

■ Installation and application

- 1、When load changes in the work, the cylinder with abundant output capacity shall be selected;
- 2、Relative cylinder with high temperature resistance or corrosion resistance shall be chosen under the condition of high temperature or corrosion;
- 3、Necessary protection measure shall be taken in the environment with larger humidity, much dust or water drops, oil dust and welding dregs;
- 4、Dirty substances in the pipe must be cleared away before cylinder is connected with pipeline to prevent the entrance of sundries into the cylinder;
- 5、The medium used by cylinder shall be filtered by the filter core of above 40um;
- 6、As both of the front cover and piston of the cylinder are short, typically too large stroke can not be selected;
- 7、Anti-freezing measure shall be adopted under low temperature environment to prevent moisture freezing;
- 8、The cylinder shall avoid the influence of side load in operation to maintain the normal work of cylinder and extend the service life;
- 9、If the cylinder is dismantled and stored for a long time, please conduct anti-rust treatment to the surface.
Anti-dust jam cap shall be added in air intake and outlet orifices. The front and back cover can not be dismantled, which shall be especially noticed.

■ Criteria for selection: Cylinder thrust

Unit: Newton (N)

Bore size(mm)	Rod size (mm)	Acting type	Pressure area(mm ²)	Operating pressure MPa					
				0.1	0.2	0.3	0.4	0.5	0.6
12	6	Single acting-Push type	113.1	—	13.6	24.9	36.2	47.5	58.9
		Single acting-Pull type	84.8	—	8.0	16.4	24.9	33.4	41.9
	8	Double acting Push side	113.1	11.3	22.6	33.9	45.2	56.5	67.9
		Double acting Pull side	84.8	8.5	17.0	25.4	33.9	42.4	50.9
16	8	Single acting-Push type	201.1	—	27.0	47.1	67.2	87.3	107.4
		Single acting-Pull type	150.8	—	17.0	32.0	47.1	62.2	77.3
	10	Double acting Push side	201.1	20.1	40.2	60.3	80.4	100.5	120.6
		Double acting Pull side	150.8	15.1	30.2	45.2	60.3	75.4	90.5
20	10	Single acting-Push type	314.2	—	36.8	68.2	99.7	131.1	162.5
		Single acting-Pull type	235.6	—	21.1	44.7	68.2	91.8	115.4
	12	Double acting Push side	314.2	31.4	62.8	94.2	125.7	157.1	188.5
		Double acting Pull side	235.6	23.6	47.1	70.7	94.2	117.8	141.4
25	12	Single acting-Push type	490.9	18.1	67.2	116.3	165.3	214.4	263.5
		Single acting-Pull type	377.8	6.8	44.6	82.3	120.1	157.9	195.7
	16	Double acting Push side	490.9	49.1	98.2	147.3	196.3	245.4	294.5
		Double acting Pull side	377.8	37.8	75.6	113.3	151.1	188.9	226.7
32	16	Single acting-Push type	804.2	27.4	107.8	188.3	268.7	349.1	429.5
		Single acting-Pull type	603.2	7.3	67.6	128.0	188.3	248.6	308.9
	20	Double acting Push side	804.2	80.4	160.8	241.3	321.7	402.1	482.5
		Double acting Pull side	603.2	60.3	120.6	181.0	241.3	301.6	361.9
40	16	Single acting-Push type	1256.6	44.7	170.3	296.0	421.7	547.3	673.0
		Single acting-Pull type	1055.6	24.6	130.1	235.7	341.2	446.8	552.3
	20	Double acting Push side	1256.6	125.7	251.3	377.0	502.7	628.3	754.0
		Double acting Pull side	1055.6	105.6	211.1	316.7	422.2	527.8	633.3
50	20	Single acting-Push type	1963.5	96.3	292.7	489.0	685.4	881.7	1078.1
		Single acting-Pull type	1649.3	64.9	229.9	394.8	559.7	724.7	889.6
	25	Double acting Push side	1963.5	196.3	392.7	589.0	785.4	981.7	1178.1
		Double acting Pull side	1649.3	164.9	329.9	494.8	659.7	824.7	989.6
63	20	Single acting-Push type	3117.2	141.7	453.4	765.2	1076.9	1388.6	1700.3
		Single acting-Pull type	2803.1	110.3	390.6	670.9	951.2	1231.5	1511.9
	25	Double acting Push side	3117.2	311.7	623.4	935.2	1246.9	1558.6	1870.3
		Double acting Pull side	2803.1	280.3	560.6	840.9	1121.2	1401.5	1681.9
80	25	Double acting Push side	5026.5	502.7	1005.3	1508.0	2010.6	2513.3	3015.9
	acting	Pull side	4535.7	453.6	907.1	1360.7	1814.3	2267.8	2721.4
100	32	Double acting Push side	7854.0	785.4	1570.8	2356.2	3141.6	3927.0	4712.4
		Double acting Pull side	7049.7	705.0	1409.9	2114.9	2819.9	3524.9	4229.8

