

Pneumatic Equipment

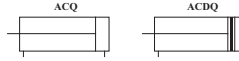
Compact Cylinder (ACQ ACDQ ACQW ACDQW ACQJ ACQJW ACQ-SA ACQ-TA Series)



Ordering Code

AC	D	Q	A	20 x 30	B	SA
Model	Magnet	Mounting	Bore size	Stroke	Thread	Action
ACQW: Double rod type ACQJ: Adjustable stroke type	Blank: Without magnet D: With magnet	Blank: Through-hole A: Both end tapped			Blank: Female thread B: Male thread	Blank: Double acting SA: Single acting spring return TA: Single acting spring extend

Symbol



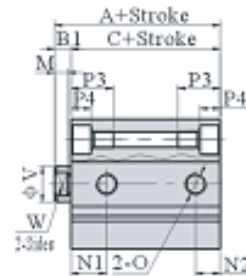
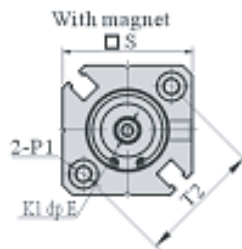
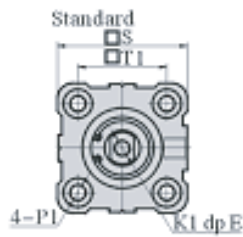
Specifications

Bore size	mm	12	16	20	25	32	40	50	63	80	100
Port size	inch	M5 X 0.8			1/8		1/4		3/8		
Action		Single acting spring return (SA), Single acting spring extend (TA)									
Media		Air									
Pressure range	kgf/cm ²	1.00 ~ 9.00									
Temperature range	°C	0 ~ 70									
Magnet type		Without magnet (Blank), With magnet (D)									
Rod type		Female thread (Blank), Male thread (B)									
Cushion type		Bumper									
Sensor switch type		CS1-R									

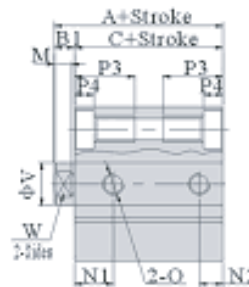
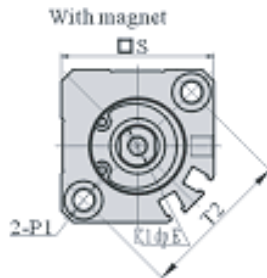
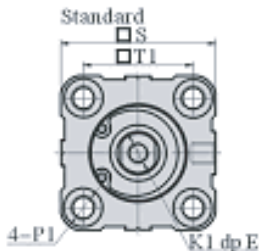
Dimensions

ACQ & ACDQ

Ø12~Ø16



Ø20~Ø25



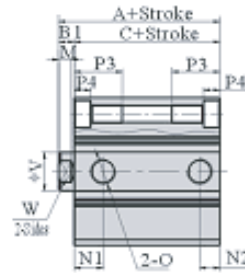
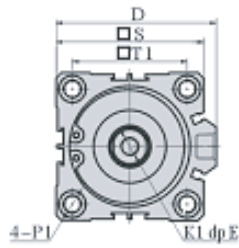
Type	Standard				With magnet		B1	D	E	K1	M	N1		N2	
	A		C		A	C						Standard	With magnet	Standard	With magnet
	Stroke < 50	Stroke > 60	Stroke < 50	Stroke > 60											
12	20.5	-	17	-	31.5	28	3.5	-	6	M3 x 0.5	3.5	7.5	9	5	7
16	22	-	18.5	-	34	30.5	3.5	-	8	M4 x 0.7	3	8	9.5	5.5	
20	24	34	19.5	29.5	36	31.5	4.5	-	7	M5 x 0.8	4	9	9.5	5.5	
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	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4				11	3.5	25	15.5	22	6	5
16	M5 x 0.8	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4				11	3.5	29	20	28	8	6
20	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2				17	7	36	25.5	36	10	8
25	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2				17	7	40	28	40	12	10

Dimensions

ACQ & ACDQ

Ø32~Ø100
(Stroke < 100)

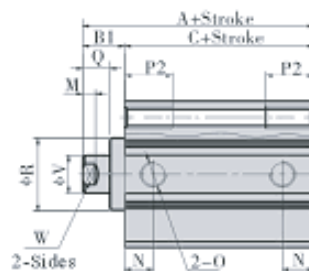
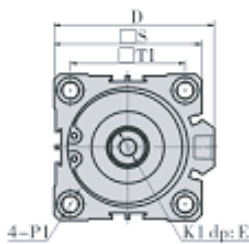


