



Pin Cylinder

Series CJP Double Acting, Single Rod; Single Acting, Single Rod, Spring Return	1-001
Series CJ1 Single Acting, Single Rod, Spring Return	1-004

ISO / VDMA Standard Cylinder

Series DNC Double Acting, Single Rod / Double Rod	1-005
Series DNCB Double Acting, Single Rod	1-008
Series DNG Double Acting, Single Rod / Double Rod	1-010
Series C95 Double Acting, Single Rod / Double Rod	1-013
Series SI, SID, SIJ Double Acting, Single Rod / Double Rod	1-015

Standard Cylinder

Series CS1, CDS1 Double Acting, Single Rod	1-018
Series MB, MBW Double Acting, Single Rod / Double Rod	1-020
Series SU, SUD, SUJ Double Acting, Single Rod / Double Rod	1-022
Series SC, SCD, SCJ Double Acting, Single Rod / Double Rod	1-025

ISO Mini Cylinder

Series DSNU Double Acting, Single Rod / Double rod; Single Acting, Spring Return	1-028
Series C85 Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend	1-032

Mini Cylinder

Series CJ2 Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-039
Series CM2 Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-042
Series MA, MAC, MSA, MTA Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-045
Series MAL, MSAL, MTAL Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-048

Compact Cylinder

Series ADVU Double Acting, Single Rod / Double Rod	1-051
Series CQ2, CDQ2 Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend	1-054
Series CQS Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend	1-069
Series SDA, SSA, STA Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-074

Free Mount Cylinder

Series CU Double Acting, Single Rod; Single Acting, Spring Return / Extend	1-077
--	-------

Twin Rod Cylinder

Series DPZ, DPZJ Double Acting, Single Rod / Double Rod	1-080
Series CXS, CXSW Double Acting, Single Rod / Double Rod	1-084
Series TN Double Acting, Single Rod	1-091



Pneumatic Cylinder

Guide Rod Compact Cylinder	
Series ADVUL Double Acting, Single Rod / Double Rod	1-093
Series CQM Double Acting, Single Rod	1-095
Guide Cylinder	
Series MGP Double Acting, Single Rod	1-098
Series MGG Double Acting, Single Rod, Basic Type	1-102
Rotary Actuator	
Series CRA1 Rack & Pinion Style	1-105
Rodless Cylinder	
Series CY1B Basic Type	1-108
Auto Switch	
Series CS Auto Switch	1-110
Series D Auto Switch	1-111
Shock Absorber	
Series AC, AD Shock Absorber	1-114
Series HR Shock Absorber	1-116
Series RB Shock Absorber, Standard type	1-117
Series RBQ Shock Absorber, Short Type	1-119