■ Product series

	Series name		Mounting type	Acting type	Bore size	Collocation of sensor switch							
	Double acting type: ACQ	Single acting type: ASQ、ATQ				CS1-J	CS1-JX	CS1-JN	CS1-JP	CS1-G	CS1-GX	CS1-GN	CS1-GP
				Single acting	12	●	●	●	●	●	●	●	●
		Adjustable stroke type: ACQJ		Double acting	16	●	●	●	●	●	●	●	●
				Double acting	20	●	●	●	●	●	●	●	●
				Double acting	25	●	●	●	●	●	●	●	●
				Double acting	32	●	●	●	●	●	●	●	●
				Double acting	40	●	●	●	●	●	●	●	●
				Double acting	50	●	●	●	●	●	●	●	●
				Double acting	63	●	●	●	●	●	●	●	●
				Double acting	80	●	●	●	●	●	●	●	●
				Double acting	100	●	●	●	●	●	●	●	●
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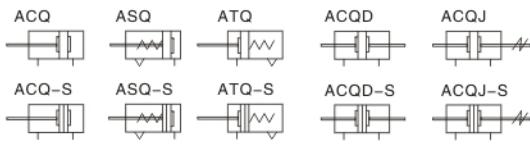


■ Specification

Bore size (mm)	12	16	20	25	32	40	50	63	80	100
Acting type	Double acting type									
	Single acting-Push type、Single acting-Pull type									-
Fluid	Air (to be filtered by 40um filter element)									
Operating pressure	0.1~1.0MPa(14~145Psi)									
Single acting	0.2~1.0MPa(28~145Psi)									
Proof pressure	1.5MPa(215Psi)									
Temperature °C	-20~80									
Speed range mm/s	Double acting type: 30~500					Single acting type: 50~500				
Stroke tolerance	0~150 ^{+1.0} ₀					> 150 ^{+1.4} ₀				
Cushion type	Bumper									
Port size ①	M5 x 0.8			1/8"			1/4"		3/8"	

① PT thread, NPT thread and G thread are available;
Add: Refer to PVI-39-VI-50 for detail of sensor switch.

■ Symbol



■ Product feature

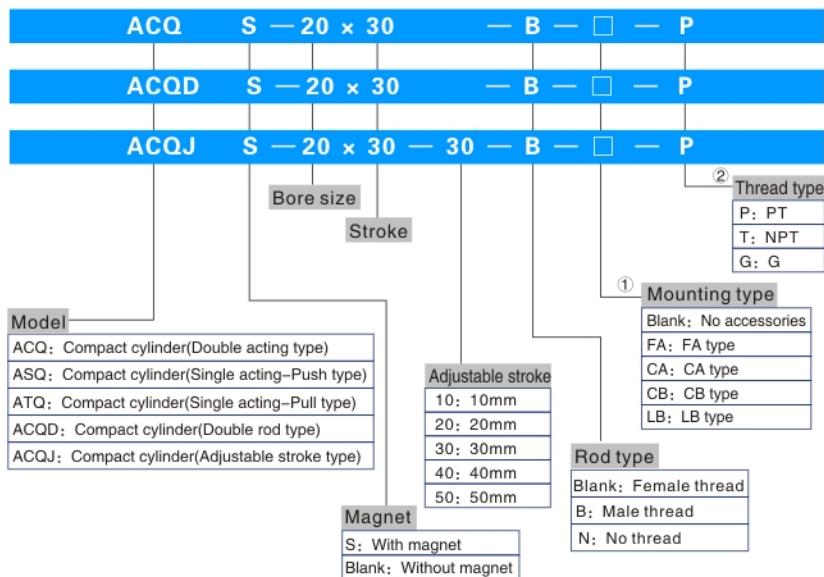
1. JIS standard is implemented
2. Riveted structure is adopted to connect the cylinder body and back cover, and piston and piston rod to make it compact and reliable;
3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability;
4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of oil 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;
7. Installing accessories with various specifications are optional.

