ADN Series Compact Cylinder(ISO21287)

ADN 32 x 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

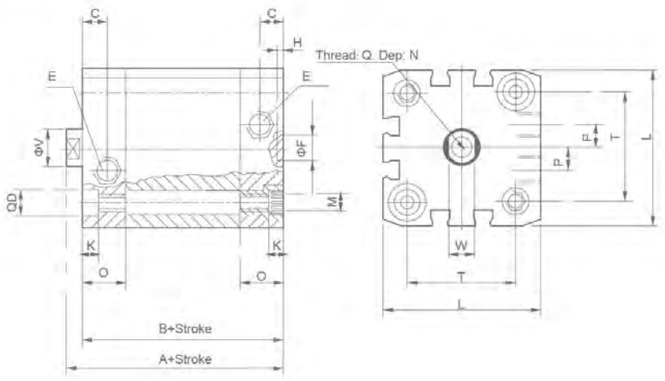
Cog Type
Blank: Inner Thread
B: Outer Thread

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"		

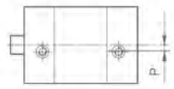
Overall Dimensions

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

SDA Series Thin Type(Compact) Cylinder

SDA 32 x 25

SDAJ 32 x 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

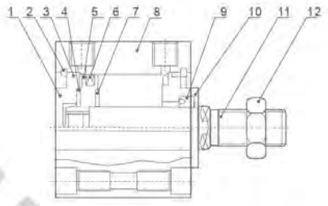
Adjust Stroke
5mm
15mm
25mm

Magnet Code
Blank:Without Magnet
S:With Magnet

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

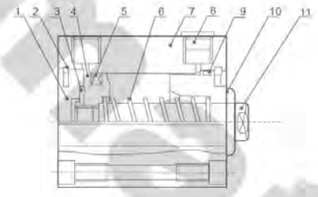
Internal structure

SDA Type



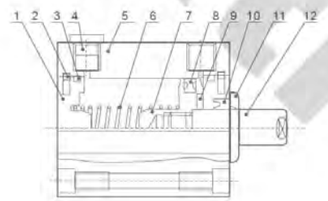
NO	Designation	NO	Designation
1	Back cover	2	Type C buckle ring
3	O-ring	4	Anti-crash cushion
5	Piston	6	Piston O-ring
7	Anti-crash cushion	8	Barrel
9	Front cover seal ring	10	Front cover
11	Piston rod	12	Piston Rod Nut

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

SDA Series Thin Type(Compact) Cylinder

Specifcation

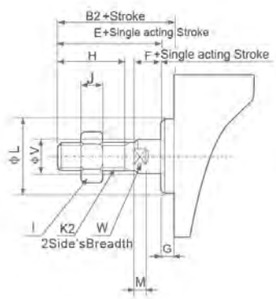
Bore(mm)		12	16	20	25	32	40	50	63	80	100
Motion Pattern		Single Acting Extrusion type			Single Acting Drawing-in Type		Double Action			-	
Working Medium		Air									
Operating Pressure Range	Double Action	0.1~0.9MPa									
	Single Action	0.2~0.9MPa								-	
Ensured Pressure Resistance		1.35MPa									
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

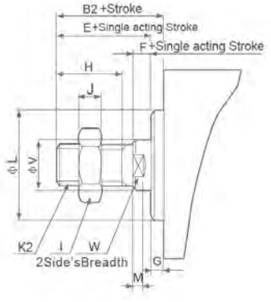
Bore(mm)		12	16	20	25		32	40	50	63	80	100
Double Action	Not attach magnet	5~60 mm Every 5mm is grouped as one grade		5~85 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade	100~110 mm Every 5mm is grouped as one grade	5~90 mm Every 5mm is grouped as one grade			100~130 mm 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



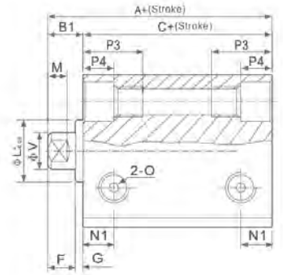
Dimension Sheet

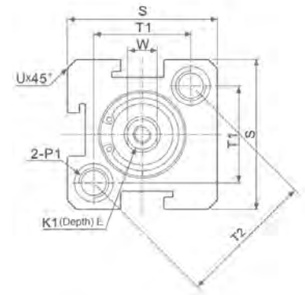
Bore/Symbol	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5×0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5×0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6×1.0	16	2.8	8	6
25	23	21	4	2	15	12	6	M10×1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M10×1.25	22	2.8	12	10
40	35	32	4	3	25	19	8	M14×1.5	28	2.8	16	14
50	37	33	5	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