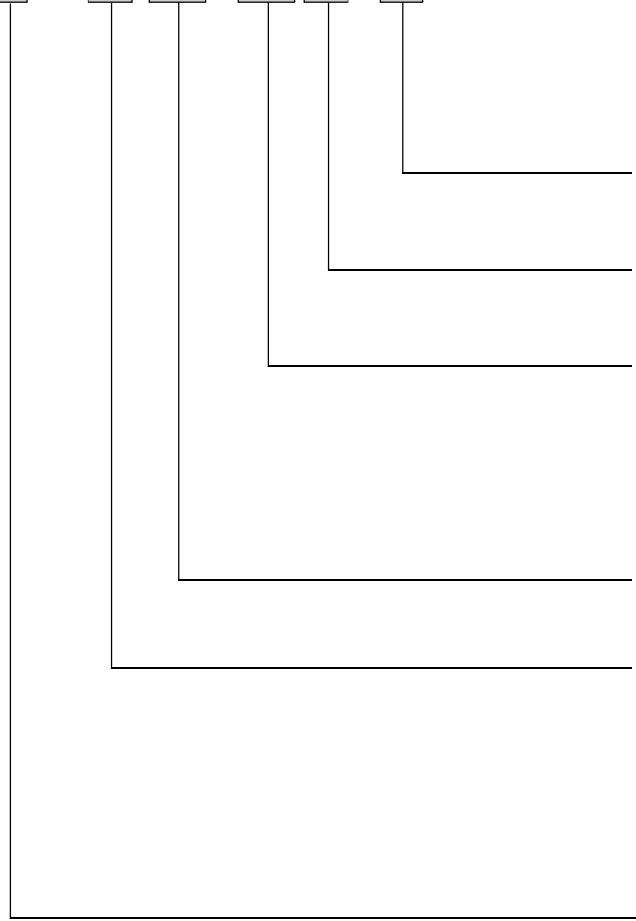
Pin Cylinder

Double Acting, Single Rod: Single Acting, Single Rod, Spring Return

Series CJP

◆ How to Order

C **D** JP **B** **10** - **15** **D** -



Rod end thread

Nil	With thread	B	Without thread
-----	-------------	----------	----------------

Action

D	Double acting
----------	---------------

Cylinder Stroke

Bore size(mm)	Standard stroke(mm)
6	5,10,15,20
10	5,10,15,20,(25)*,30
15	5,10,15,20,(25)*,30

*: 5mm spacer is installed in the 30mm stroke cylinder.

Bore size (mm)

6	10	15
----------	-----------	-----------

Mounting style

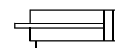
Symbol	Mounting type	Standard type	With auto switch
B	Basic style	●	●
F	Flange style	●	●
L	Foot style	●	●
D	Clevis style	●	-
T	Trunnion style	●	-

Magnet

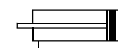
Nil	Without magnet	D	Built-in magnet
-----	----------------	----------	-----------------

Symbol

CJPB□-□D



CDJPB□-□D



◆ Specifications

Bore size (mm)	6	10	15
Action	Double acting, single rod		
Fluid	Filtered compressed air		
Proof pressure	1.05 MPa		
Operating pressure range	0.12~0.7 MPa	0.06~0.7 MPa	
Ambient and fluid temperature	-10~70°C (No freezing)		
Port size	M5 × 0.8		
Rod end configuration	With thread / without thread		
Piston rod thread	M3 × 0.5	M4 × 0.7	M5 × 0.8
Cushion	Rubber bumper		

Not): Please contact with ANSSION for the mounting accessories.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

Pin Cylinder

Double Acting, Single Rod; Single Acting, Single Rod, Spring Return

Series CJP

◆ How to Order

CJP **B** **10** - **15** □ □

Rod end thread

Nil	With thread	B	Without thread
-----	-------------	---	----------------

Nil

H4	Φ4 / For Φ2.5 tubing	H6	Φ6 / For Φ4 tubing
Nil	Without hose nipple		

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

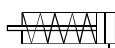
6	10	15
---	----	----

Mounting style

B	Panel mounting style	S	Plug mounting style
---	----------------------	---	---------------------



Symbol
CJPB□-□



◆ Specifications

Bore size (mm)	6	10	15
Action	Single acting, single rod		
Fluid	Filtered compressed air		
Proof pressure	1.05 MPa		
Operating pressure range	0.2~0.7 MPa	0.15~0.7 MPa	
Ambient and fluid temperature	-10~70°C (No freezing)		
Port size	M5×0.8		
Rod end configuration	With thread/Without thread		
Piston rod thread	M3×0.5	M4×0.7	M5×0.8
Cushion	None		
Mounting bracket	Panel mounting style		Plug mounting style
Accessory (Standard equipment)	Standard equipment	Mounting nut(2) Rod end nut*(2)	Mounting nut(1) Gasket(1) Rod end nut*(2)
	Option	Hose nipple	

* When Rod end is threaded.

◆ Standard Stroke

Bore size(mm)	Standard stroke(mm)
6	5,10,15
10	5,10,15
15	5,10,15

Piping

⚠ Caution

Use a dedicated hose nipple.

On the panel mounting style, use the CJ-5H-4 or CJ-5H-6, a dedicated hose nipple (with a fixed orifice) that is provided. If a different fitting must be used due to unavoidable circumstances, make sure to install a speed controller and use it by adjusting it to 500 mm/s or less.

Mounting

⚠ Caution

Do not use it in such a way that a load could be applied to the piston rod during the retraction.

The spring that is built into the cylinder provides only enough force to retract the piston rod. Thus, if a load is applied, the piston rod will not be able to retract to the end of the stroke.