■ Stroke

Bore size (mm)	Standard stroke (mm)		Max. stroke	Available acting	
	Without magnet	With magnet		Without magnet	With magnet
12	Double acting	5 10 15 20 25 30 35 40 45 50	50	80	70
	Single acting	5 10 15 20	20	-	-
16	Double acting	5 10 15 20 25 30 35 40 45 50 55 60	60	80	70
	Single acting	5 10 15 20	20	-	-
20	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	130	130
	Single acting	5 10 15 20 25 30	30	-	-
32	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
	Single acting	5 10 15 20 25 30	30	-	-
40	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
	Single acting	5 10 15 20 25 30	30	-	-
50	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
	Single acting	5 10 15 20 25 30	30	-	-
63	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
	Single acting	5 10 15 20 25 30	30	-	-
80	Double acting	5 10 15 20 25 30 35 40 45 50 55 60 70 75 80 90 100	100	150	150
	Single acting	5 10 15 20 25 30	30	-	-

Note: 1. Within allowable stroke scope, when the stroke is larger than the maximum value, it shall be treated as non-standard one. Please contact the company for other special strokes.
2. The non-standard stroke within the scope of maximum stroke is transformed according to the standard stroke of the upper grade and its shape and dimension are equal to that of standard stroke cylinder of the upper grade. For instance, the non-standard stroke cylinder whose stroke is 23 is transformed from the standard cylinder whose standard stroke is 25, and their shape and dimension are the same.

■ Ordering code



① Please refer to PV-13 for accessory parts;

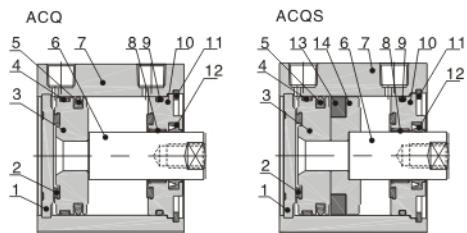
② When it is M5 thread, it is blank here.

Compact cylinder

ACQ Series

AirTAC

Inner structure and material of major parts



NO.	Bore size	Material				
	Item	12, 16	20	25	32	40~100
1	Back cover	—	Aluminum alloy			
2	Bumper	TPU	NBR			
3	Piston	Brass	Aluminum alloy			
4	Wear ring	—	Wear resistant material			
5	Piston O-ring	NBR				
6	Piston rod	Carbon steel with 20um chrome plated				
7	Body	Aluminum alloy				
8	Bushing	—	Wear resistant material			
9	Cover gasket	NBR				
10	Front cover	Brass	Aluminum alloy			
11	C clip	Spring steel				
12	Front cover packing	NBR				
13	Magnet	Sintered metal (Neodymium-iron-boron)	Plastic			
14	Magnet holder	Brass	Aluminum alloy			

Dimensions

ACQ		$\phi 12 \phi 16$		$\phi 20 \phi 25$		$\phi 32 \sim \phi 100$ (Stroke ≤ 100)							
Model	Without magnet	With magnet		Without magnet	With magnet	Without magnet	With magnet	Without magnet	With magnet	Without magnet	With magnet		
		A	C										
Bore size	St ≤ 50	St ≥ 60	St ≤ 50	St ≥ 60	A	C	B1	D	E	K1	M		
12	20.5	—	17	—	31.5	28	3.5	—	6	M3 x 0.5	3.5		
16	22	—	18.5	—	34	30.5	3.5	—	8	M4 x 0.7	3		
20	24	34	19.5	29.5	36	31.5	4.5	—	7	M5 x 0.8	4		
25	27.5	37.5	22.5	32.5	37.5	32.5	5	—	12	M6 x 1.0	4.5		
											11		
											5.5		
Bore size\Item	O	P1				P3	P4	S	T1	T2	V	W	
12	M5 x 0.8	2-Sides: $\phi 6.5$ Thread: M4 x 0.7 Thru.hole: $\phi 3.4$				11	3.5	25	15.5	22	6	5	
16	M5 x 0.8	2-Sides: $\phi 6.5$ Thread: M4 x 0.7 Thru.hole: $\phi 3.4$				11	3.5	29	20	28	8	6	
20	M5 x 0.8	2-Sides: $\phi 9$ Thread: M6 x 1.0 Thru.hole: $\phi 5.2$				17	7	36	25.5	36	10	8	
25	M5 x 0.8	2-Sides: $\phi 9$ Thread: M6 x 1.0 Thru.hole: $\phi 5.2$				17	7	40	28	40	12	10	
Bore size	O	P1				P3	P4	S	T1	T2	V	W	
32	1/8"	2-Sides: $\phi 9$ Thread: M6 x 1.0 Thru.hole: $\phi 5.2$											
40	1/8"	2-Sides: $\phi 9$ Thread: M6 x 1.0 Thru.hole: $\phi 5.2$											
50	1/4"	2-Sides: $\phi 11$ Thread: M8 x 1.25 Thru.hole: $\phi 6.5$											
63	1/4"	2-Sides: $\phi 14$ Thread: M10 x 1.5 Thru.hole: $\phi 8.7$											
80	3/8"	2-Sides: $\phi 17.5$ Thread: M12 x 1.75 Thru.hole: $\phi 10.7$											
100	3/8"	2-Sides: $\phi 17.5$ Thread: M12 x 1.75 Thru.hole: $\phi 10.7$											
Bore size	P3	P4	S	T1	T2	V	W						
32	17	7	45	34	—	16	14						
40	17	7	53	40	—	16	14						
50	22	8	64	50	—	20	17						
63	28.5	10.5	77	60	—	20	17						
80	35.5	13.5	98	77	—	25	22						
100	35.5	13.5	117	94	—	32	27						
Model	Without magnet				With magnet		B1	D	E	K1	M		
Item	A	C	Bore size	St ≤ 50	St ≥ 60	A	C	B1	D	E	K1	M	
Bore size	St ≤ 50	St ≥ 60	St ≤ 50	St ≥ 60	St ≤ 50	St ≥ 60	A	C	B1	D	E	K1	M
32	St=5	30	40	23	33	40	33	7	49.5	13	M8 x 1.25	6	7.5
	St>5	38.5	48.5	30.5	40.5	48.5	40.5	8	71	15	M10 x 1.5	6.5	10.5
40	St=5	36.5	46.5	29.5	39.5	46.5	39.5	7	57	13	M8 x 1.25	6	11
	St>5	44	54	36	46	54	46	8	84	15	M10 x 1.5	6.5	9
50	St=5	44	54	36	46	54	46	8	84	15	M10 x 1.5	6.5	15
	St>5	53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16 x 2.0	8.5	16
63	St=5	53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16 x 2.0	8.5	20
	St>5	65	75	53	63	75	63	12	123.5	26	M20 x 2.5	9.5	17.5
Model	Without magnet				With magnet		B1	D	E	K1	M		
Item	A	C	Bore size	St ≤ 50	St ≥ 60	A	C	B1	D	E	K1	M	
Bore size	St ≤ 50	St ≥ 60	St ≤ 50	St ≥ 60	St ≤ 50	St ≥ 60	A	C	B1	D	E	K1	M
32	St=5	30	40	23	33	40	33	7	49.5	13	M8 x 1.25	6	7.5
	St>5	38.5	48.5	30.5	40.5	48.5	40.5	8	71	15	M10 x 1.5	6.5	10.5
40	St=5	36.5	46.5	29.5	39.5	46.5	39.5	7	57	13	M8 x 1.25	6	11
	St>5	44	54	36	46	54	46	8	84	15	M10 x 1.5	6.5	9
50	St=5	44	54	36	46	54	46	8	84	15	M10 x 1.5	6.5	15
	St>5	53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16 x 2.0	8.5	16
63	St=5	53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16 x 2.0	8.5	20
	St>5	65	75	53	63	75	63	12	123.5	26	M20 x 2.5	9.5	17.5

