

## Adjustable Stroke Cylinder/Extension adjustable Type

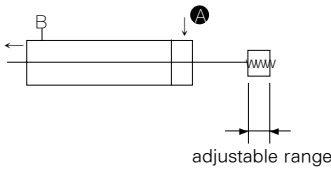
AM **Mounting** **Type** **Bore size** **Stroke** **Rod Boot** **Stroke Additional symbol** — XC8

**ROD BOOT** ●  
 Blank — Without Rod Boot  
 J — With Rod Boot (Nylon tarpaulin)  
 K — With Rod Boot (Neoprene cloth)

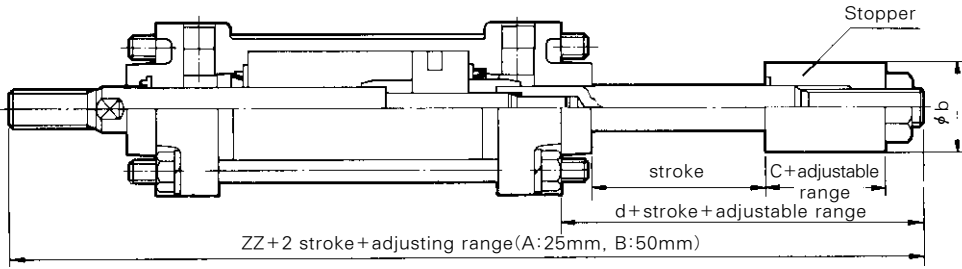
● **Stroke Additional symbol**  
 A — Stroke adjusting range 0~25mm  
 B — Stroke adjusting range 0~50mm

The stroke at extend of the cylinder can be adjusted by the stopper in the head side from full stroke 0~25mm or 0~50mm

### Symbol



## Construction/Dimensions



Bore size	φb	c	d	ZZ
φ40	φ32	22	46	181
φ50	φ42	28	58.5	206.5
φ63		28	54	210
φ80	φ55	35	70	257
φ100		35	70	268

※ Other dimensions are the same as for standard type

- ACP
- UACP
- AX
- AS
- AM**
- AL
- ALX
- UARD
- UAQ
- AJ
- AG
- UAG
- ADM
- ADR
- AMR
- UAMR
- AST
- W~

# Order Made Option

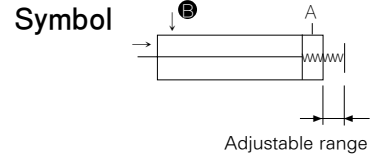
## Adjustable Stroke Cylinder/Retraction adjustable Type

AM **Mounting** **Type** **Bore size** **Stroke** **Rod Boot** **Stroke Additional symbol** — XC9

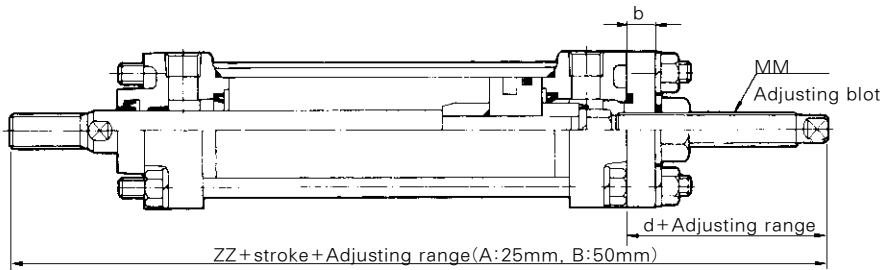
Additional symbol ●  
 Blank—Without Rod Boot  
 J —With Rod Boot (Nylon tarpaulin)  
 K —With Rod Boot (Neoprene cloth)

● Stroke Additional symbol  
 A—Stroke adjusting range 0~25mm  
 B—Stroke adjusting range 0~50mm

The stroke at retraction of the cylinder can be adjusted from 0~25mm or 0~50mm by the adjusting bolt.