SDA Series Thin Type(Compact) Cylinder

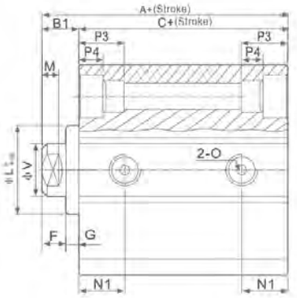
Overall Dimensions

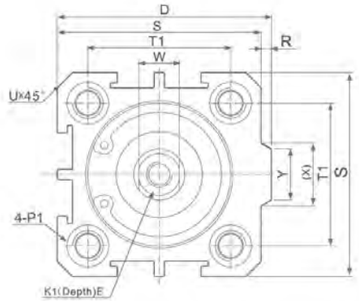
SDA.SDAS Type
Φ12-Φ16





SDA.SDAS Type
Φ20-Φ100





Dimension Sheet

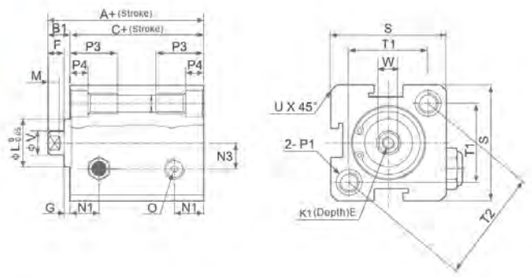
Type	Standard Type			Attach Magnet			D	E		F	G	K1	L	M	N1
Bore Size/Symbol	A	B1	C	A	B1	C		Stroke≤10	Stroke>10						
12	22	5	17	32	5	27	-	6		4	1	M3×0.5	10.2	2.8	6.3
16	24	5.5	18.5	34	5.5	28.5	-	6		4	1.5	M3×0.5	11	2.8	7.3
20	25	5.5	19.5	35	5.5	29.5	36	8		4	1.5	M4×0.7	15	2.8	7.5
25	27	6	21	37	6	31	42	10		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

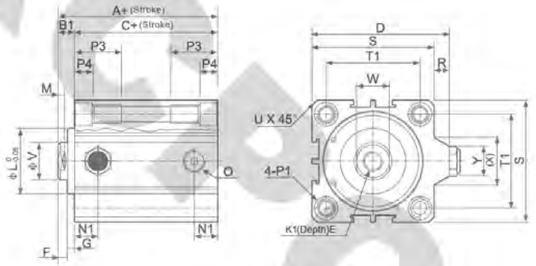
SDA Series Thin Type(Compact) Cylinder

Overall Dimensions

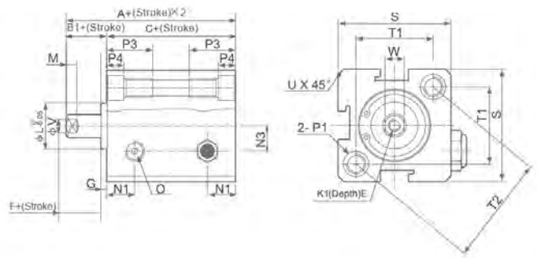
SSA.SSAS Type ϕ12– ϕ16



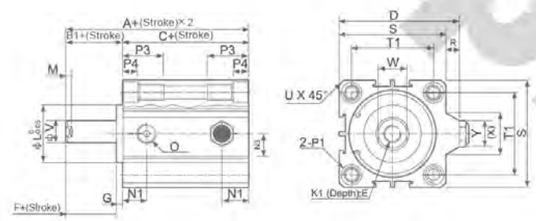
SSA.SSAS Type ϕ20– ϕ40



STA.STAS Type ϕ12– ϕ16



STA.STAS Type ϕ20– ϕ40



Dimension Sheet

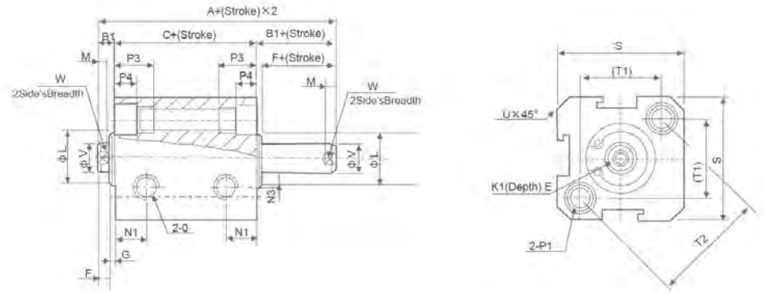
Type / Bore Stroke/ Symbol	Standard Type A ≤10	A >10	B1	C ≤10	C >10	Attach Magnet A ≤10	A >10	B1	C ≤10	C >10	D	E	F	G	K1	L	M	N1
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3×0.5	11	2.8	7.3
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	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

