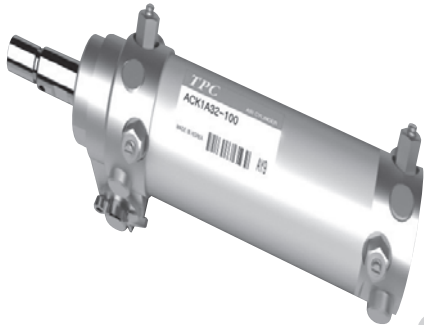


Series **ACK1**

Clamp Cylinder

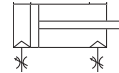
Bore Size(mm) : Ø32, Ø80



PAT

- POSSIBLE TO UTILIZE IN STRONG MAGNETIC SYSTEM CIRCUMSTANCES
- LIGHT AND COMPACT
- NON-FUEL TYPE AND DISASSEMBLY AVAILABLE
- SPEED CONTROLLER BUILT-IN
- OPTIONAL SELECTION OF PIPING DIRECTION AVAILABLE
- BELLOWS UNNECESSARY BY APPLICATION OF STRONG COIL SCRAPER
- POSSIBLE TO MOUNT VARIOUS AUTO SWITCHES
 - Common Type (W5, W3)
 - Low Magnetic System type (W2P)
 - Strong Magnetic System

Symbol



How to Order

A **CKP1** **A** **32** — **100** **Y** — **W2P** **Z**

1 2 3 4 5 6 7 8 9

1 Actuator

2 Magnet

Bore Size(mm) Ø32

Blank : Common magnet equipped (W2P, W5)

P : Strong magnet built-in type (for W2P)

Bore Size(mm) Ø80

Blank : Magnet equipped (W2P, W5)

P : Strong magnet built-in type (for W2P)

G : Common magnet equipped

3 Clevis Width

Bore Size	A	B	C
Ø32	16.5 ^{+0.2} _{-0.2}	—	—
Ø80	16.5	19.5	28

4 Bore Size(mm)

32 : 32mm, 80 : 80mm

5 Stroke(mm)

32 : 50,75,100,125,150,200,250,300

80 : 50,75,100,125,150,175,200,250,300

6 Rod End Fitting

Blank : None

Y : Double knuckle joint

7 Additional Symbol

B : Limit switch fittings attached

D : Cam mount (Ø32 is not available)

19 : Foot

8 Auto Switch

Blank : None

W5 : Grommet

DC24V, AC100V, Light ON Lighting

W6 : AC100V OFF Lighting

W7 : DC24V, AC100V ON Lighting

W2P : DC24V ON Lighting

W3 : W3

9 Lead Wire Length

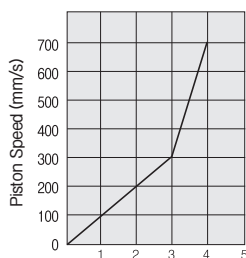
L : 3m (W5 included)

Z : 5m (W5 is not relevant)

※ 0.5mm is standard for W5.

Speed Controller (Ø32)

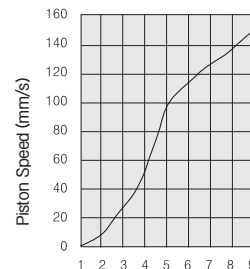
Needle Rev Count and Cylinder Running Speed



Speed Controller · Needle Rev Count

Condition : Out-side, Pressure supplied 5kgf/cm², for unloaded condition

Speed Controller (Ø80)



Speed Controller · Needle Rev Count

Specifications

Items	Content
Internal Diameter/Stroke	Ø32, Ø80 / 50 ~ 300mm
Applied Fluid	Air
Guaranteed Pressure Resistance	1.5MPa(15kgf/cm ²)
Maximum Pressure Applied	1.0MPa(9.9kgf/cm ²)
Minimum Pressure Applied	0.05MPa(0.5kgf/cm ²)
Ambient and Applied Fluid Temperature	5~60°C
Applied Piston Speed	50~500mm/s
Cushion	Both Side Air Cushion
Lubrication	Non-Lube
Stroke Tolerance	0 ~ 1.0mm
Speed Controller	Built-in
Attachment Supporting Type (Standard Type)	※Double Clevis (Pin and Separate Pin Attached)

Accessories (Option)

Name of component	Item Number
Limit Switch Attaching Board	ACKA080-48-001
Cam Mount	ACKA080-42-001
Foot	ACKA080-19-001