### Construction/Dimensions



Bore Size	MM	b	d	ZZ
φ 40	M16×1.5	9	43	178
φ 50	M16×1.5	11	44	192
φ 63	M20×1.5	11	48	204
φ 80	M24×1.5	15	59	246
φ 100	M24×1.5	15	57	255

※ Other dimensions are the same as for standard type

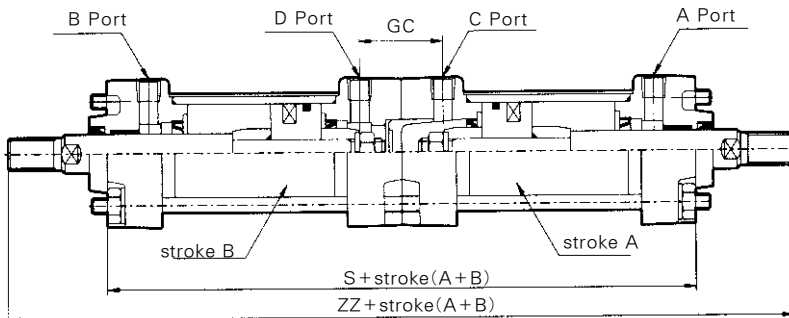
## DUAL Stroke Cylinder/Double Rod Type

AM **Mounting** **Type** **Bore size** **Stroke A** **Rod Boot** + **Stroke B** **Rod Boot** — XC10

● Additional symbol  
 Blank—Without Rod Boot  
 J—With Rod Boot (Nylon tarpaulin)  
 K—With Rod Boot (Neoprene cloth)

Two cylinders are constructed as one cylinder in a back-to-back configuration allowing the cylinder stroke to be controlled in three steps.

### Construction/Dimensions



Bore size	GC	S	ZZ
φ 40	29	167	269
φ 50	33	179	295
φ 63	33	195	311
φ 80	41	231	373
φ 100	41	251	395

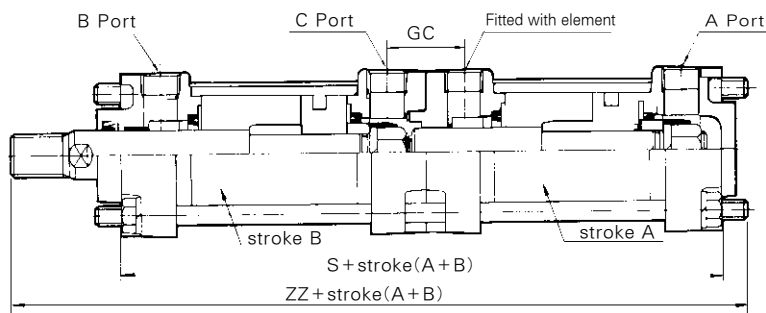
※ Other dimensions are the same as for standard type.

## DUAL Stroke Cylinder/Single Rod Type

AM **Mounting** **Type** **Bore size** **Stroke A** + **StrokeB-A** **Rod Boot** - XC11

- Additional symbol  
 Blank - Without Rod Boot  
 J - With Rod Boot (Nylon tarpaulin)  
 K - With Rod Boot (Neoprene cloth)

### Construction/Dimensions



Bore size	GC	S	ZZ
φ 40	29	168	230
φ 50	33	180	249
φ 63	33	196	268
φ 80	41	232	320
φ 100	41	252	341

※ Other dimensions are the same as for standard type.

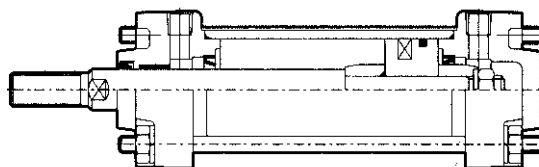
### With Scraper

AM **Mounting** **Type** **Bore size** **Stroke** - XC4

### Specifications

Type	Lube, Non-Lube
Applicable cylinder bore size	φ 40, φ 50, φ 63, φ 80, φ 100
Max.operating pressure	9.9kgf/cm <sup>2</sup> {990kPa}
Min.operating pressure	0.5kgf/cm <sup>2</sup> {50kPa}
Cushion	Air cushion(Standard)
Wiper ring	Material:SCB
Mounting	Basic type, Axial foot type, Rod side flange type, head side flange type, Single clevis type, Double clevis type, center trunnion

### Construction



※ Dimensions are the same as for standard type.