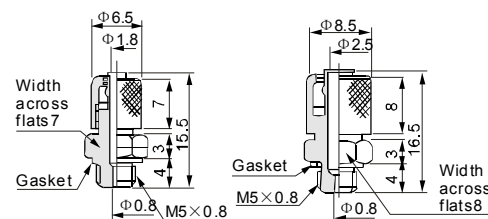
Hose nipple

CJ-5H-4

(Φ4For Φ2.5 tubing)

CJ-5H-6

(Φ6For Φ4 tubing)

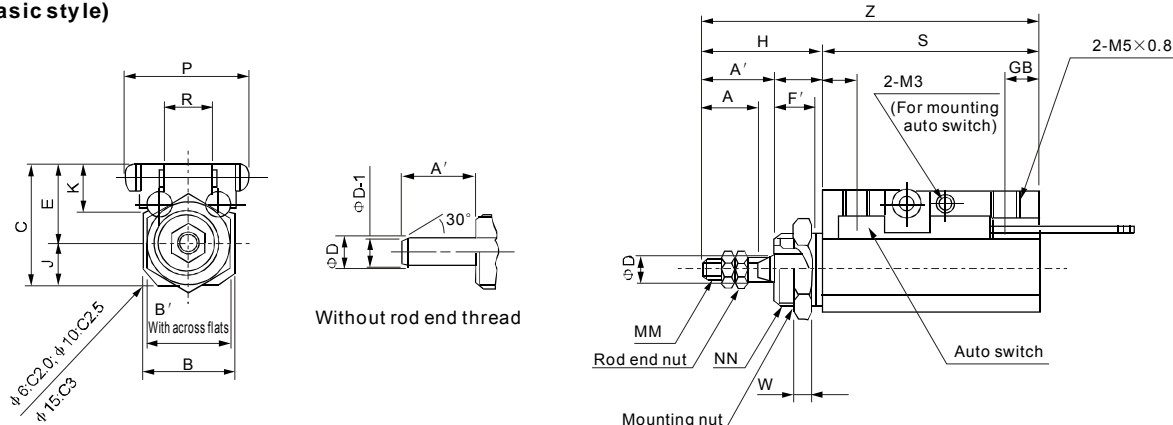


Pin Cylinder Series CJP

Double Acting, Single Rod: Single Acting, Single Rod, Spring Return

◆ Dimensions

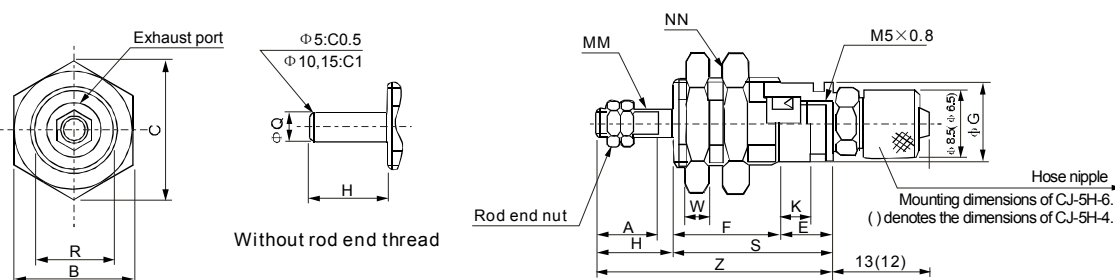
C(D)JPB□-□D (Basic style)



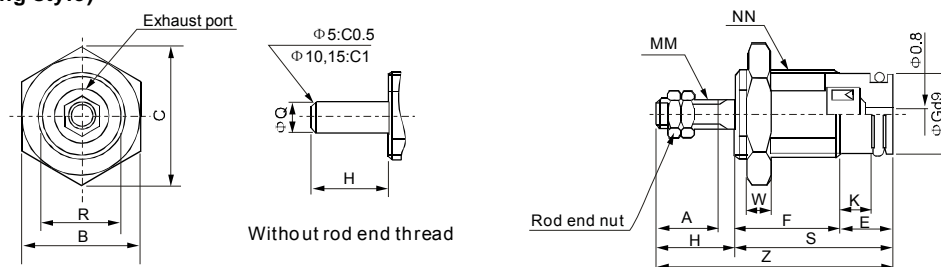
Bore size (mm)	A	A'	B	B'	D	F	F'	GA	GB	H	J	K	MM	NN
6	7	9	14	14	3	8	6.5	6	6	17	6	8	M3×0.5	M10×1.0
10	10	12	15	17	5	8	6.5	6	7	20	7	8	M4×0.7	M12×1.0
15	12	14	20	19	6	10	8.5	6	7	24	9	8	M5×0.8	M14×1.0

