A

ADN Series Compact Cylinder(ISO21287)

ADN 32×30-S

Ordering Code

ADN — 50 × 50 — S — B

Series Code
ADN: Double Action Type
AEN: Single Action Type
ADND: Double-shaft Double Action Type
ADNJ: Double-shaft and Adjustable Stroke Type

Cylinder Bore
12mm~63mm

Stroke
Normal Type:
12-25: 1-300mm
32-63: 1-400mm
Single Action:
12: 1-10mm
16-63: 1-25mm

Magnet Code
Blank: Without Magnet
S: With Magnet

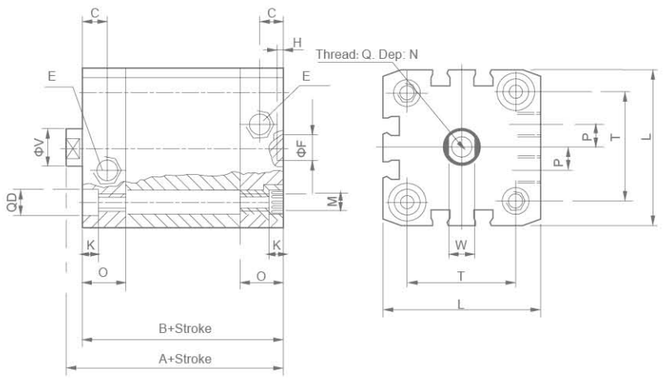
Cog Type
Blank: Inner Thread
B: Outer Thread

Specifcation

Bore(mm)	12	16	20	25	32	40	50	63
Operation	Double Acting							
Workinh Medium	Air							
Operating Pressure Range	0.1~1.0MPa							
Proof Pressure	1.5MPa							
Operating Temperature Range	-20~70℃							
Operating Speed Range	30~500mm/s							
Port Size	M5×0.8				G1/8"			

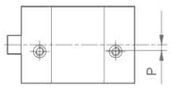
Overall Dimensions

Φ32~63



Φ12~25

Φ12



Dimension Sheet

Bore(mm)	A	B	V	O	C	E	M	D	K	H	F	N	Q	L	T	W	P
12	39.2	35	6	10.5	6	M5	M4	6	3.5	2.1	9	10	M4	27.5	16	5	2
16	39.7	35	8	11	6	M5	M4	6	3.5	2.1	9	10	M4	29	18	7	2.6
20	42.5	37	10	12	6	M5	M5	9	5	2.1	9	12	M6	35.5	22	9	2.6
25	44.5	39	10	12	6	M5	M5	9	5	2.1	9	12	M6	39.5	26	9	2.6
32	50	44	12	15	8.2	G1/8	M6	9	5	2.1	9	15	M8	47	32.5	10	6
40	51.1	45	12	15	8.2	G1/8	M6	9	5	2.1	9	15	M8	54.5	38	10	8
50	52.7	45	16	15	8.2	G1/8	M8	12	5	2.6	12	20	M10	65.5	46.5	13	8
63	56.5	49	16	15	8.2	G1/8	M8	12	5	2.6	12	20	M10	75.5	56.5	13	11.5

A

SDA Series Thin Type(Compact) Cylinder

SDA 32×25

SDAJ 32×25-10

Ordering Code

SDA — 20 × 30 — 5 — S — B

Series Code
SDA: Double Action Type
SSA: Single Action Extrusion Type
STA: Single Action Drawing-in Type
SDAD: Double-shalf Double Action Type
SDAJ:Double-shalf and Adjustable Stroke Type

Cylinder Bore
12mm~100mm

Stroke

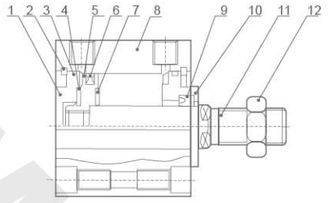
Adjust Stroke
5mm
15mm
25mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Cog Type
Blank:Inner Thread
B:Outer Thread
N:No Thread