ACP

UACP

AX

AS

AM

AL  
ALX

UARD

UAQ

AJ

AG

UAG

ADM

ADR

AMR

UAMR

AST

W~

# Order Made Option

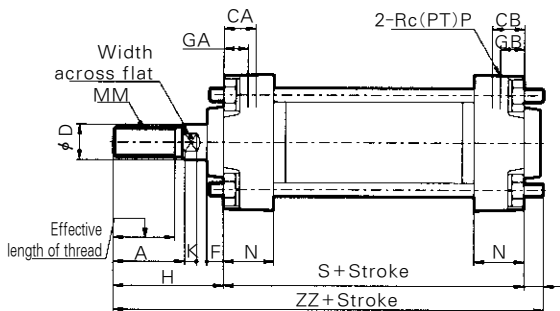
## Over Sized Rod

AM Mounting Type Bore size Stroke Suffix - XB5

The Piston Rod for the cylinder has larger diameter and increased intensity. In addition the stroke is long and this cylinder can be used in the cases of existing applications for bent Piston Rods.

Type	Lube, Non-lube				
Bore size(mm)	φ 40	φ 50	φ 63	φ 80	φ 100
Piston rod diameter(mm)	φ 20	φ 25	φ 25	φ 30	φ 36

## Construction/Dimensions

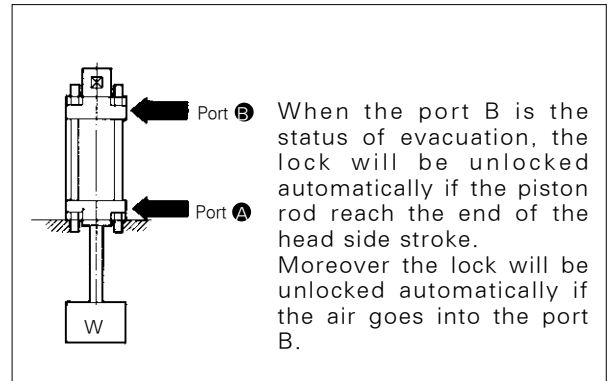


Bore size(mm)	A	φD	K	MM	P	H	ZZ
40	35	20	7	M18×1.5	1/4	58	153
50	40	25	11	M22×1.5	3/8	71	172
63	40	25	11	M22×1.5	3/8	71	183
80	40	30	11	M26×1.5	1/2	72	205
100	50	36	15	M30×1.5	1/2	85	228

※ Other dimensions are the same as for Series AM standard type.

## End Lock Cylinder

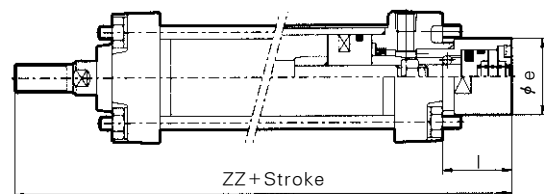
AM Mounting Type Bore size Stroke Suffix - X105



## Specifications

Type	Lube, Non-lube
Bore size	φ 40, φ 50, φ 63, φ 80, φ 100
Cushion	Air Cushion
Action	Double Acting
Retaining force	φ 40: 20kgf, φ 50~φ 100: 150kgf
Lock start pressure	0.5kgf/cm <sup>2</sup> (0.05MPa)
Lock release pressure	2kgf/cm <sup>2</sup> (0.2MPa)
Mounting	Basic, Foot, Flange, Center trunnion

## Construction/Dimensions



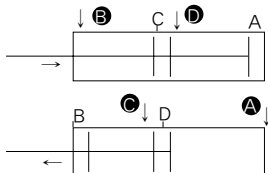
Bore size	φe	l	ZZ
φ 40	34	31	166.0
φ 50	48	47.5	195.5
φ 63	48	47.5	203.5
φ 80	50	47.0	234.0
φ 100	50	49.0	247.0

## Tandem Type Air Cylinder

AM (Mounting) (Type) (Bore size) (Stroke) (Suffix) - XC12

This cylinder is produced with two air cylinders in line allowing double the output force.

### Symbol



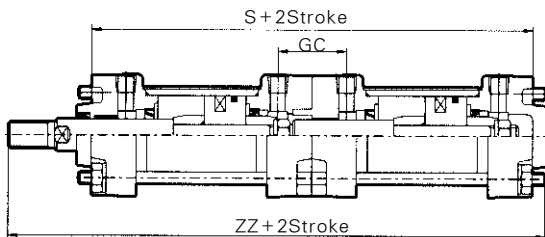
When air pressure is supplied to ports B and D, the output force is doubled in the return stroke.