Bore size (mm)	R	S					W	Z					Built-in magnet		
		5 ST	10 ST	15 ST	20 ST	30 ST		5 ST	10 ST	15 ST	20 ST	30 ST	C	E	P
6	7	30.5	35.5	40.5	45.5	-	3	47.5	52.5	57.5	62.5	-	16.5	10.5	20
10	8	30.5	35.5	40.5	45.5	55.5	3	50.5	55.5	60.5	65.5	75.5	20	13	21
15	10	30.5	35.5	40.5	45.5	55.5	4	54.5	59.5	64.5	69.5	79.5	24.5	15.5	23

CJPB□-□ (Panel mounting style)



CJPS□-□ (Plug mounting style)



Bore size (mm)	A	B	C	E	F			G	H	K	MM	NN	R	S			W	Z			Q
					5 ST	10 ST	15 ST							5 ST	10 ST	15 ST		5 ST	10 ST	15 ST	
6	7	12	13.9	6	12.5	19.5	26.5	8.5	9	3.5	M3×0.5	M10×1.0	9	18.5	25.5	32.5	3	27.5	34.5	41.5	3
10	10	19	22	6	14.5	21	28	12	12	3.5	M4×0.7	M15×1.5	13	20.5	27	34	4	32.5	39	46	5
15	12	27	31	7	16.5	22.5	29	19	14	4.2	M5×0.8	M22×1.5	20	23.5	29.5	36	5	37.5	43.5	50	6

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

Pin Cylinder

Double Acting, Single Rod; Single Acting, Single Rod, Spring Return

Series CJP

◆ How to Order

CJP **B** **10** - **15** □ □

Rod end thread

Nil	With thread	B	Without thread
-----	-------------	---	----------------

Nil

H4	Φ4 / For Φ2.5 tubing	H6	Φ6 / For Φ4 tubing
Nil	Without hose nipple		

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

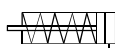
6	10	15
---	----	----

Mounting style

B	Panel mounting style	S	Plug mounting style
---	----------------------	---	---------------------



Symbol
CJPB□-□



◆ Specifications

Bore size (mm)	6	10	15
Action	Single acting, single rod		
Fluid	Filtered compressed air		
Proof pressure	1.05 MPa		
Operating pressure range	0.2~0.7 MPa	0.15~0.7 MPa	
Ambient and fluid temperature	-10~70°C (No freezing)		
Port size	M5×0.8		
Rod end configuration	With thread/Without thread		
Piston rod thread	M3×0.5	M4×0.7	M5×0.8
Cushion	None		
Mounting bracket	Panel mounting style		Plug mounting style
Accessory (Standard equipment)	Standard equipment	Mounting nut(2) Rod end nut*(2)	Mounting nut(1) Gasket(1) Rod end nut*(2)
	Option	Hose nipple	

* When Rod end is threaded.

◆ Standard Stroke

Bore size(mm)	Standard stroke(mm)
6	5,10,15
10	5,10,15
15	5,10,15

Piping

⚠ Caution

Use a dedicated hose nipple.

On the panel mounting style, use the CJ-5H-4 or CJ-5H-6, a dedicated hose nipple (with a fixed orifice) that is provided. If a different fitting must be used due to unavoidable circumstances, make sure to install a speed controller and use it by adjusting it to 500 mm/s or less.

Mounting

⚠ Caution

Do not use it in such a way that a load could be applied to the piston rod during the retraction.

The spring that is built into the cylinder provides only enough force to retract the piston rod. Thus, if a load is applied, the piston rod will not be able to retract to the end of the stroke.