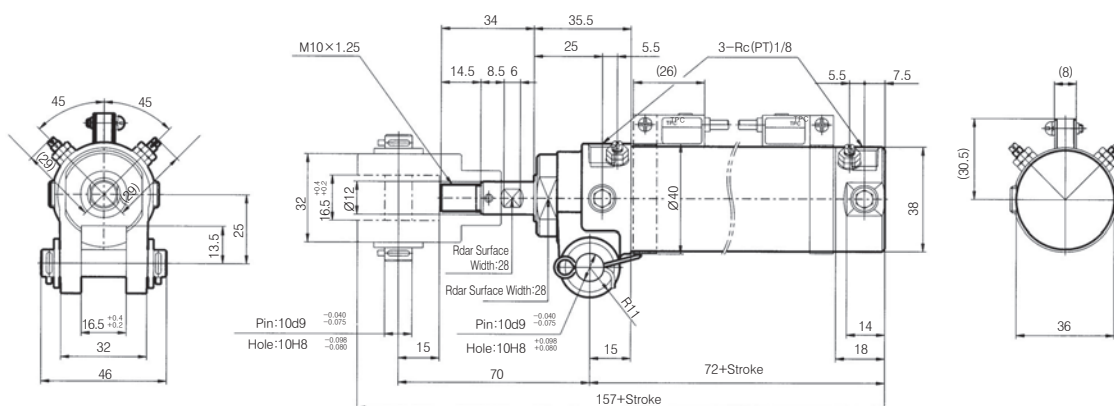
Weight Table

(Unit : kg)

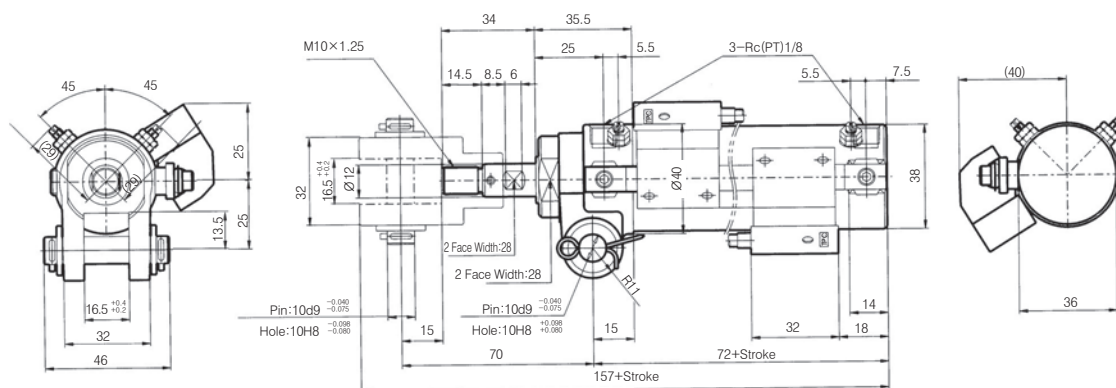
Bore Size		Ø32	Ø80
Cylinder	Basic Weight	0.42	3.86
	Increased Weight Per 25 Stroke	0.06	0.13
Double Knuckle Joint (Pin Inclusive)		0.21	0.6

Dimensions

Standard Type/ACK1 (Ø32)



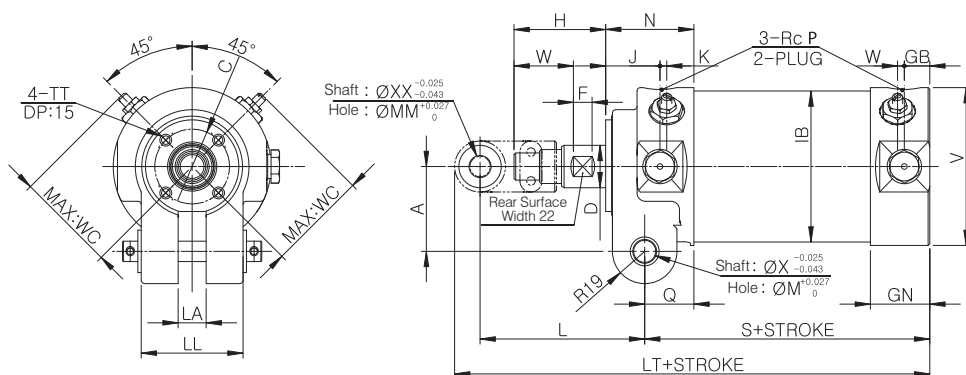
Auto Switch type ACK P1 (Ø32)



Series ACK1

Dimensions

ACK*1*80-**-** TYPE



(Unit : mm)

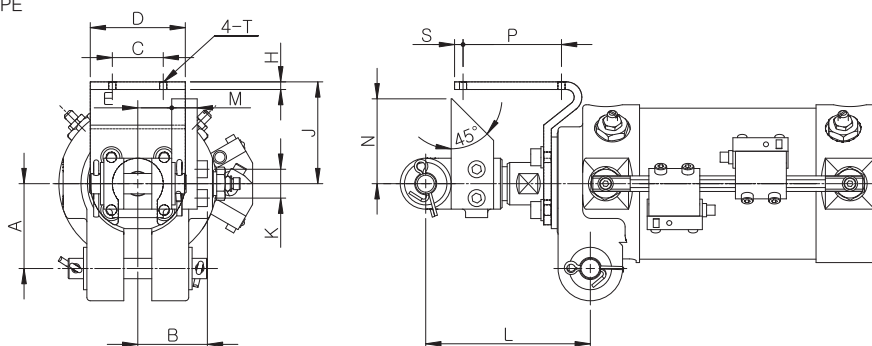
Bore Size	TYPE	A	H	C	D	WC	F	N	L	J	W	LA	LL	M	MM
Ø80	A	50	54	44	25	70	11	52	97	32	4	16.5 ^{+0.3} ₀	60	12	12
	B	50	54	44	25	70	11	52	97	32	4	19.5 ^{+0.7} _{+0.3}	60	12	12
	C	50	48	44	25	70	11	52	110	32	4	28	60	18	18

