.

Item Bore size	A				A1			
Stroke	5-15	16-30	31-45	46-60	5-15	16-30	31-45	46-60
5-15	82	54						
16-30	91	63						
31-45	95	67						
46-60	109	81						

φ 10 ~ φ 16



Note: φ 10 ~ φ 16 bore sized don't have perpendicular (90°) air-in.

Item Bore size	B	C				D	D1	D2
Stroke		5-15	16-30	31-45	46-60			
10	28	48.5	56	68	80	5	13	18
12	28	48.5	56	68	80	5	18	23
16	28	49.5	58	70	82	5	18	23

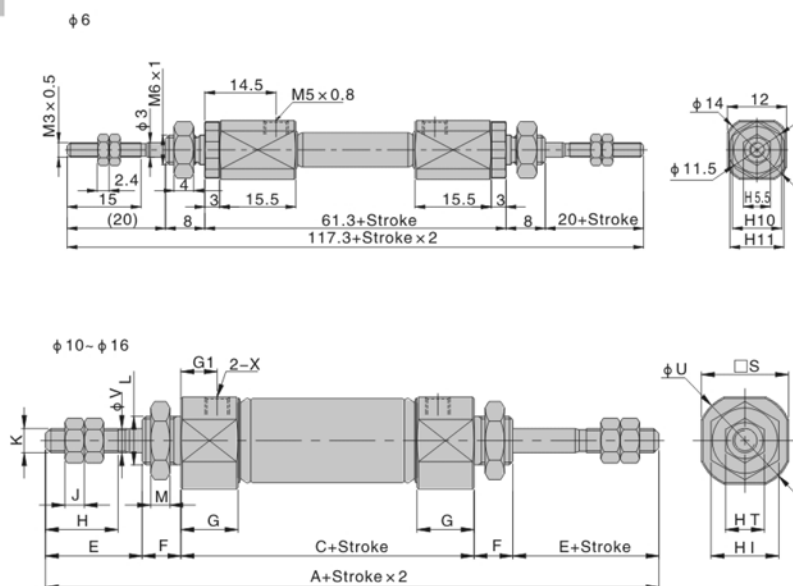
Item Bore size	E	F	G	G1	H	I	J	K	L
10	20	8	11.5	7.5	15	11	2.2	M4 x 0.7	M8 x 1.0
12	20	8	11.5	7.5	15	14	4	M5 x 0.8	M10 x 1.0
16	20	8	11.8	7.5	15	14	4	M5 x 0.8	M10 x 1.0

Item Bore size	M	N	P	Q	R	S	T	U	V	X
10	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

Remark:
The dimensions of
magnet type cylinder
are the same as non-
magnet type cylinder.

PB Series Pen size cylinder (Stainless steel)

PBD



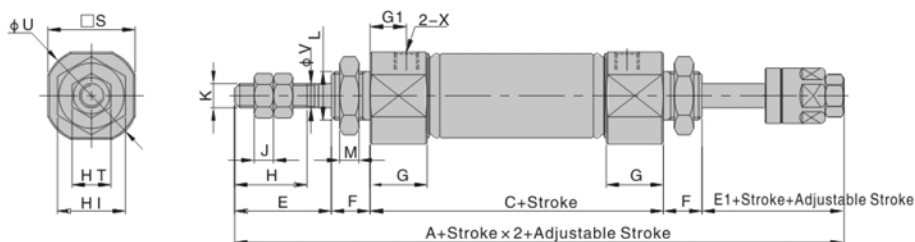
Bore size\Item	A	C	E	F	G	G1	H	I	J
10	104	48	20	8	11.5	7.5	15	11	2.2
12	104	48	20	8	11.5	7.5	15	14	4
16	106.6	50.6	20	8	11.8	7.5	15	14	4

Bore size\Item	K	L	M	S	T	V	X
10	M4 x 0.7	M8 x 1.0	4	12	7	4	M5 x 0.8
12	M5 x 0.8	M10 x 1.0	4	15	8	5	M5 x 0.8
16	M5 x 0.8	M10 x 1.0	4	18	8	5	M5 x 0.8

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

PBJ

Φ 10~Φ 16



Bore size/Item	A	C	E	E1	F	G	G1	H	I	J
10	100.5	48	20	16.5	8	11.5	7.5	15	11	2.2
12	101	48	20	17	8	11.5	7.5	15	14	4
16	103.6	50.6	20	17	8	11.8	7.5	15	14	4

Bore size/Item	K	L	M	S	T	V	X
10	M4 x 0.7	M8 x 1.0	4	12	7	4	M5 x 0.8
12	M5 x 0.8	M10 x 1.0	4	15	8	5	M5 x 0.8
16	M5 x 0.8	M10 x 1.0	4	18	8	5	M5 x 0.8

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.