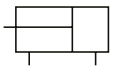
ACD series

ACD B32-S30

Features

- Aluminium tube
- WIth built-in magnet (Standard)
- Square type rod cover enables direct mounting.
- Space saving by mounting without bracket.
- Front mounting & bottom mounting.

Symbol



Double Acting / Single Rod

How to Order

ACD ① B ② 32 ③ - S ④ 30 ⑤ ⑥ ⑦

① Series

ACD	Direct mount type cylinder
ACDA	Direct mount type cylinder (Air cushion)

② Mounting style

B	Bottom mounting
F	Front mounting

③ Bore size

20	25	32	40
Ø20	Ø25	Ø32	Ø40

④ Cylinder stroke

Bore size	Standard stroke	Max. stroke
Ø20	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	650
Ø25		
Ø32		
Ø40		

※ Other intermediate strokes available on request.
※ Refer to page [1]-133, for specifications about custom-made rod ends.

⑤ Rod end attachment

Nil	Rod end nut(Standard):1pc
I	Single knuckle joint
Y	Double knuckle joint

※ Refer page [1]-25 for detail information.

⑥ Auto switch

Reed A/S	Model	Solid State A/S	Model
Nil	None	Nil	None
C72	D-C72K	H7A1	D-H7A1K
C73	D-C73K	H7A2	D-H7A2K
C76	D-C76K	H7B	D-H7BK
C80	D-C80K		

※ Only for auto switch attached type.
※ Refer Auto Switch Catalogue for more information.

⑦ Number of auto switches

Nil	2 pcs
1	1 pc
N	N pcs (N: 3, 4, 5...)

※ Only for auto switch attached type.

Specifications

Action	Double acting single rod
Fluid	Air
Proof pressure	15kgf/cm² (1.5MPa)
Max. operating pressure	9.9kgf/cm² (0.99MPa)
Min. operating pressure	0.5kgf/cm² (0.05MPa)
Ambient & fluid temperature	5℃ ~ 60℃
Operating piston speed	50~750mm/sec
Cushion	Rubber bumper(Standard)
Lubrication	Not required
Tolerance of thread	KS class 2
Tolerance of stroke	+1.0 0
Mounting style	Bottom mounting, Front mounting

Mass

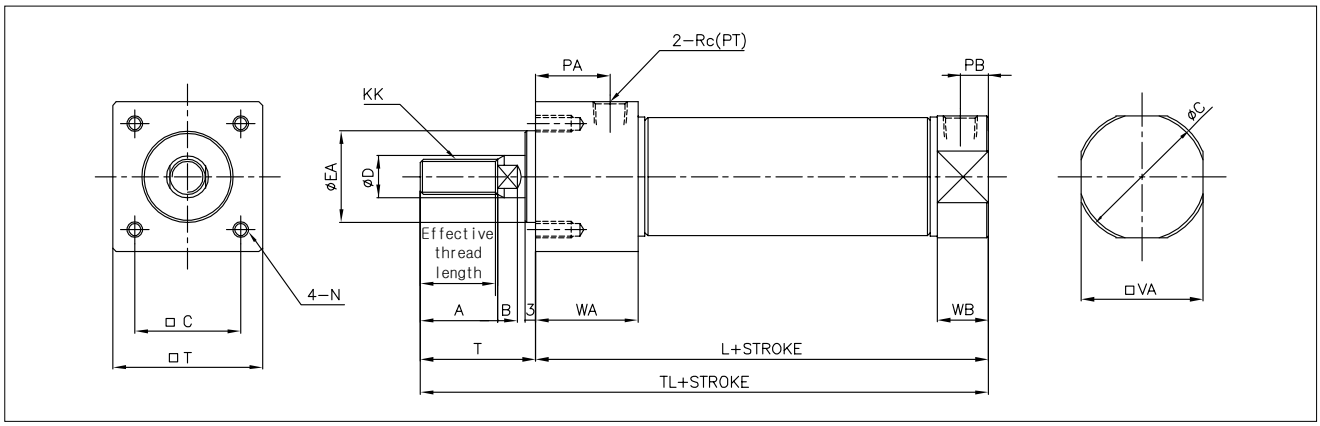
Unit : kg

Bore size		Ø20	Ø25	Ø32	Ø40
Basic mass	Bottom mounting	0.14	0.23	0.32	0.63
	Front mounting	0.14	0.22	0.32	0.62
Additional mass of each 50mm stroke		0.04	0.07	0.09	0.14

Calculation:

