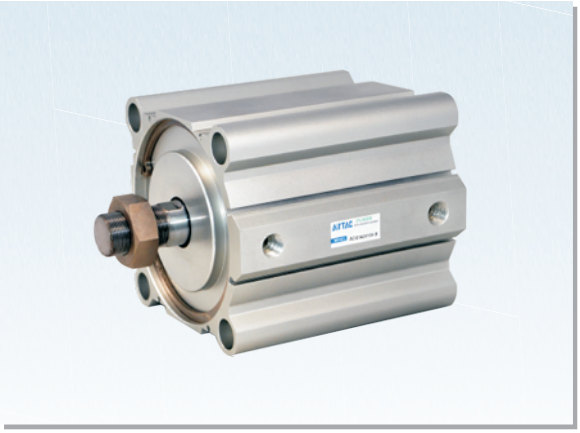


Specification

Bore size(mm)	125	140	160
Acting type	Double acting		
Fluid	Air(to be filtered by 40 μ m filter element)		
Operating pressure	0.05~1.0MPa(7~145psi)		
Proof pressure	1.5MPa(215psi)		
Temperature ℃	-20~80		
Speed range mm/s	30~500		
Stroke tolerance mm	$^{+1.4}_{0}$		
Cushion type	Bumper		
Port size ①	3/8"		

① PT thread, NPT thread and G thread are available. Add) Refer to P397~420 for detail of sensor switch.

Stroke

Bore size (mm)	Standard stroke (mm)	Max. std stroke	Max. stroke
125 140 160	10 20 30 40 50 75 100 125 150 175 200 250 300	300	300

Note) 1. Please contact the company for other special strokes.
2. The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

Symbol

ACQ–S ACQD–S ACQJ–S

ACQ

Product feature

1. JIS standard is implemented.
2. C clip is adopted to connect the cylinder body and back cover or front cover to make it compact and reliable.
3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of grease reservation.
5. Compact structure can effectively save installation space.
6. There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.

Ordering code

ACQ 125×30 S B □
ACQD 125×30 S B □
ACQJ 125×30–30 S B □

Model
ACQ: Compact cylinder(Double acting)
ACQD: Compact cylinder(Double rod)
ACQJ: Compact cylinder(Adjustable stroke)

Bore size
125 140 160

Stroke
Refer to stroke table for details

Adjustable stroke

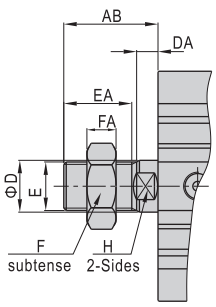
Model	Adjustable stroke
ACQJ	10: 10mm
	20: 20mm
	30: 30mm
	40: 40mm
	50: 50mm
	75: 75mm
	100: 100mm
Others	No this code

Thread type
Blank: PT
T: NPT
G: G

Rod type
Blank: Female thread
B: Male thread

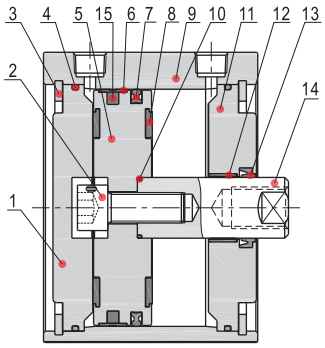
Magnet
S: With magnet

Male thread



Bore size\Item	AB	D	DA	E	EA	F	FA	H
125	58	32	13	M30×1.5	42	46	18	27
140	58	32	13	M30×1.5	42	46	18	27
160	64	40	14	M36×1.5	47	55	21	36

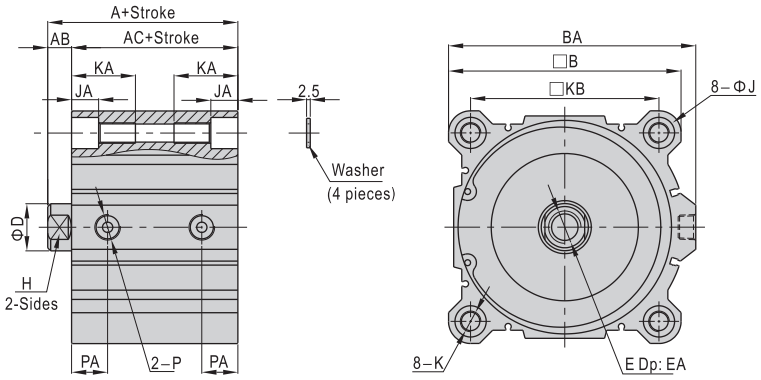
Inner structure and material of major parts