Type	Standard				With magnet		B1	D	E	K1	M	N1		N2		
	A		C		A	C						Standard	With magnet	Standard	With magnet	
	Stroke < 50	Stroke > 60	Stroke < 50	Stroke > 60												
32	Stroke = 5	30	40	23	33	40	33	7	49.5	13	M8 x 1.25	6	7.5	10.5	6.5	7.5
	Stroke > 5												10.5	7.5		
	40	36.5	46.5	29.5	39.5	46.5	39.5	7	57	13	M8 x 1.25	6	11	8		
50	Stroke = 5	38.5	48.5	30.5	40.5	48.5	40.5	8	71	15	M10 x 1.5	6.5	9	10.5	9.5	10.5
	Stroke > 5												10.5	10.5		
63	Stroke = 5	44	54	36	46	54	46	8	84	15	M10 x 1.5	6.5	14	15	9.5	10.5
	Stroke > 5												15	10.5		
	80	53.5	63.5	43.5	53.5	63.5	53.5	10	104	20	M16 x 2.0	8.5	16	14		
	100	65	75	53	63	75	63	12	123.5	26	M20 x 2.5	9.5	20	17.5		

Bore size\Item	O	P1	P3	P4	S	T1	T2	V	W
32	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	45	34	-	16	14
40	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	53	40	-	16	14
50	1/4"	Both sides:Ø11 Thread:M8 x 1.25 Thru.hole:Ø6.5	22	8	64	50	-	20	17
63	1/4"	Both sides:Ø14 Thread:M10 x 1.5 Thru.hole:Ø8.7	28.5	10.5	77	60	-	20	17
80	3/8"	Both sides:Ø17.5 Thread:M12 x 1.75 Thru.hole:Ø10.7	35.5	13.5	98	77	-	25	22
100	3/8"	Both sides:Ø17.5 Thread:M12 x 1.75 Thru.hole:Ø10.7	35.5	13.5	117	94	-	32	27

ACQ & ACDQ

Ø32~Ø100
(Stroke > 100)



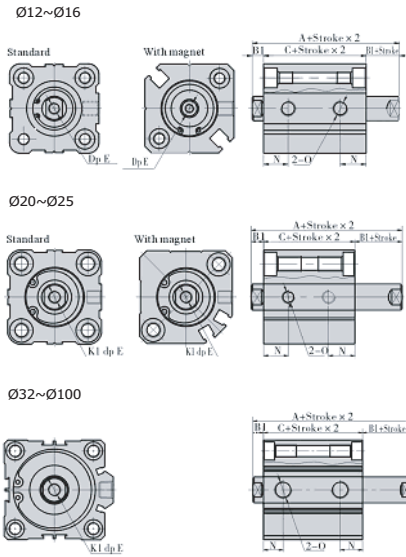
Bore size\Item	A	B1	C	D	E	K1	M	N	O					
32	62.5	17	45.5	49.5	13	M8 x 1.25	6	12.5	1/8"					
40	72	17	55	57	13	M8 x 1.25	6	14	1/8"					
50	73.5	18	55.5	71	15	M10 x 1.5	6.5	14	1/4"					
63	75	18	57	84	15	M10 x 1.5	6.5	16.5	1/4"					
80	86	20	66	104	21	M16 x 2.0	8.5	19	3/8"					
100	97.5	22	75.5	123.5	27	M20 x 2.5	10	23	3/8"					

Bore size\Item	P1	P2	Q	R	S	T	V	W		
32	Both sides M6 x 1.0 Thru.hole:Ø5.2	10	12	22	45	34	16	14		
40	Both sides M6 x 1.0 Thru.hole:Ø5.2	10	12	28	53	40	16	14		
50	Both sides M8 x 1.25 Thru.hole:Ø6.5	14	13	35	64	50	20	17		
63	Both sides M10 x 1.5 Thru.hole:Ø8.7	18	13	35	77	60	20	17		
80	Both sides M12 x 1.75 Thru.hole:Ø10.7	22	15	43	98	77	25	22		
100	Both sides M12 x 1.75 Thru.hole:Ø10.7	22	17	59	117	94	32	27		