Compact cylinder

ACQ Series

AirTAC

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Item	Bore size	P3	P4	B1	D	E			S	T1	T2	V	W																																																																																													
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16	11	3.5	3.5	-	8	29	20	28	8	6																																																																																																
20	17	7	4.5	-	7	36	25.5	36	10	8																																																																																																
25	17	7	5	-	12	40	28	40	12	10																																																																																																
32	17	7	7	49.5	13	45	34	-	16	14																																																																																																
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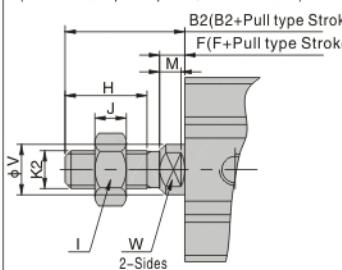
Compact cylinder

AirTAC

ACQ Series

Dimensions of male thread

(Bore size: $\phi 12 \sim \phi 100$, Stroke ≤ 100)



Item	B2	F	H	I	J	K2	M	V	W
Bore size									
12	14	3.5	9	8	4	M5x0.8	3.5	6	5
16	15.5	3.5	10	10	5	M6x1.0	3	8	6
20	18.5	4.5	12	12	6	M8x1.25	4	10	8
25	22.5	5	15	17	6	M10x1.25	4.5	12	10
32	28.5	5	20.5	19	8	M14x1.5	4	16	14
40	28.5	5	20.5	19	8	M14x1.5	4	16	14
50	33.5	5	26	27	11	M18x1.5	4	20	17
63	33.5	5	26	27	11	M18x1.5	4	20	17
80	43.5	8	32.5	32	13	M22x1.5	6	25	22
100	43.5	8	32.5	36	13	M26x1.5	5.5	32	27