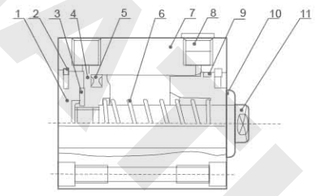
Internal structure

SDA Type



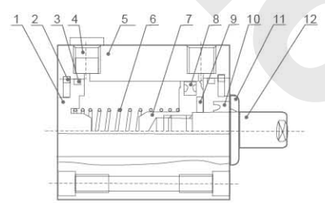
NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut

SSA Type



NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	Anti-crash cushion	4	Piston
5	Piston O-ring	6	Compressed spring
7	Barrel	8	Silencer
9	Cover O-ring	10	Front cover
11	Piston rod		

STA Type



NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	Cover O-ring	4	Silencer
5	Barrel	6	Compressed spring
7	Piston	8	Piston O-ring
9	Anti-crash cushion	10	Frount cover sealring
11	Front cover	12	Piston rod

A

SDA Series Thin Type(Compact) Cylinder

Specifcation

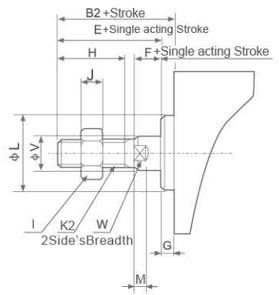
Bore(mm)		12	16	20	25	32	40	50	63	80	100
Motion Pattern		Double Action									
		Single Acting Extrusion type Single Acting Drawing-in Type						-			
Working Medium		Air									
Operating Pressure Range	Double Action	0.1~0.9MPa									
	Single Action	0.2~0.9MPa						-			
Ensured Pressure Resistance		1.35MPa									
Operating Temperature Range		-5~70℃									
Operating Speed Range	Double Action	30~500mm/s						30~350mm/s		30~250mm/s	
	Single Action	100~500mm/s						-			
Buffer Type		Fixed Type Buffer									
Port Size		M5×0.8				G1/8"		G1/4"		G3/8"	

Stroke

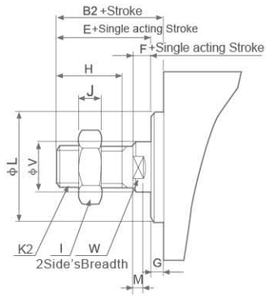
Bore(mm)		12	16	20	25		32	40	50	63	80	100
Double Action	Not attach magnet	5~60 mm Every 5mm is grouped as one grade		5~85 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100~110 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade			100~130 mm Every 5mm is grouped as one grade		
	Attach magnet	5~50 mm Every 5mm is grouped as one grade		5~75 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100mm	5~90 mm Every 5mm is grouped as one grade			100~130 mm Every 5mm is grouped as one grade		
Single Action	Not attach magnet	5~30 mm Every 5mm is grouped as one grade					5~30 mm Every 5mm is grouped as one grade			-		
	Attach magnet	5~30 mm Every 5mm is grouped as one grade					5~30 mm Every 5mm is grouped as one grade			-		
Max.Stroke		60mm		100mm	120mm		130mm					

Outer Thread Dimension

ϕ12~ϕ16



ϕ20~ϕ100



Dimension Sheet

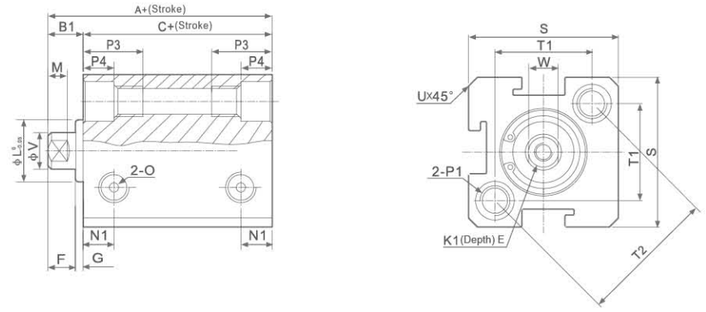
Bore/Symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	15	12	6	M10×1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10×1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14×1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18×1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M18×1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22×1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26×1.5	55	4	32	27