Pneumatic Equipment

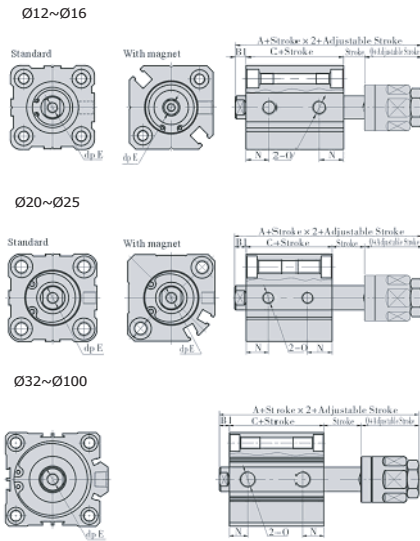
Dimensions

ACQW & ACDQW



Type Bore size\Item	Standard		With magnet		B1	E	N
	A	C	A	C			
12	32.2	25.2	39.4	32.4	3.5	6	9
16	33	26	43	36	3.5	8	9.5
20	35	26	47	38	4.5	7	9.5
25	39	29	49	39	5	12	11
32	44.5	30.5	54.5	40.5	7	13	10
40	54	40	64	50	7	13	13
50	56.5	40.5	66.5	50.5	8	15	13.5
63	58	42	68	52	8	12(S<10) 15(S>10)	14.5(S=5) 16(S>5)
80	71	51	81	61	10	14(S<15) 20(S>10)	16
100	84.5	60.5	94.5	70.5	12	20(S<25) 26(Other)	21

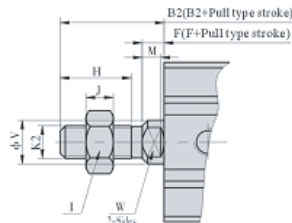
ACQJ & ACDQJ



Type Bore size\Item	Standard		With magnet		B1	E	N	Q
	A	C	A	C				
12	45.2	25.2	52.4	32.4	3.5	6	9	17
16	50	26	60	36	3.5	8	9.5	21
20	55	26	67	38	4.5	7	9.5	25
25	60.5	29	70.5	39	5	12	11	27
32	65.9	30.5	75.9	40.5	7	13	10	29
40	75.5	40	85.5	50	7	13	13	29
50	80	40.5	90	50.5	8	15	13.5	32
63	81.4	42	91.4	52	8	12(S<10) 15(S>10)	14.5(S=5) 16(S>5)	32
80	98.8	51	108.8	61	10	14(S<15) 20(S>10)	16	38.5
100	108.8	60.5	118.8	70.5	12	20(S<25) 26(Other)	21	37

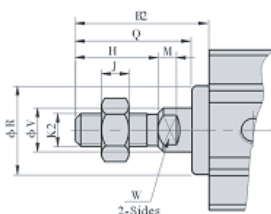
Male thread dimension

Bore size : Ø12~Ø100, Stroke < 100



Bore size\Item	B2	F	H	I	J	K2	M	V	W
12	14	3.5	9	8	4	M5 x 0.8	3.5	6	5
16	15.5	3.5	10	10	5	M6 x 1.0	3	8	6
20	18.5	4.5	12	12	6	M8 x 1.25	4	10	8
25	22.5	5	15	17	6	M10 x 1.25	4.5	12	10
32	28.5	5	20.5	19	8	M14 x 1.5	4	16	14
40	28.5	5	20.5	19	8	M14 x 1.5	4	16	14
50	33.5	5	26	27	11	M18 x 1.5	4	20	17
63	33.5	5	26	27	11	M18 x 1.5	4	20	17
80	43.5	8	32.5	32	13	M22 x 1.5	5.5	25	22
100	43.5	8	32.5	36	13	M26 x 1.5	6	32	27

Bore size : Ø32~Ø100, Stroke > 100

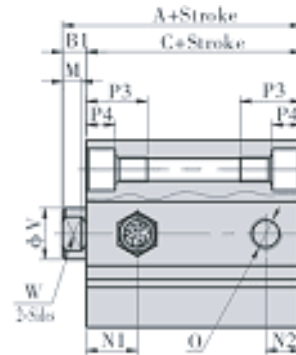
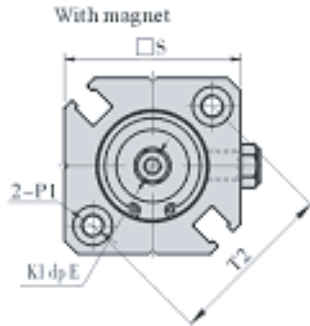
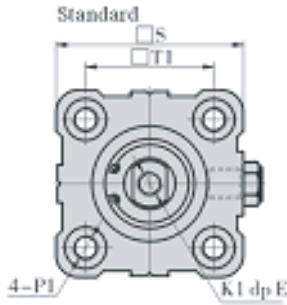