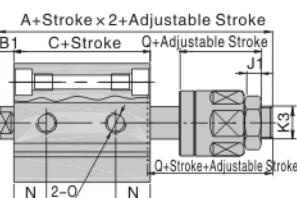
ACQJ

$\phi 12 \sim \phi 16$

Without magnet

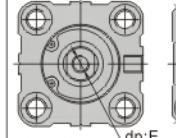


With magnet

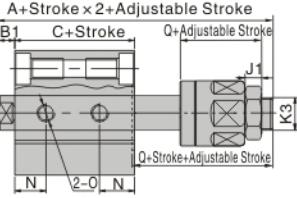


$\phi 20 \sim \phi 25$

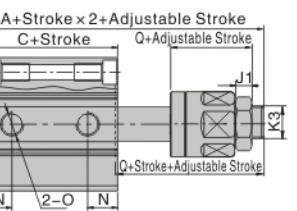
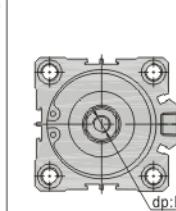
Without magnet



With magnet



$\phi 32 \sim \phi 100$



Model	Without magnet		With magnet		B1	E	N	Q	J1	K3
	A	C	A	C						
Bore size\Item	A	C	A	C	B1	E	N	Q	J1	K3
12	32.2	25.2	39.4	32.4	3.5	6	9	17	4	M5X0.8
16	33	26	43	36	3.5	8	9.5	21	5	M6x1.0
20	35	26	47	38	4.5	7	9.5	25	6	M8x1.25
25	39	29	49	39	5	9.5(S=5) 12(S>5)	11	27	6	M10X1.25
32	44.5	30.5	54.5	40.5	7	9(S≤10) 13(S>10)	10	28	7	M12X1.25
40	54	40	64	50	7	11(S≤10) 13(S>10)	13	28	7	M12X1.25
50	56.5	40.5	66.5	50.5	8	12(S≤10) 15(S>10)	13.5	29	8	M16X1.5
63	58	42	68	52	8	12(S≤10) 15(S>10)	14.5(S=5) 16(S>5)	29	8	M16X1.5
80	71	51	81	61	10	14(S≤15) 20(S>15)	16	35.5	10	M20X1.5
100	84.5	60.5	94.5	70.5	12	20(S≤25) 26(Others)	21	42.5	13.5	M27x2.0

Remark: 1. The unmarked dimension is the same as ACQ standard type;

2. Please refer to this page above for male thread dimensions.

Remark: 1. The unmarked dimension is the same as ACQ standard type;
2. Please refer to this page above for male thread dimensions.

Compact cylinder

AirTAC

ACQ Series(longer stroke type)



Specification

Bore size (mm)	32	40	50	63	80	100
Acting type	Double acting type					
Fluid	Air (to be filtered by 40um filter element)					
Operating pressure	0.1~1.0MPa(14~145Psi)					
Proof pressure	1.5MPa(215Psi)					
Temperature °C	-20~80					
Speed range mm/s	30~500					
Stroke tolerance	$101\sim150^{+1.0}_0$ $>150^{+1.4}_0$					
Cushion type	Bumper					
Port size ①	1/8"	1/4"	1/4"	1/4"	1/4"	3/8"

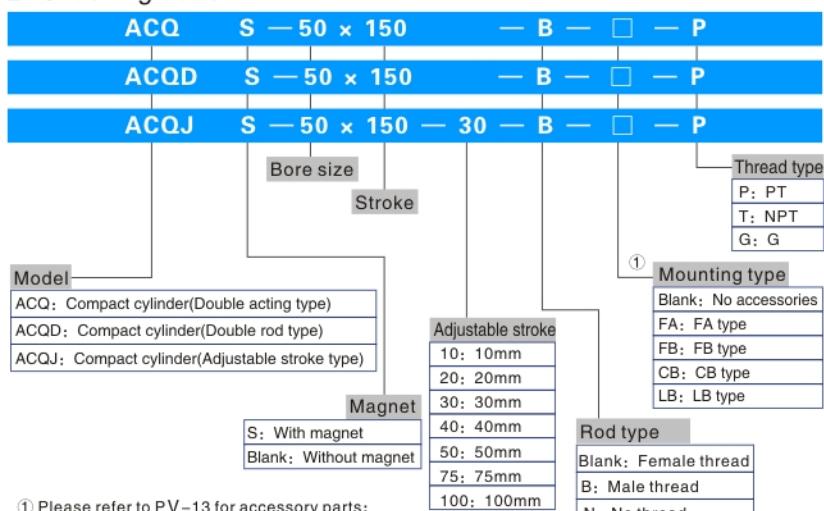
① PT thread, NPT thread and G thread are available;
Add: Refer to PV-39~VI-50 for detail of sensor switch.

Stroke

Bore size (mm)	32	40	50	63	80	100	Standard stroke (mm)	125	150	175	200	225	250	275	300	Max. stroke	300	Available stroke	350

Note: Within allowable stroke scope, when the stroke is larger than the maximum value, it shall be treated as non-standard one. Please contact the company for other special strokes.

