

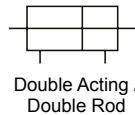
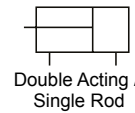
ACS4 series



Features

- Aluminum tube
- With built-in magnet (Standard).
- With non-lubricated seal.
- Improved bush decreases deflection and improves lateral load resistance.
- Easy maintenance with screw fastening.
- Rod seal is easy to be replaced

Symbol



How to Order

ACS4A - N LB 32 - S 100

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Series

ACS4A	Double acting single rod small cylinder (With air cushion)
ACS4AW	Double acting double rod small cylinder (With air cushion)

② Lubrication

N	Non lubricated (Standard)
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③ Mounting style

B	Standard	CD	Integrated clevis
LB	Foot	TR	Rod side trunnion
FA	Rod side flange	TH	Head side trunnion
FB	Head side flange	BC	Boss-cut
CA	Single clevis	BF	Boss-cut flange
CB	Double clevis	BT	Boss-cut trunnion

④ Bore size

20	25	32	40
Ø20	Ø25	Ø32	Ø40

⑤ Cylinder stroke

Bore size	Standard stroke	Max. stroke
Ø20	10, 15, 20, 25, 30, 35,	1000
Ø25	40, 45, 50, 60, 75, 100,	1500
Ø32	125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 550, 600	2000
Ø40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	2000

※ Other intermediate strokes is available upon request.

※ Refer to page [1]-133, for Specification about custom-made rod ends.

⑥ Bellows

	Material	Max. ambient temperature
Nil	Without bellows	
J	Nylon Tarpaulin	60℃
K	Neoprene cloth	110℃

⑦ Rod end attachment

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

⑧ 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		

※ Refer to Auto Switch Catalogue for more information.

⑨ Number of auto switches

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

※ Only for auto switch attached type.

⑩ Special order

Nil	None
TS	Multi-step stroke cylinder(Single rod)
TW	Multi-step stroke cylinder(Double rod)
TD	Tandem cylinder
ASJ	Stroke adjustable type (in forward direction within 25mm)
BSJ	Stroke adjustable type (in forward direction within 50mm)
SV	Heat resistant cylinder
SS	Stainless steel piston rod



Specifications

Type	Non-Lubricated	
	Double acting, Single rod	Double acting, Double rod
Fluid	Air	
Proof pressure	15kgf/cm ² (1.5MPa)	
Max. operating pressure	10kgf/cm ² (1.0MPa)	
Min. operating pressure	0.5kgf/cm ² (0.05MPa)	0.8kgf/cm ² (0.08MPa)
Ambient & fluid temperature	5 ~ 60 °C	
Operating piston speed	50 ~ 1000mm/s	
Cushion	Air cushion	
Tolerance of thread	KS class 2	
Tolerance of stroke	~250 ST : $\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	

Accessory

Mounting style		Standard	Axial foot	Rod side flange	Head side flange	Integrated clevis	Single clevis	²⁾ Double clevis	Rod side trunnion	Head side trunnion	Boss cut	Boss cut flange	Boss cut trunnion
Standard	Mounting screw	●(1pc)	●(2pcs)	●(1pc)	●(1pc)	-	-	-	¹⁾ ●(1pc)	¹⁾ ●(1pc)	●(1pc)	●(1pc)	●(1pc)
	Rod end nut	●	●	●	●	●	●	●	●	●	●	●	●
	Clevis pin	-	-	-	-	-	-	³⁾ ●	-	-	-	-	-
Option	Single knuckle joint	●	●	●	●	●	●	●	●	●	●	●	●
	²⁾ Double knuckle joint	●	●	●	●	●	●	●	●	●	●	●	●
	Bellows	●	●	●	●	●	●	●	●	●	●	●	●

- ※ 1)Trunnion nut is included in the rod side trunnion and head side trunnion.
 ※ 2)Pin and snap ring are included in double clevis and double knuckle joint.
 ※ 3)Snap ring is included in clevis pin.
 ※ Double rod type cylinder includes 2pcs rod end nuts.