Bore size\Item	B2	H	J	K2	M	Q	R	V	W
32	38.5	23.5	8	M14 x 1.5	4	33.5	22	16	14
40	38.5	23.5	8	M14 x 1.5	4	33.5	28	16	14
50	43.5	28.5	11	M18 x 1.5	4	38.5	35	20	17
63	43.5	28.5	11	M18 x 1.5	4	38.5	35	20	17
80	53.5	35.5	13	M22 x 1.5	6	48.5	43	25	22
100	53.5	35.5	13	M26 x 1.5	5.5	48.5	59	32	27

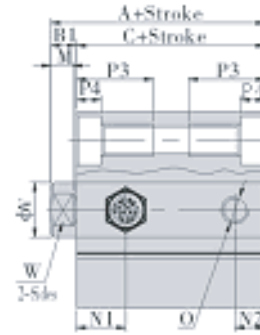
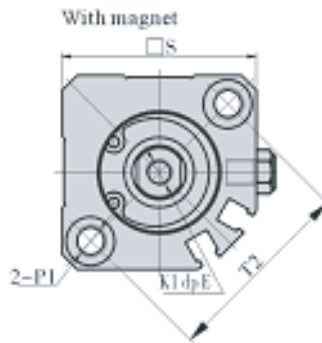
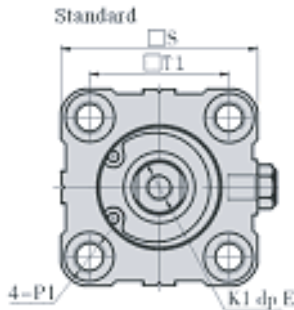
■ Dimensions

ACQ-SA & ACDQ-SA

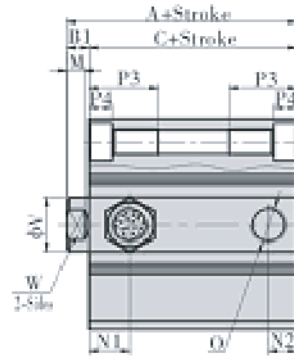
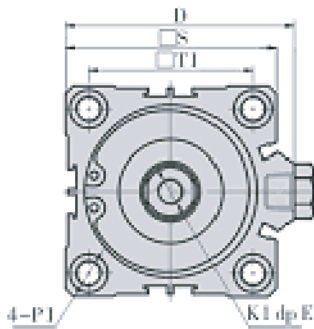
Ø12~Ø16



Ø20~Ø25



Ø32~Ø63



Type	Standard						With magnet						B1	D	E	K1	M	N1		N2	
	A			C			A			C								Standard	With magnet	Standard	With magnet
	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30									
12	25.5	30.5	-	22	27	-	36.5	41.5	-	33	38	-	3.5	-	6	M3 x 0.5	3.5	7.5	9	5	7
16	27	32	-	23.5	28.5	-	39	44	-	35.5	40.5	-	3.5	-	8	M4 x 0.7	3	8	9.5	5.5	5.5
20	29	34	39	24.5	29.5	34.5	41	46	51	36.5	41.5	46.5	4.5	-	7	M5 x 0.8	4	9	9.5	5.5	5.5
25	32.5	37.5	42.5	27.5	32.5	37.5	42.5	47.5	52.5	37.5	42.5	47.5	5	-	12	M6 x 1.0	4.5	11	-	-	5.5
32	35	40	45	28	33	38	45	50	55	38	43	48	7	49.5	13	M8 x 1.25	6	10.5	-	-	7.5
40	41.5	46.5	51.5	34.5	39.5	44.5	51.5	56.5	61.5	44.5	49.5	54.5	7	57	13	M8 x 1.25	6	11	-	-	8

