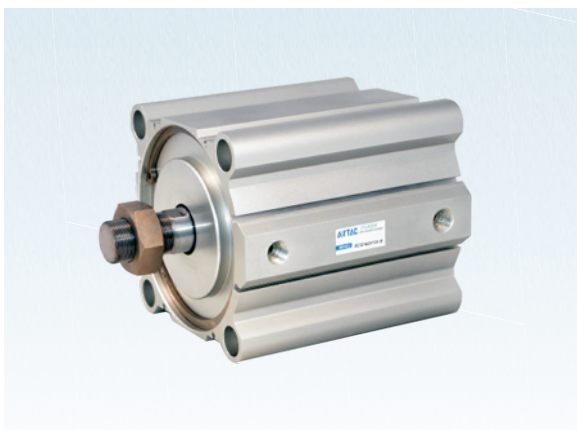


Compact cylinder

ACQ Series(Big bore size)



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 °C	-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	10	20	30	40	50	75	100	125	150	175	200	250	300			300	300
160																	

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.

Ordering code

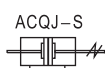
ACQ	125 × 30	S	B	
ACQD	125 × 30	S	B	
ACQJ	125 × 30-30	S	B	

Model	Thread type
ACQ: Compact cylinder(Double acting)	Blank: PT
ACQD: Compact cylinder(Double rod)	T: NPT
ACQJ: Compact cylinder(Adjustable stroke)	G: G
Bore size	Rod type
125 140 160	Blank: Female thread
Stroke	B: Male thread
Refer to stroke table for details	Magnet
Adjustable stroke	S: With magnet
Model	Adjustable stroke
ACQJ	10: 10mm
	20: 20mm
	30: 30mm
	40: 40mm
	50: 50mm
	75: 75mm
	100: 100mm
Others	No this code

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	

Symbol



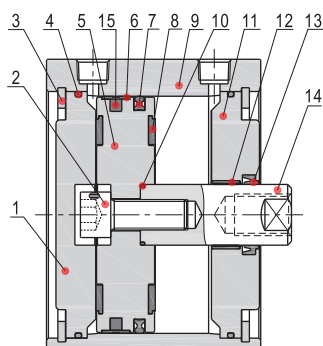
Product feature

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.

Compact cylinder

ACQ Series(Big bore size)

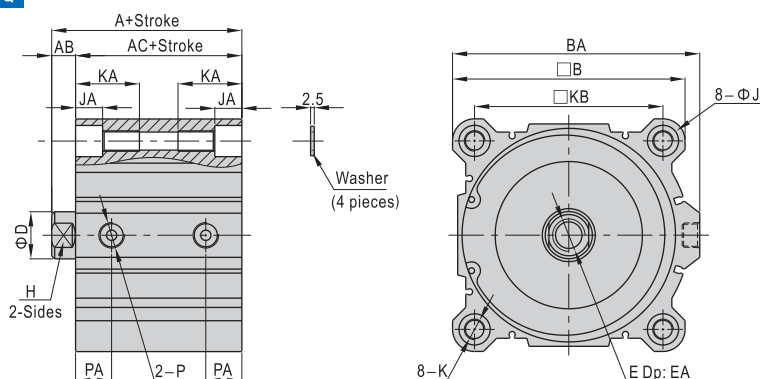
Inner structure and material of major parts



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

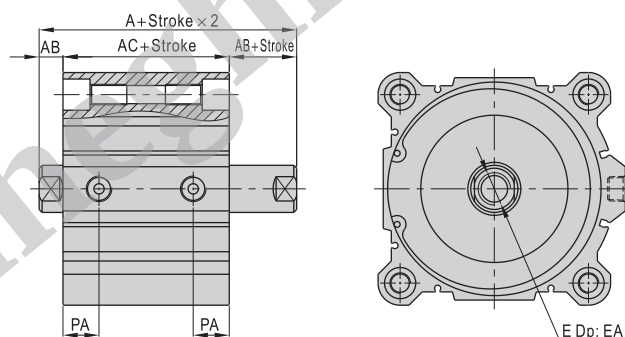


Bore size\Item	A	AB	AC	B	BA	D	E	EA(St≤10)	EA(St>10)	H
125	99	16	83	142	153	32	M22 × 2.5	22.5	30	27
140	99	16	83	158	168	32	M22 × 2.5	22.5	30	27
160	108	17	91	178	188	40	M24 × 3.0	26.5	33	36

Bore size\Item	J	JA	K	KA	KB	P	PA
125	21.5	18.4	M14 × 2.0 Thru.hole: Φ 12.3	43.5	114	3/8"	24.5
140	21.5	18.4	M14 × 2.0 Thru.hole: Φ 12.3	43.5	128	3/8"	24.5
160	24.5	21.2	M16 × 2.0 Thru.hole: Φ 14.3	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.

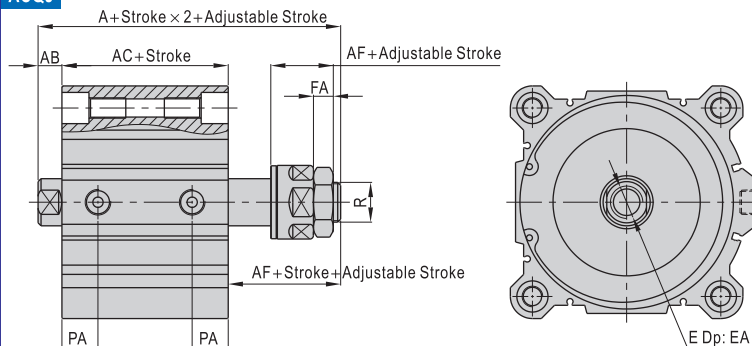
ACQD



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	M27 × 2.0
140	140.8	16	83	42.5	M22 × 2.5	22.5	30	13.5	M27 × 2.0
160	175.3	17	91	68	M24 × 3.0	26.5	33	18	M36 × 2.0

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



ACQ