Mounting Style

Mounting style	Minimum order quantity	Bore size(mm)			Remarks
		Ø20	Ø25	Ø32	
Axial foot	1set (2pcs)	LB 20	LB 25/32		LB 40 (Round type) Foot 2pcs, Nut 1pc
Flange	1pc	FA/FB 20	FA/FB 25/32		FA/FB 40 (Round type) Flange 1pc, Nut 1pc
Single clevis	1pc	CA 20	CA 25/32		CA 40 (Round type) Single clevis 1pc
Double clevis	1pc	CB 20	CB 25/32		CB 40 (Round type) Double clevis 1pc, Clevis pin 1pc, Snap ring 2pcs
Trunnion	1pc	TC 20	TC 25/32		TC 40 (Round type) Trunnion 1pc, Trunnion nut 1pc

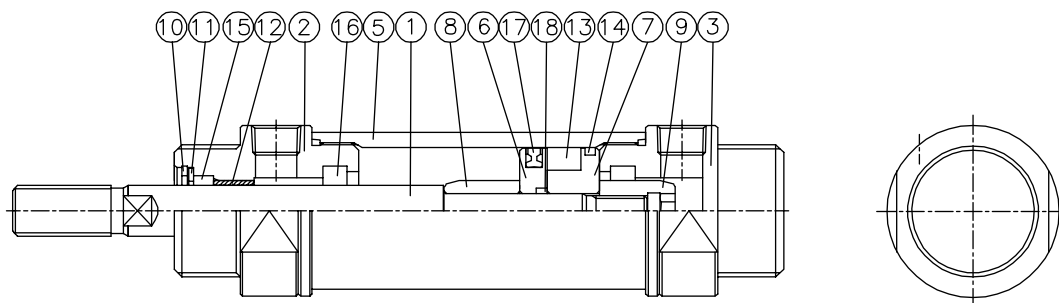
Rod End Attachment

Bore size(mm)	Ø20	Ø25, Ø32	Ø40
Accessory			
Single Knuckle Joint	I20	I25/32	I40
Double Knuckle Joint	Y20	Y25/32	Y40

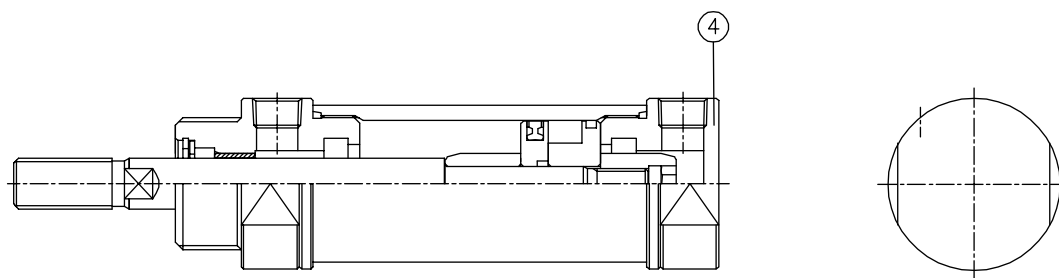
- ※ Rod end attachment of ACS2 40 and that of ACM 40 are the same.
 ※ Rod end attachment is the same as ACS2 series. Refer page [1]-37 for more information.