EX.) ACD-B32-S100
Basic mass: 0.32(Ø32) / Additional mass: 0.09/50
Cylinder stroke:100mm
0.32 + 0.09/50 X 100 = 0.5kg

Dimensions-Front Mounting (F)

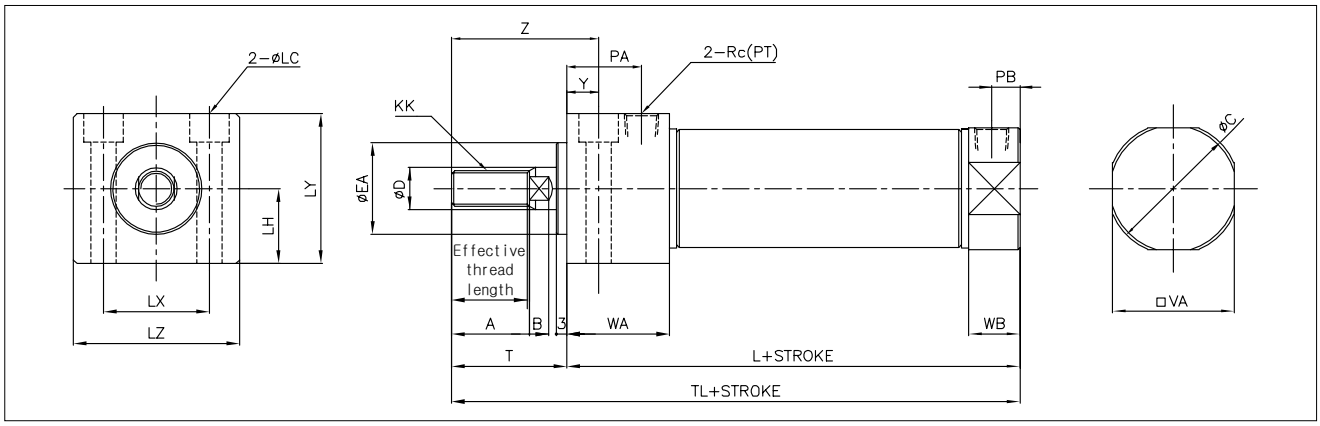


Unit : mm

Bore size	Effective thread length	A	B	□C	ØC	ØD	ØEA	KK	L	N	PA	PB
Ø20	15.5	18	5.0	22	27	10	20 $^{+0}_{0.033}$	M8X1.25	76	M5X0.8 Depth 9	22	8
Ø25	19.5	22	5.5	26	33	12	26 $^{+0}_{0.033}$	M10X1.25	76	M6X1.0 Depth 11	22	8
Ø32	19.5	22	5.5	30	37.5	12	26 $^{+0}_{0.033}$	M10X1.25	78	M6X1.0 Depth 11	22	8
Ø40	21.0	24	7.0	36	46.5	16	32 $^{+0}_{0.039}$	M14X1.25	104	M8X1.25 Depth 14	27	11

Bore size	Rc(PT)	T	□T	TL	□VA	WA	WB
Ø20	1/8	27	30.4	103	24	29	15
Ø25	1/8	31	36.4	107	30	29	15
Ø32	1/8	31	42.4	109	34.5	29	15
Ø40	1/4	34	52.4	138	46.5	37.5	21

Dimensions-Bottom Mounting (B)



Unit : mm

Bore size	Effective thread length	A	B	ØC	ØD	ØEA	KK	L	ØLC	LH	LX
Ø20	15.5	18	5.0	27	10	20 $^{+0}_{0.033}$	M8X1.25	76	Ø5.5, Ø9.5 Depth 6.5	15	21
Ø25	19.5	22	5.5	33	12	26 $^{+0}_{0.033}$	M10X1.25	76	Ø6.6, Ø11 Depth 7.5	18	25
Ø32	19.5	22	5.5	37.5	12	26 $^{+0}_{0.033}$	M10X1.25	78	Ø9, Ø14 Depth 10	21	30
Ø40	21.0	24	7.0	46.5	16	32 $^{+0}_{0.039}$	M14X1.25	104	Ø11, Ø17 Depth 12.5	26	38

Bore size	LY	LZ	PA	PB	Rc(PT)	T	TL	□VA	WA	WB	Y	Z
Ø20	30.4	33.5	22	8	1/8	27	103	24	29	15	12	39
Ø25	36.4	39	22	8	1/8	31	107	30	29	15	12	43
Ø32	42.4	47	22	8	1/8	31	109	34.5	29	15	12	43
Ø40	52.4	58.5	27	11	1/4	34	138	46.5	37.5	21	15	49