Ordering code



① Please refer to PV-13 for accessory parts;

Dimensions

ACQ									
φ 32~φ 100 (Stroke > 100)									
Bore size\Item	B1	C	D	E	K1	M	N	O	P1
32	62.5	17	45.5	49.5	13				
40	72	17	55	57	13				
50	73.5	18	55.5	71	15				
63	75	18	57	84	15				
80	86	20	66	104	21				
100	97.5	22	75.5	123.5	27				

ACQ												
φ 32~φ 100 (Stroke > 100)												
Bore size\Item	B1	M	N	O	K1	P2	Q	R	S			
32	M8 × 1.25	6	12.5	1/8"	2-Sides:M6 × 1.0 Thru.hole φ 5.2	10	12	22	45	34	16	14
40	M8 × 1.25	6	14	1/8"	2-Sides:M6 × 1.0 Thru.hole φ 5.2	10	12	28	53	40	16	14
50	M10 × 1.5	6.5	14	1/4"	2-Sides:M8 × 1.25 Thru.hole φ 6.5	14	13	35	64	50	20	17
63	M10 × 1.5	6.5	16.5	1/4"	2-Sides:M10 × 1.5 Thru.hole φ 8.7	18	13	35	77	60	20	17
80	M16 × 2.0	8.5	19	3/8"	2-Sides:M12 × 1.75 Thru.hole φ 10.7	22	15	43	98	77	25	22
100	M20 × 2.5	9.5	23	3/8"	2-Sides:M12 × 1.75 Thru.hole φ 10.7	22	17	59	117	94	32	27

ACQJ												
φ 32~φ 100 (Stroke > 100)												
A+Stroke x 2 + Adjustable Stroke												
B1	J1	Q	W	N	2-Sides	P1	P2	Q	R			
B1dp:E	J1	Q	W	N	2-Sides	P1	P2	Q	R			
ACQD												
φ 32~φ 100 (Stroke > 100)												
A+Stroke x 2 + Adjustable Stroke												
B1	J1	Q	W	N	2-Sides	P1	P2	Q	R			
B1dp:E	J1	Q	W	N	2-Sides	P1	P2	Q	R			
Item	Without magnet	With magnet	B1	E	N	Q	J1	K3				
Bore size	A	C	B1	E	N	Q	J1	K3				
32	79.5	95.5	45.5	89.5	105.5	55.5	17	13	12.5	28	7	M12X1.25
40	89	105	55	99	115	65	17	13	14	28	7	M12X1.25
50	91.5	107.5	55.5	101.5	117.5	65.5	18	15	14	29	8	M16X1.5
63	93	109	57	103	119	67	18	15	16.5	29	8	M16X1.5
80	106	126.5	66	116	136.5	76	20	21	19	35.5	10	M20X1.5
100	119.5	145	75.5	129.5	155	85.5	22	27	23	42.5	13.5	M27X2.0

Remark: 1、The unmarked dimension is the same as ACQ standard type.



Compact cylinder

AirTAC

Accessories

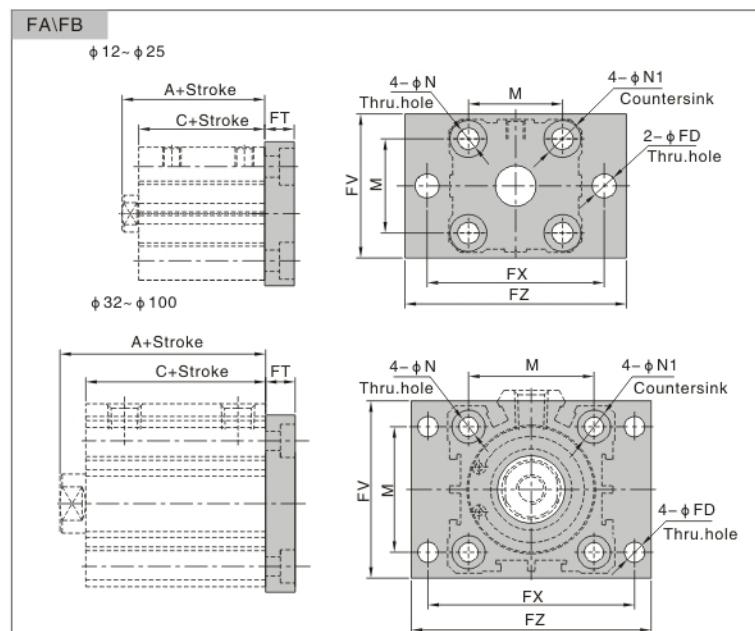
■ Ordering code

F	—	ACQ	50	LB
Accessory		Cylinder model	Bore size	① Accessories type
				LB LB Type
				FA FA Type
				FB FB Type
				CB ② CB Type

① Please see accessory list on PV-14 for detail of accessories.

② CB is attached with relevant PIN.