Structure

Standard (Non lubricated) ACS4A-N B



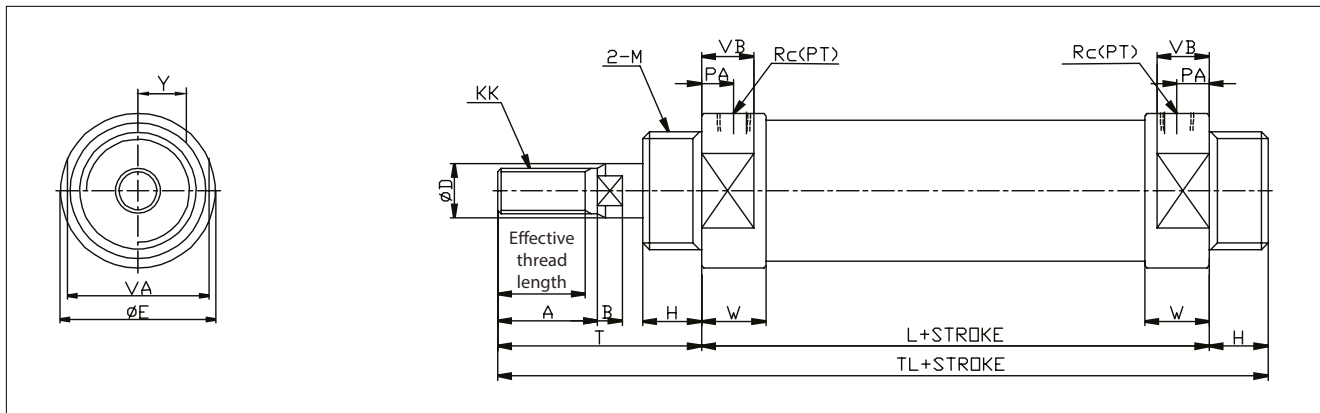
Boss-cut ACS4A-N BC



Part no.	Parts	Material	Remark
1	Rod	Carbon Steel	Hard Chromium Plating
2	Rod Cover	AL Alloy	White Anodizing
3	Head Cover	AL Alloy	White Anodizing
4	Head Cover	AL Alloy	Boss Cut Type
5	Cylinder Tube	AL Alloy	-
6	Piston	AL Alloy	-
7	Magnet Holder	AL Alloy	-
8	Cushion Ring	AL Alloy	-
9	Cushion Ring Nut	AL Alloy	-
10	Stop Ring	Carbon Tool Steel	-
11	Packing Wash	Rolled Steel	-
12	Bush	Sintered Metal	-
13	Magnet	-	-
14	Wearing	Resin	-

Part no.	Parts	Material	Bore size			
			Ø20	Ø25	Ø32	Ø40
15	Rod Packing	NBR	DRP8	DRP10	DRP12	DRP14
16	Cushion Packing	NBR	-	-	-	-
17	Piston Packing	NBR	OPA20	OPA25	OPA32	OPA40
18	Rod O-Ring	NBR	S6	S6	S8	S10

Dimensions-Standard (B)



Unit : mm

Bore size	Effective thread length	A	B	ØD	ØE	H	KK	L	M	PA	Rc(PT)	T	TL
Ø20	15.5	18	5.0	8	28	13	M8X1.25	62	M20X1.5	8	1/8	41	116
Ø25	19.5	22	5.5	10	34	13	M10X1.25	62	M26X1.5	8	1/8	45	120
Ø32	19.5	22	5.5	12	38	13	M10X1.25	64	M26X1.5	8	1/8	45	122
Ø40	21.0	24	7.5	14	50	16	M14X1.50	88	M32X2.0	11	1/4	50	154

Bore size	VA	VB	W	Y
Ø20	24	12	15	8.5
Ø25	30	12	15	10
Ø32	32	12	15	12
Ø40	46	18	21	15.5

※ Except dimensions ØD and Y, all of the dimensions above are the same as ACS2 series.
(Refer to ACS2 series.)

Pneumatic
Cylinder

Reference
Data

AJP

KGUA

ACP

ACD

ACS2

ACS3

ACS4

ACS5

ACR

ACM

ACL

ACX

KLC

KLCS

AF, ADF

AFG

FM, FMD

Custom-
Made
Rod Ends

Custom-
Made
Tie Rods

KBP

CCTS