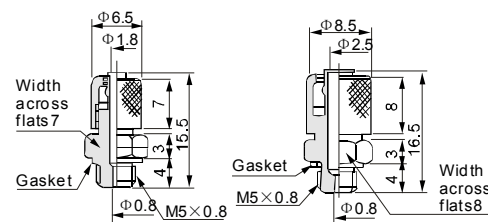
Hose nipple

CJ-5H-4

(Φ4For Φ2.5 tubing)

CJ-5H-6

(Φ6For Φ4 tubing)

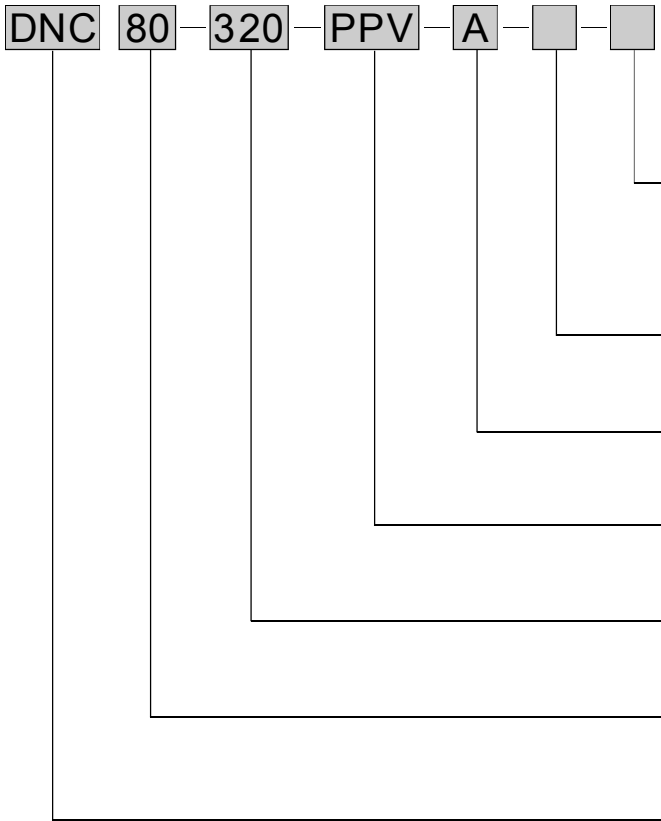


ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series DNC

◆ How to Order



Rod end thread

Nil	Basic type	K2	Extended male piston rod thread
K3	Female piston rod thread	K5	Special thread on piston rod
K7	Piston rod with external hexagon	K8	Extended piston rod

Piston rod

Nil	Single rod	S2	Double rod
------------	------------	-----------	------------

Magnet

Nil	Without magnet	A	Built-in magnet
------------	----------------	----------	-----------------

Cushion

PPV	Adjustable air cushion at both ends
------------	-------------------------------------

Cylinder Stroke (mm)

10...2000mm

Bore size (mm)

32	40	50	63	80	100	125
-----------	-----------	-----------	-----------	-----------	------------	------------

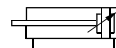
Model

DNC	Double acting	
Conforms to	■ ISO 15552	■ NFE 49003.1
	■ ISO 6431	■ UNI 10290
	■ VDMA 24562	

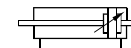


Symbol

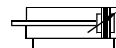
DNC□-□-PPV



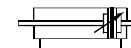
DNC□-□-PPV-S2



DNC□-□-PPV-A



DNC□-□-PPV-A-S2



I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA 1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

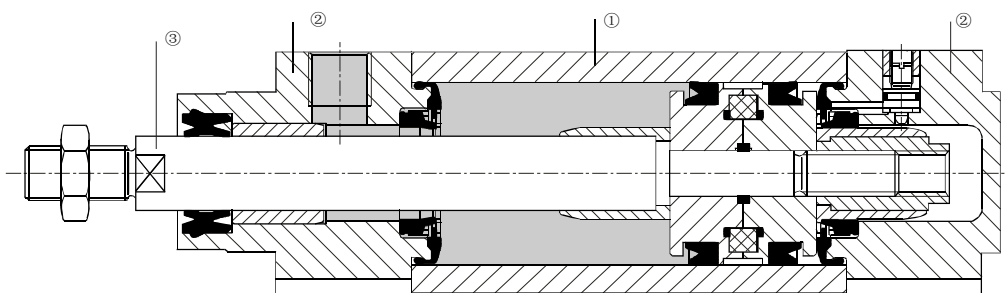
Series DNC

◆ Specifications

Bore size (mm)		32	40	50	63	80	100	125
Action	Double acting, single rod / double rod							
Fluid	Filtered compressed air							
Proof Pressure	1.5 Mpa							
Operating pressure range	0.05~1.0 Mpa							
Ambient and fluid temperature	-20~80°C (No freezing)							
Port size		G1/8	G1/4		G3/8		G1/2	
Piston rod thread	Basic type	M10×1.25	M12×1.25	M16×1.5		M20×1.5		M27×2.0
	K3	M6	M8	M10		M12		M16
	K5	M10	M12	M16		M20		M27
Cushion	Adjustable air cushion at both ends							