■ Dimensions



■ Accessories for choosing list

Cylinder model	Accessory	Mounting accessory				Knuckle ①		Sensor switch ②			
		LB	FA	FB	CB	Y	I	F	U	CS1-J	CS1-G
ACQ	Female Standard thread	●	●	●	●			X			
	With magnet	●	●	●	●			X	●		
	Male Standard thread	●	●	●	●			●		X	
	With magnet	●	●	●	●			●		●	
ASQ	Female Standard thread	●	●	●	●			X		X	
	With magnet	●	●	●	●			X	●		
	Male Standard thread	●	●	●	●			●		X	
	With magnet	●	●	●	●			●		●	
ATQ	Female Standard thread	●	●	●	●			X		X	
	With magnet	●	●	●	●			X	●		
	Male Standard thread	●	●	●	●			●		X	
	With magnet	●	●	●	●			●		●	
ACQD	Female Standard thread	●	●	●	●	X		X		X	
	With magnet	●	●	●	●	X		X	●		
	Male Standard thread	●	●	●	●	X		●		X	
	With magnet	●	●	●	●	X		●		●	
ACQJ	Female Standard thread	●	●	●	●	X		X		X	
	With magnet	●	●	●	●	X		X	●		
	Male Standard thread	●	●	●	●	X		●		X	
	With magnet	●	●	●	●	X		●		●	

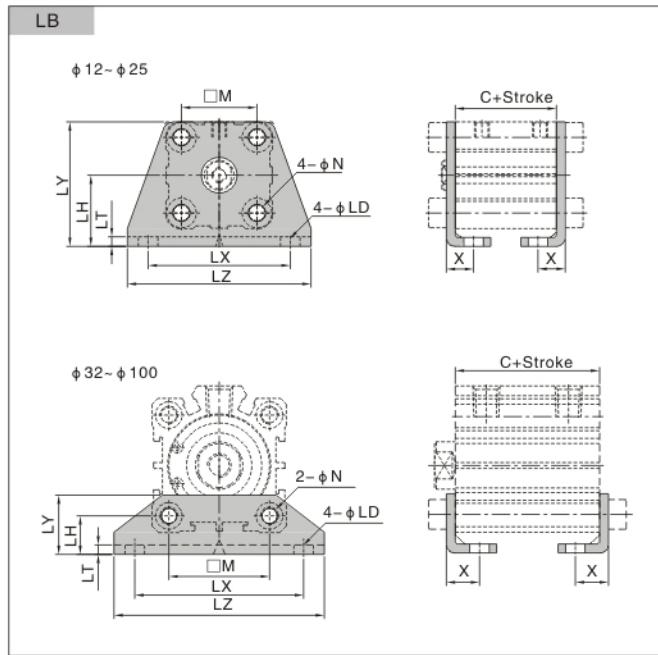
①: Please refer to PVI-33~VI-38 for knuckle detail;

②: Please refer to PVI-39~VI-50 for detail of sensor switch.

■ Material of accessories

Accessories	Mounting accessories				Joint accessories			
	FA	FB	CB	LB	Y	I	F	U
12~16	Aluminum alloy							
20, 25		Aluminum alloy						
32~100	Gray cast iron		SPCC	S45C				
					Cast steel			
						Cast steel		

Bore size	Without magnet		With magnet		M	N	N1	FD	FT	FV	FX	FZ		
	A	C	A	C										
	≤ 50	≥ 60	≤ 50	≥ 60										
12	20.5	—	17	—	31.5	28	15.5	4.5	7.5	4.5	5.5	25	45	55
16	22	—	18.5	—	34	30.5	20	4.5	7.5	4.5	5.5	30	45	55
20	24	34	19.5	29.5	36	31.5	25.5	6.5	10.5	6.5	8	39	48	60
25	27.5	37.5	22.5	32.5	37.5	32.5	28	6.5	10.5	6.5	8	42	52	64
32	30	40	23	33	40	33	34	6.5	10.5	5.5	8	48	56	65
40	36.5	46.5	29.5	39.5	46.5	39.5	40	6.5	10.5	5.5	8	54	62	72
50	38.5	48.5	30.5	40.5	48.5	40.5	50	8.5	13.5	6.5	9	67	76	89
63	44	54	36	46	54	46	60	10.5	16.5	9	9	80	92	108
80	53.5	63.5	43.5	53.5	63.5	53.5	77	12.5	18.5	11	11	99	116	134
100	65	75	53	63	75	63	94	12.5	18.5	11	11	117	136	154