A

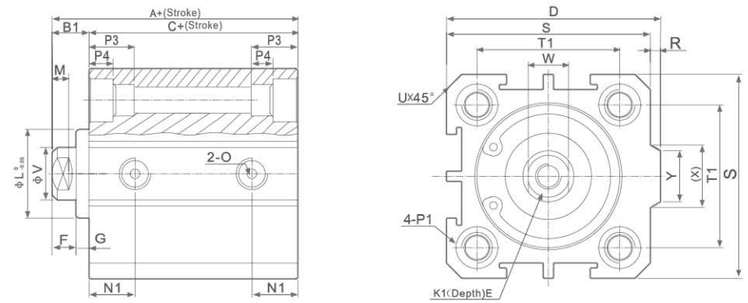
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDA.SDAS Type
Φ12-Φ16



SDA.SDAS Type
Φ20-Φ100



Dimension Sheet

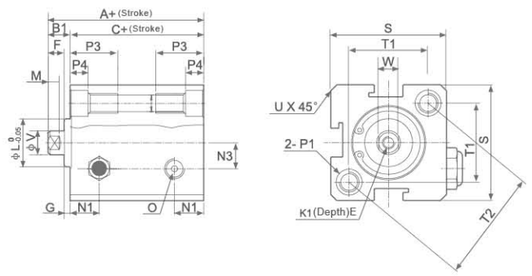
Type	Standard Type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	22	5	17	32	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4×0.7	15	2.8	7.5
25	27	6	21	37	6	31	42	10		4	2	M5×0.8	17	2.8	8
32	31.5	7	24.5	41.5	7	34.5	50	12		4	3	M6×1	22	2.8	9
40	33	7	28	43	7	36	58.5	12		4	3	M8×1.25	28	2.8	10
50	37	9	28	47	9	38	71.5	15		5	4	M10×1.5	38	2.8	10.5
63	41	9	32	51	9	42	84.5	15		5	4	M10×1.5	40	2.8	11.8
80	52	11	41	62	11	51	104	15	20	6	5	M14×1.5	45	4	14.5
100	63	12	51	73	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	28.7	20
63	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ14/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ17.5/Thread:M14×2/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

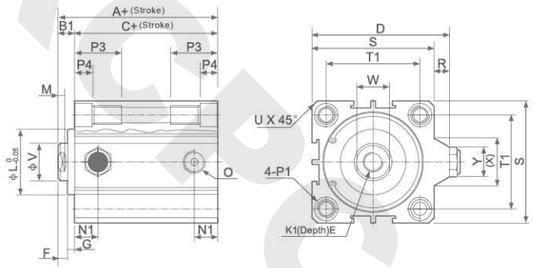
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