Note): Please contact with ANSSION for the mounting accessories.

◆ Materials

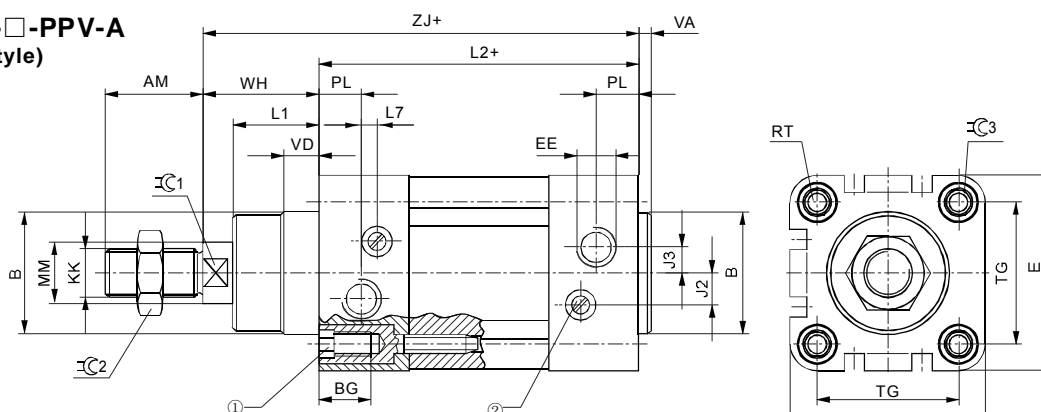


Basic type

① Cylinder barrel	Wrought aluminium alloy, smooth-anodised	③ Piston rod	High-alloy steel
② Bearing and end cap	Die-cast aluminium	Seals	Polyurethane, nitrile rubber

◆ Dimensions

DNC□-□-PPV-A
(Basic style)



- ① Socket head screw with female thread for mounting attachments
- ② Regulating screw for adjustable end-position cushioning

+ = plus stroke length

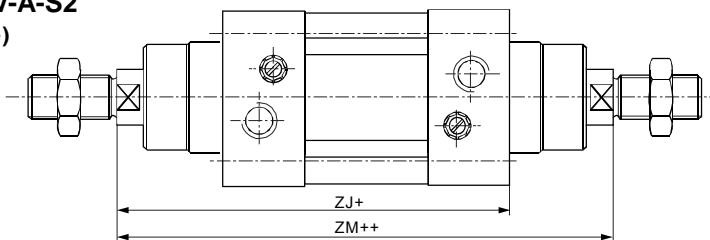
Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series DNC

DNC □-□-PPV-A-S2
(Double rod style)



+ = plus stroke length
++ = plus 2 stroke lengths

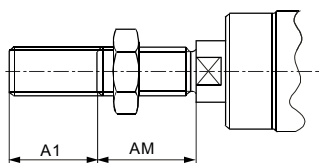
- - Note
The thread designs on both piston rod ends are identical.

Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

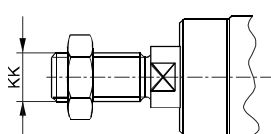
Bore size(mm)	AM	B φ d11	BG	E	EE	J2	J3	KK	L1	L2
32	22	30	16	45	G1/8	6	5.2	M10×1.25	18	94
40	24	35	16	54	G1/4	8	6	M12×1.25	21.5	105
50	32	40	17	64	G1/4	10.4	8.5	M16×1.5	28	106
63	32	45	17	75	G3/8	12.4	10	M16×1.5	28.5	121
80	40	45	17	93	G3/8	12.5	8	M20×1.5	34.7	128
100	40	55	17	110	G1/2	12	10	M20×1.5	38.2	138
125	54	60	22	134	G1/2	13	8	M27×2.0	46	160