NO.	Item	Material
1	Back cover	Aluminum alloy
2	Screw	Carbon steel
3	C clip	Spring steel
4	O-ring	NBR
5	Piston	Aluminum alloy
6	Wear ring	Wear resistant material
7	Piston seal	NBR
8	Bumper	NBR
9	Body	Aluminum alloy
10	O-ring	NBR
11	Front cover	Aluminum alloy
12	Bushing	Wear resistant material
13	Front cover packing	NBR
14	Piston rod	Carbon steel with 20 μ m chrome plated
15	Magnet	Rubber

Dimensions

ACQ

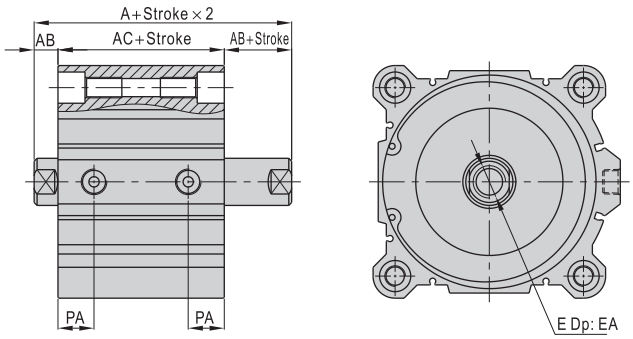


Bore size\Item	A	AB	AC	B	BA	D	E	EA(St≤10)	EA(St>10)	H
125	99	16	83	142	153	32	M22×2.5	22.5	30	27
140	99	16	83	158	168	32	M22×2.5	22.5	30	27
160	108	17	91	178	188	40	M24×3.0	26.5	33	36

Bore size\Item	J	JA	K	KA	KB	P	PA
125	21.5	18.4	M14×2.0 Thru.hole: Φ12.3	43.5	114	3/8"	24.5
140	21.5	18.4	M14×2.0 Thru.hole: Φ12.3	43.5	128	3/8"	24.5
160	24.5	21.2	M16×2.0 Thru.hole: Φ14.3	49	144	3/8"	27.5

Remark) Washer must be used when the cylinder be mounted by through hole.
Please refer to page 254 for male thread dimensions.

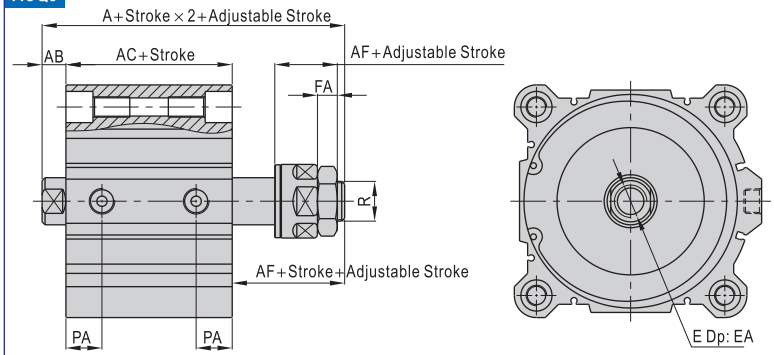
ACQD



Bore size\Item	A	AB	AC	E	EA		PA
					St≤10	St>10	
125	115	16	83	M22×2.5	22.5	30	24.5
140	115	16	83	M22×2.5	22.5	30	24.5
160	125	17	91	M24×3.0	26.5	33	27.5

Remark) The unmarked dimension is the same as ACQ standard type.
Please refer to page 254 for male thread dimensions.

ACQJ



Bore size\Item	A	AB	AC	AF	E	EA		FA	PA	R
						St≤10	St>10			
125	140.8	16	83	42.5	M22×2.5	22.5	30	13.5	24.5	M27×2.0
140	140.8	16	83	42.5	M22×2.5	22.5	30	13.5	24.5	M27×2.0
160	175.3	17	91	68	M24×3.0	26.5	33	18	27.5	M36×2.0

Remark) The unmarked dimension is the same as ACQ standard type.
Please refer to page 254 for male thread dimensions.