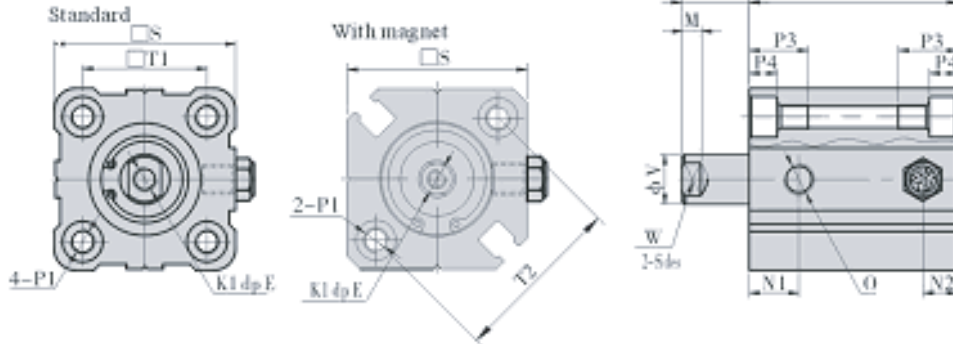
Bore size\Item	O	P1	P3	P4	S	T1	T2	V	W
12	M5 x 0.8	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4	11	3.5	25	15.5	22	6	5
16	M5 x 0.8	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4	11	3.5	29	20	28	8	6
20	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	36	25.5	36	10	8
25	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	40	28	40	12	10
32	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	45	34	-	16	14
40	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	53	40	-	16	14

Pneumatic Equipment

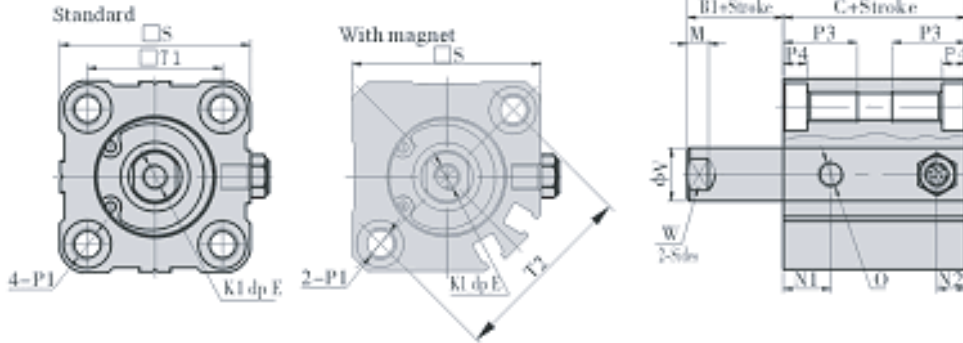
Dimensions

ACQ-TA & ACDQ-TA

Ø12~Ø16



Ø20~Ø25



Ø32~Ø63



Type	Standard						With magnet						B1	D	E	K1	M	N1		N2	
	A			C			A			C								Standard	With magnet	Standard	With magnet
	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30	5/10	15/20	25/30									
12	25.5	30.5	-	22	27	-	36.5	41.5	-	33	38	-	3.5	-	6	M3 x 0.5	3.5	7.5	9	5	7
16	27	32	-	23.5	28.5	-	39	44	-	35.5	40.5	-	3.5	-	8	M4 x 0.7	3	8	9.5	5.5	5.5
20	29	34	39	24.5	29.5	34.5	41	46	51	36.5	41.5	46.5	4.5	-	7	M5 x 0.8	4	9	9.5	5.5	5.5
25	32.5	37.5	42.5	27.5	32.5	37.5	42.5	47.5	52.5	37.5	42.5	47.5	5	-	12	M6 x 1.0	4.5	11	-	5.5	5.5
32	35	40	45	28	33	38	45	50	55	38	43	48	7	49.5	13	M8 x 1.25	6	10.5	-	7.5	7.5
40	41.5	46.5	51.5	34.5	39.5	44.5	51.5	56.5	61.5	44.5	49.5	54.5	7	57	13	M8 x 1.25	6	11	-	8	8

Bore size\Item	O	P1	P3	P4	S	T1	T2	V	W
12	M5 x 0.8	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4	11	3.5	25	15.5	22	6	5
16	M5 x 0.8	Both sides:Ø6.5 Thread:M4 x 0.7 Thru.hole:Ø3.4	11	3.5	29	20	28	8	6
20	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	36	25.5	36	10	8
25	M5 x 0.8	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	40	28	40	12	10
32	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	45	34	-	16	14
40	1/8"	Both sides:Ø9 Thread:M6 x 1.0 Thru.hole:Ø5.2	17	7	53	40	-	16	14