Bore size (mm)	L7	MM φ	PL	RT	TG	VA	VD	WH	ZJ	∓C1	∓C2	∓C3	ZM
32	3.3	12	15.6	M6	32.5	4	10	26	120	10	16	6	148
40	3.6	16	14	M6	38	4	10.5	30	135	13	18	6	167
50	5.1	20	14	M8	46.5	4	11.5	37	143	17	24	8	183
63	6.6	20	17	M8	56.5	4	15	37	158	17	24	8	199
80	10.5	25	16.4	M10	72	4	15.7	46	174	22	30	6	222
100	8	25	18.8	M10	89	4	19.2	51	189	22	30	6	240
125	14	32	18	M12	110	6	20.5	65	225	27	36	8	291

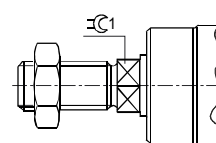
K2-Extended male piston rod thread



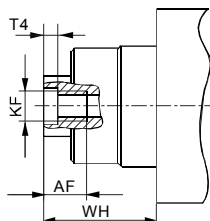
K5-Special piston rod thread



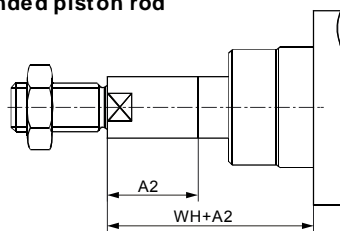
K7-Piston rod with external hexagon



K3-Female piston rod thread



K8-Extended piston rod



Bore size (mm)	A1 max.	A2 max.	AF	AM	KF	KK		T4	WH	∓C1
						Basic thread	Special thread ₁₎			
32	35	500	12	22	M6	M10×1.25	M10	2.6	26	10
40	35	500	12	24	M8	M12×1.25	M12	3.3	30	13
50	70	500	16	32	M10	M16×1.5	M16	4.7	37	17
63	70	500	16	32	M10	M16×1.5	M16	4.7	37	17
80	70	500	20	40	M12	M20×1.5	M20	6.1	46	22
100	70	500	20	40	M12	M20×1.5	M20	6.1	51	22
125	70	500	32	54	M16	M27×2.0	M27	8	65	27

1) The special threads are only available as male threads.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO / VDMA Standard Cylinder

Double Acting, Single Rod

Series DNCB

◆ How to Order

DNCB **80** - **50** - **PPV** - **A**

Magnet

Nil	Without magnet	A	Built-in magnet
------------	----------------	----------	-----------------

Cushion

PPV	Adjustable air cushion at both ends
------------	-------------------------------------

Cylinder Stroke (mm)

10...2000mm

Bore size (mm)

32	40	50	63	80	100
-----------	-----------	-----------	-----------	-----------	------------

Model

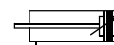
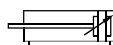
DNCB	Double-acting	
Conforms to	■ ISO 15552	■ NFE 49003.1
	■ ISO 6431	■ UNI 10290
	■ VDMA 24562	



Symbol

DNCB□-□-PPV

DNCB□-□-PPV-A



◆ Specifications

Bore size (mm)	32	40	50	63	80	100
Action	Double acting, single rod					
Fluid	Filtered compressed air					
Proof Pressure	1.5 Mpa					
Operating pressure range	0.05~1.0 Mpa					
Ambient and fluid temperature	-20~80℃(No freezing)					
Port size	G 1/8	G1/4		G3/8		G1/2
Piston rod thread	M10×1.25	M12×1.25	M16×1.5		M20×1.5	
Cushion	Adjustable air cushion at both ends					