Bore size	C ①		M	N	X	LD	LH	LT	LX	LY	LZ	
	Without magnet	With magnet										
	≤ 50	≥ 60										
12	17	—	28	15.5	4.5	8	4.5	17	2	34	29.5	44
16	18.5	—	30.5	20	4.5	8	4.5	19	2	38	33.5	48
20	19.5	29.5	31.5	25.5	6.5	9.2	6.5	24	3	48	42	62
25	22.5	32.5	32.5	28	6.5	10.7	6.5	26	3	52	46	66
32	23	33	33	34	6.5	11.2	6.5	13	3	57	20	71
40	29.5	39.5	39.5	40	6.5	11.2	6.5	13	3	64	20	78
50	30.5	40.5	40.5	50	8.5	12.2	8.5	14	3	79	22	95
63	36	46	46	60	10.5	13.7	10.5	16	3	95	26	113
80	43.5	53.5	53.5	77	13	16.5	13	20.5	4.5	118	32	140
100	53	63	63	94	13	23	13	24	6	137	36	162

①: Value C in the above table is only for ACQ series. Please refer to relevant content for value C of other series.

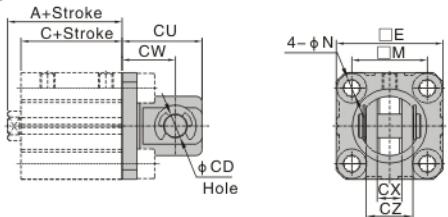
Compact cylinder

AirTAC

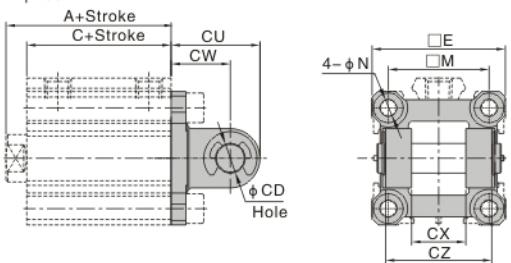
Accessories

CB

$\phi 12 \sim \phi 25$



$\phi 32 \sim \phi 100$



Item	Without magnet				With magnet				E	M	N	CD	CU	CW	CX	CZ
	Bore size	A ①	C			A	C									
Stroke	≤ 50	≥ 60	≤ 50	≥ 60												
12	20.5	—	17	—	31.5	28	25	15.5	4.5	5	20	14	5.3	9.8		
16	22	—	18.5	—	34	30.5	29	20	4.5	5	21	15	6.8	11.8		
20	24	34	19.5	29.5	36	31.5	36	25.5	6.5	8	27	18	8.3	15.8		
25	27.5	37.5	22.5	32.5	37.5	32.5	40	28	6.5	10	30	20	10.3	19.8		
32	30	40	23	33	40	33	45.5	34	6.5	10	30	20	18.3	35.8		
40	36.5	46.5	29.5	39.5	46.5	39.5	53.5	40	6.5	10	32	22	18.3	35.8		
50	38.5	48.5	30.5	40.5	48.5	40.5	64.5	50	8.5	14	42	28	22.3	43.8		
63	44	54	36	46	54	46	77.5	60	10.5	14	44	30	22.3	43.8		
80	53.5	63.5	43.5	53.5	63.5	53.5	98.5	77	12.5	18	56	38	28.3	55.8		
100	65	75	53	63	75	63	117.5	94	12.5	22	67	45	32.3	63.8		

①: Values of A and C in the above table are only for ACQ series. Please refer to relevant content for values of A and C of other series.

■ List for ordering code of accessories

Accessory	Mounting accessory				Knuckle				Sensor switch
	LB	FA	FB	CB	I:I Knuckle	Y:Y Knuckle	F:F Knuckle	U:U Knuckle	
12	F-ACQ12LB	F-ACQ12FA	F-ACQ12CB	F-M05080IQ	F-M05080YQ	—	F-M05080U		CS1-G
16	F-ACQ16LB	F-ACQ16FA	F-ACQ16CB	F-M06100IQ	F-M06100YQ	—	F-M06100U		
20	F-ACQ20LB	F-ACQ20FA	F-ACQ20CB	F-M08125IQ	F-M08125YQ	F-M08125F	F-M08125U		
25	F-ACQ25LB	F-ACQ25FA	F-ACQ25CB	F-M10125IQ	F-M10125YQ	F-M10125F	F-M10125U		
32	F-ACQ32LB	F-ACQ32FA	F-ACQ32CB	F-M14150IQ	F-M14150YQ	F-M14150F	F-M14150U		
40	F-ACQ40LB	F-ACQ40FA	F-ACQ40CB						CS1-J CS1-G
50	F-ACQ50LB	F-ACQ50FA	F-ACQ50CB	F-M18150IQ	F-M18150YQ	F-M18150F	F-M18150U		
63	F-ACQ63LB	F-ACQ63FA	F-ACQ63CB						
80	F-ACQ80LB	F-ACQ80FA	F-ACQ80CB	F-M22150IQ	F-M22150YQ	—	—		
100	F-ACQ100LB	F-ACQ100FA	F-ACQ100CB	F-M26150IQ	F-M26150YQ	—	—		

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