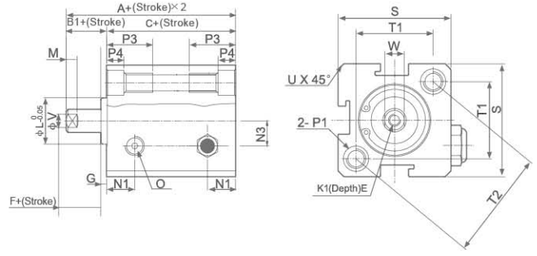
SSA.SSAS Type ϕ12– ϕ16



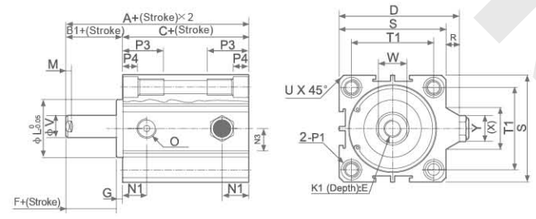
SSA.SSAS Type ϕ20– ϕ40



STA.STAS Type ϕ12– ϕ16



STA.STAS Type ϕ20– ϕ40



Dimension Sheet

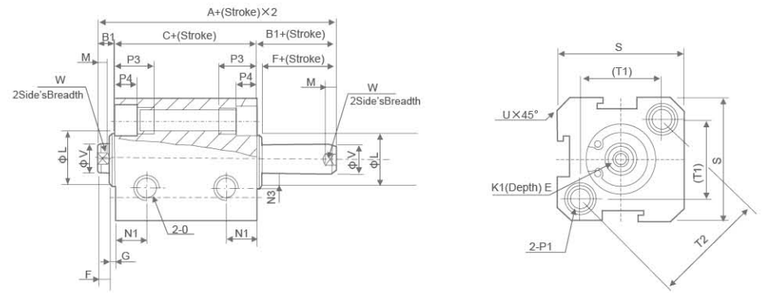
Type / Bore Stroke/ Symbol	Standard Type A ≤10	A >10	B1	C ≤10	C >10	Attach Magnet A ≤10	A >10	B1	C ≤10	C >10	D	E	F	G	K1	L	M	N1
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4×0.7	16	2.8	7.5
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5×0.8	17	2.8	8
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.4	50	12	4	3	M6×1	22	2.8	9
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8×1.25	28	2.8	10

Bore Stroke/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

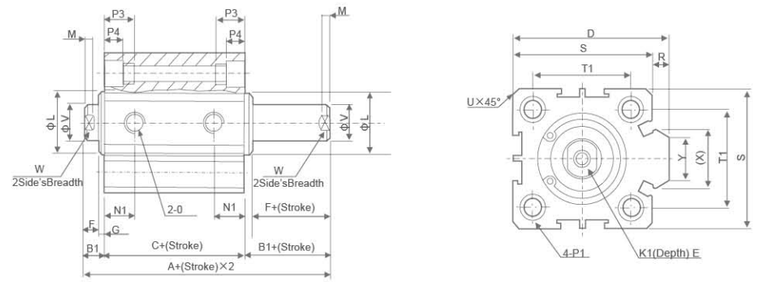
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDAD.SDADS Type Φ12~Φ16



SDAD.SDADS Type Φ20~Φ100



Dimension Sheet

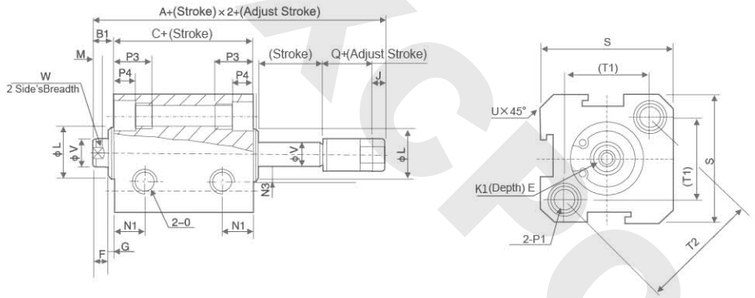
Type / Bore Size/Symbol	Standart Type A	B1	C	Attach Magnet A	B1	C	D	E Stroke≤10	E Stroke>10	F	G	K1	L	M	N1
12	27	5	17	37	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	29.5	5.5	18.5	39.5	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	30.5	5.5	19.5	40.5	5.5	29.5	36	8(Stroke=5/itis6.5)		4	1.5	M4×0.7	16	2.8	7.5
25	33	6	21	43	6	31	42	10(Stroke=5/itis7)		4	2	M5×0.8	17	2.8	8
32	38.5	7	24.5	48.5	7	34.5	50	8	12	4	3	M6×1	22	2.8	9
40	40	7	28	50	7	36	58.5	9	12	4	3	M8×1.25	28	2.8	10
50	46	9	28	56	9	38	71.5	11	15	5	4	M10×1.5	38	2.8	10.5
63	50	9	32	60	9	42	84.5	11	15	5	4	M10×1.5	40	2.8	11.8
80	63	11	41	73	11	51	104	14	20	6	5	M14×1.5	45	4	14.5
100	75	12	51	85	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ8.2/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ10/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides:Φ11/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ14/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ17.5/Thread:M14×2/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

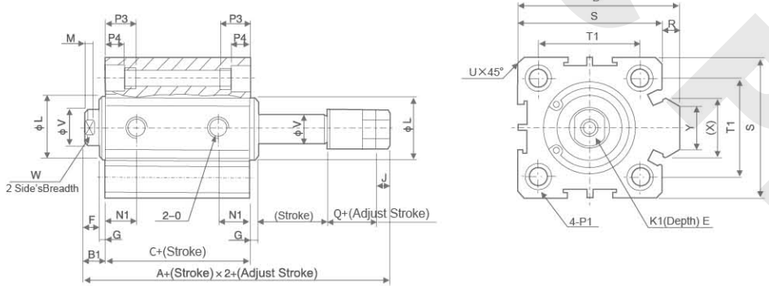
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