(Unit : mm)

Bore Size	TYPE	GN	P	Q	IB	S	TT	X	XX	LT	GB
Ø80	A	35	3/8	29	89	118	M6×1.0	12	12	230	15
	B	35	3/8	29	89	118	M6×1.0	12	12	230	15
	C	35	3/8	29	89	118	M6×1.0	18	18	247.5	15

Limit S/W Mount : Cam Mount (Ø80)

ACK*1*80-**-** TYPE



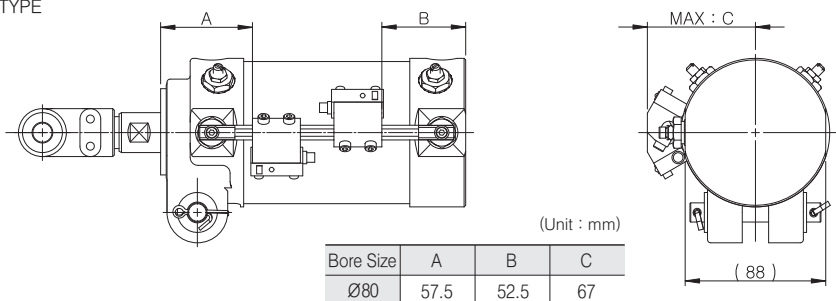
Parts Number	Parts Name	Remark
ACK1A080-48-001	Limit S/W Mount	A, B, C TYPE Common
ACK1A080-42-001	Cam Mount	C TYPE
TCKM040-42-16070		A, B TYPE

(Unit : mm)

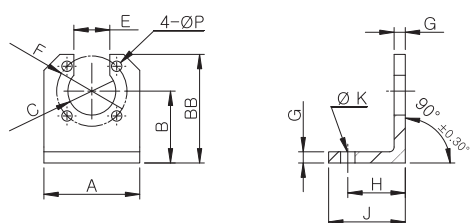
Bore Size	TYPE	A	B	C	D	E	H	J	K	M	N	P	L	S	T
Ø80	A	50	41	30	56	20	4.5	60	17	15	50	58	97	5	M5×0.8
	B	50	41	30	56	20	4.5	60	17	15	45	58	97	5	M5×0.8
	C	48.5	41	30	56	27.5	4.5	60	17	15	45	58	110	5	M5×0.8

Auto Switch Attaching Location

ACK*1*80-**-** TYPE

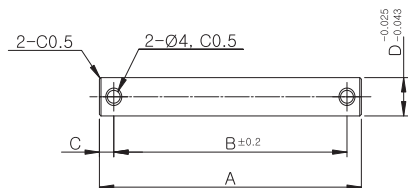


Foot

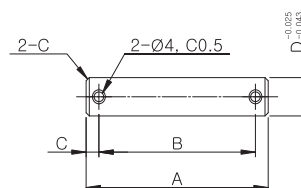


Parts Number	Name	Remark
ACK1A080-19-001	FOOT	A, B, C TYPE common

Clevis Pin



Y Knuckle Pin

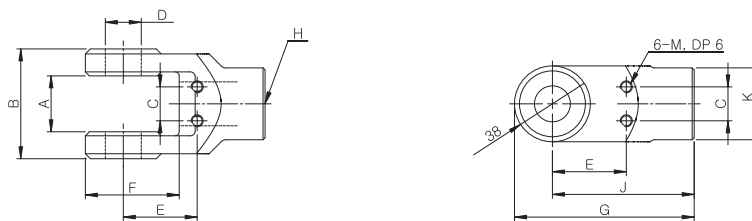


Bore Size	TYPE	A	B	C	D
Ø80	A	82	73	4.5	12
	B	82	73	4.5	12
	C	82	73	4.5	18

Parts Number	Name	Remark
ACK1A080-23-001	Clevis Pin	C TYPE
ACK1A080-23-003		A, B TYPE
ACK1A080-23-002		C TYPE
TC1K040-23-54806	Y-Knuckle Pin	A, B TYPE

Double Knuckle Joint

ACK*1*80-**-** TYPE



* Y-Knuckle of ACK*1*80-**-** type is identical to Ø50 and Ø63.

Parts Number	Name	Remark
ACK1A080-19-001	FOOT	A, B, C TYPE common

ACP
APM
AS
AX
AM2
AM
AL
ALX
AQ
ADQ
AQ2
ADQ2
AJ
AJM
ABK
ACK1
NSK
AG
NGQ
AGX
GX
NP
ADR
AMR
NDM
ARD
NST
AST
ASTH
NLCD
NLCS