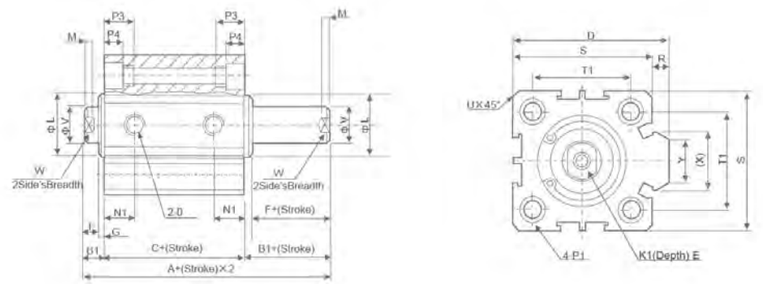
SDA Series Thin Type(Compact) Cylinder

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

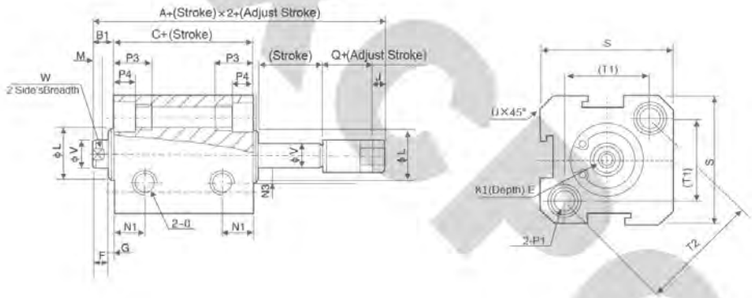
Bore Size/Symbol	N3	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	6	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	6.5	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	-	M5×0.8	Double Sides:Φ6.5/Thread:M5×0.8/Through ports:Φ4.2	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

A

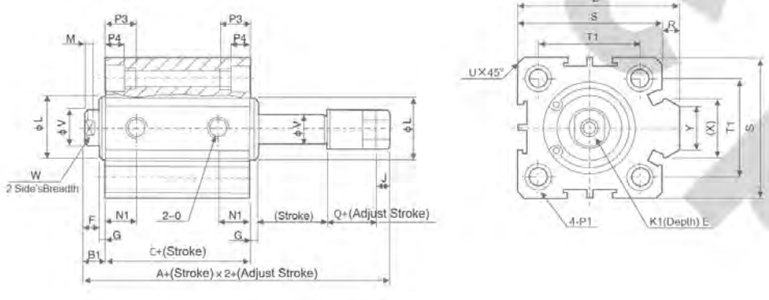
SDA Series Thin Type(Compact) Cylinder

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

CQ2 Series Compact Cylinder

CDQ2B 20×25D

CDQ2B 40×25

CQ2B 32×30-M

Ordering Code

CQ2 □ 12 × 10 D □

Series Code
CQ2:Normal Type
CDQ2:Attach magnet Type

Mounting Style
B:With through bore
A:With female thread on both ends

Cylinder Bore
Single action:12mm-50mm
Double action:12mm-100mm

Stroke
0~100mm

Action
D:Double action
S:Single action(with spring return)
T:Single action(with spring extent)

Cylinder body (optional)
Blank:Inner Thread
M:Outer Thread
C:With Cushion

Specifcation

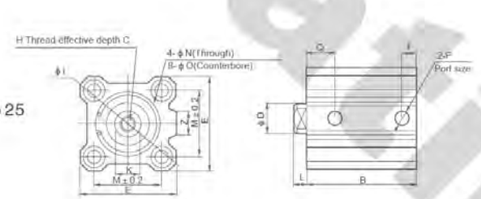
Bore(mm)	12	16	20	25	32	40	50	63	80	100
Working Medium	Air									
Motion Pattern	Double action/Single Action Extrusion type/Single Action Drawing-in Type									
Ensured Pressure Resistance	15.3kgf/cm²(1.5Mpa)									
Max.pressure	10.2kgf/cm²(1.0Mpa)									
Environment And Fluid Temp	5~+60℃									
Thread Type	Inner Thread(Standard)/Outer Thread(Optional)									
Buffering	NO									
Margin of Stroke Error(mm)	$^{+1.0}_{0}$									
Installation	Through Hole (Standard), Inner size on the two sides(Optional)									
Port size	M5×0.8			G1/8"			G1/4"		G3/8"	

■ Note:Pls Confirm Single Type Can't With Cushion.

Overall Dimensions

Through Hole Type/CQ2B Series

φ12~φ25



φ32~φ100