SDAJ.SDAJS Type
Φ12~Φ16



SDAJ.SDAJS Type
Φ20~Φ100



Dimension Sheet

Type	Standart Type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	22	5	17	32	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4×0.7	15	2.8	7.5
25	27	6	21	43	6	31	42	10		4	2	M5×0.8	17	2.8	8
32	31.5	7	24.5	41.5	7	34.5	50	12		4	2	M6×1	22	2.8	9
40	33	7	28	43	7	36	58.5	12		4	3	M8×1.25	28	2.8	10
50	37	9	28	47	9	38	71.5	15		5	4	M10×1.5	38	2.8	10.5
63	41	9	32	51	9	42	84.5	15		5	4	M10×1.5	40	2.8	11.8
80	52	11	41	62	11	51	104	15	20	6	5	M14×1.5	45	4	14.5
100	63	12	51	73	12	61	124	18	20	7	5	M18×1.5	55	4	20.5

Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	-	M5×0.8	Double Sides:Φ6.5/Thread:M6×1.0/Through ports:Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	-	G1/8"	Double Sides:Φ6.5/Thread:M6×1.0/Through ports:Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	-	G1/8"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	-	G1/4"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	-	G1/4"	Double Sides:Φ6.5/Thread:M8×1.25/Through ports:Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	-	G3/8"	Double Sides:Φ6.5/Thread:M12×1.75/Through ports:Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	-	G3/8"	Double Sides:Φ6.5/Thread:M12×1.75/Through ports:Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26

ACQ Series Thin Type(Compact) Cylinder

NEW!

ACQ 32×25

ACQJ 32×25-10

Ordering Code

ACQ	20	×	30	—	30	S	—	B

Series Code
ACQ: Double Action Type
ASQ:Single Action Extrusion Type
ATQ:Single Action Drawing-in Type
ACQD:: Double-shalf Double Action Type
ACQJ:Double-shalf and Adjustable Stroke Type

Cylinder Bore
12~100mm

Stroke

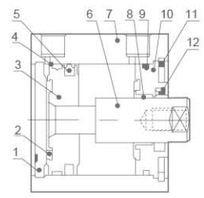
Adjust Stroke
10mm
20mm
30mm
40mm
50mm

Magnet Code
Blank:Without Magnet
S:With Magnet

Cog Type
Blank:Inner Thread
B:Outer Thread
N:No Thread

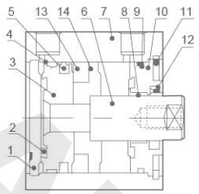
Internal structure

ACQ Type



NO	Designation	NO	Designation
1	Back Cover	2	Anti-Crash Cushion
3	Piston	4	Wear Proof Cushion
5	O-Ring	6	Piston Rod
7	Barrel	8	Bush
9	O-Ring	10	Front Cover
11	Type C Buckle Ring	12	Front Cover O-Ring

ACQS Type



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7	Barrel	8	Bush
9	O-Ring	10	Front Cover
11	Type C Buckle Ring	12	Front Cover O-Ring
13	Magnet	14	Magnet Holder

Specifcation

Bore(mm)		12	16	20	25	32	40	50	63	80	100
Motion Pattern		Double Action									
		Single Acting Extrusion type Single Acting Drawing-in Type									
Working Medium		Air									
Operating Pressure Range	Double Action	0.1~1.0MPa									
	Single Action	0.2~1.0MPa									
Ensured Pressure Resistance		1.5MPa									
Operating Temperature Range		-20~80℃									
Operating Speed Range	Double Action	30~500mm/s									
	Single Action	50~500mm/s									
Stroke Tolerance Range		Stroke≤150 $^{+1.0}_{0}$,Stroke ＞ 150 $^{+1.4}_{0}$									
Buffer Type		Anti-Crash Cushion									
Port Size		M5×0.8				G1/8"		G1/4"		G3/8"	