When air pressure is supplied to ports A and C, the output force is doubled in the extend stroke.

### Specifications

Type	Lube, Non-lube
Bore size	φ 40, φ 50, φ 63, φ 80, φ 100
Max. operating pressure	9.9kgf/cm <sup>2</sup> {0.97MPa}
Min. operating pressure	1kgf/cm <sup>2</sup> {0.1MPa}
Cushion	Air cushion (Standard)
Action	Double Acting
Mounting	Basic type, Foot type, Rod side flange type, Head side flange type, Single clevis type, Double clevis type

### Construction



Bore size	GC	S	ZZ
φ 40	29	169	231
φ 50	33	181	250
φ 63	33	197	269
φ 80	41	233	321
φ 100	41	253	342

## High Temperature Cylinder

AM (Mounting) N (Bore size) (Stroke) (Suffix) - XB6

Can be used at high temperature up to 150°C

### Specifications

Type	Non-lube
Bore size	φ 40, φ 50, φ 63, φ 80, φ 100
Ambient and media temperature	-20~+150°C
Seal material	FPM

\* Auto-switch capable not available

## Stainless Steel Rod

AM (Mounting) (Type) (Bore size) (Stroke) (Suffix) - XC6

Stainless steel piston rod is used to protect in harsh or wet environment.

Auto-switch mounting available

### Specifications

Type	Lube, Non-lube, Air-hydro
Bore size	φ 40, φ 50, φ 63, φ 80, φ 100
Piston rod nut material	Stainless steel (SUS 304)

## With Coil Scraper

AM (Mounting) (Type) (Bore size) (Stroke) (Suffix) - X104

Cushion ●  
 Blank - Both End  
 R - Rod End  
 H - Head End  
 N - Without cushion

ACP

UACP

AX

AS

AM

AL  
ALX

UARD

UAQ

AJ

AG

UAG

ADM

ADR

AMR

UAMR

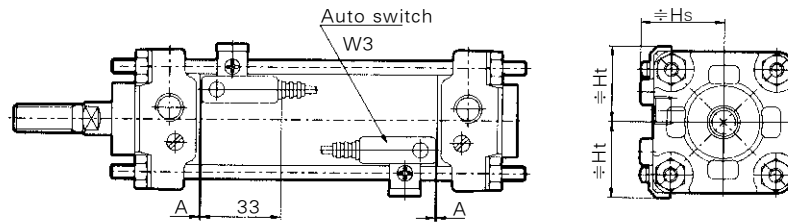
AST

W~

# Series AM

## Auto Switch Mounting Position (At stroke End)

W3



Auto s/w model	Auto s/w mounting position	Auto s/w placement dimensions(mm)				
		φ 40	φ 50	φ 63	φ 80	φ 100
W3	A	0(0)	0(0)	0(2.5)	2(6)	4(7.5)
	B	1(0)	1(0)	5(1.5)	8(4)	10(6.5)
	±Hs	40	43.5	49	55.5	63
	±Ht	31	35	42	50	57.5

※ ( ) in parenthesis are for long stroke, non-lube type and air-hydro type, but long stroke is available only for foot type and front flange type in the series AM

### Minimum Auto Switch Mountable Stroke

Minimum auto switch mountable stroke is as follows.

Auto switch model	No. of Auto switch	Mounting bracket except trunnion	Center trunnion			
			φ 40, φ 50	φ 63	φ 80	φ 100
W3	With 2 switch (different, same surface) with 1 switch	15	90	100	110	120
	With n switches (same surface)	$15 + 55$ $\left(\frac{n-2}{2}\right)$ n=1, 2, 3, 4, ...	$90 + 100$ $\left(\frac{n-4}{2}\right)$ n=4, 8, 12, 16, ...	$100 + 55$ $\left(\frac{n-4}{2}\right)$ n=4, 8, 12, 16, ...	$110 + 55$ $\left(\frac{n-4}{2}\right)$ n=4, 8, 12, 16, ...	$120 + 55$ $\left(\frac{n-4}{2}\right)$ n=4, 8, 12, 16, ...

n: No. of auto switch