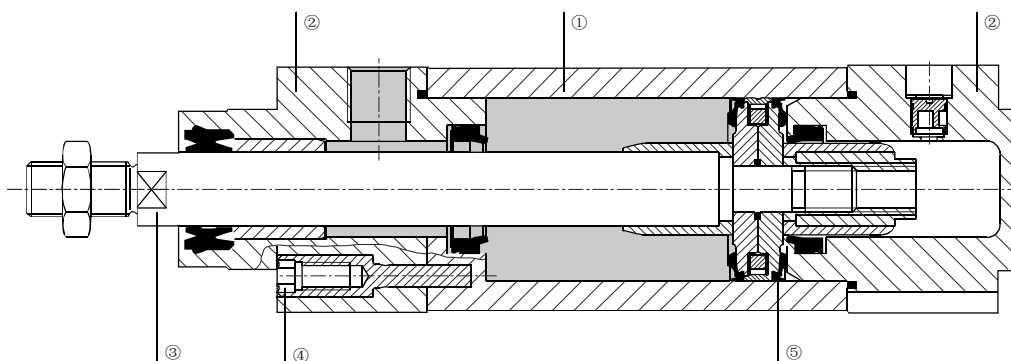
Note): Please contact with ANSSION for the mounting accessories.

ISO / VDMA Standard Cylinder

Double Acting, Single Rod

Series DNCB

◆ Materials

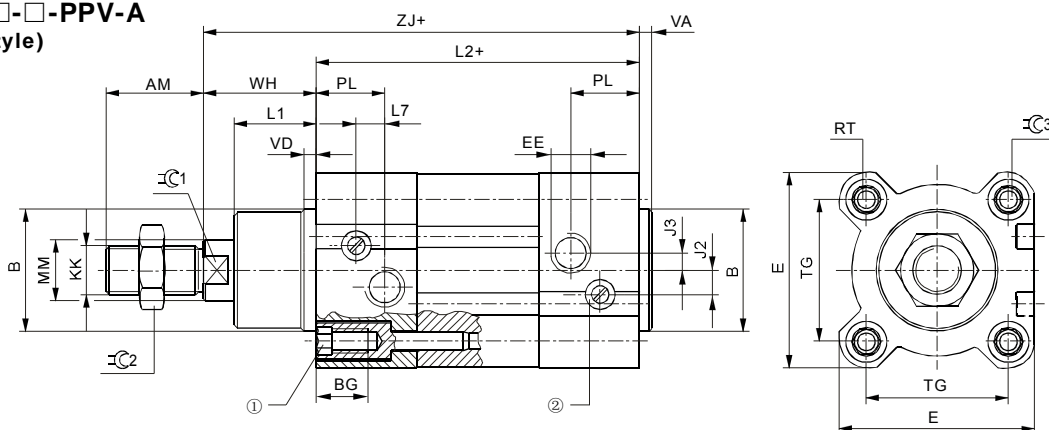


Basic type

① Cylinder barrel	Wrought aluminium alloy	④ Flange screws	Tempered steel
② Bearing/end caps	Wrought aluminium alloy	⑤ Dynamic seals	Polyurethane
③ Piston rod	High-alloy steel		

◆ Dimensions

DNCB□-□-PPV-A
(Basic style)



① Socket head screw with female thread for mounting attachments

② Regulating screw for adjustable end-position cushioning

+ = plus stroke length

Note): The dimensions of built-in magnet type cylinder are exactly the same as without magnet type cylinder.

Bore size(mm)	AM	B φ d11	BG	E	EE	J2	J3	KK	L1	L2	L2
32	22	30	16	45	G1/8	5.25	5.7	M10×1.25	18	94	6.5
40	24	35	16	54	G1/4	8	4	M12×1.25	21.3	105	7.5
50	32	40	17	64	G1/4	8	5.5	M16×1.5	26.8	106	9.5
63	32	45	17	75	G3/8	12.75	6.25	M16×1.5	27	121	9
80	40	45	17	93	G3/8	12.5	8	M20×1.5	34.2	128	11
100	40	55	17	110	G1/2	13.5	10	M20×1.5	38	138	7.5

Bore size(mm)	MM φ f8	PL	RT	TG	VA	VD	WH	ZJ	⊖C1	⊖C2	⊖C3
32	12	19.5	M6	32.5	4	4	26	120	10	16	6
40	16	22.5	M6	38	4	4	30	135	13	18	6
50	20	22.5	M8	46.5	4	4	37	143	17	24	8
63	20	27.5	M8	56.5	4	4	37	158	17	24	8
80	25	30	M10	72	4	4	46	174	22	30	6
100	25	31.5	M10	89	4	4	51	189	22	30	6

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series DNG

◆ How to Order

DNG 80-320-PPV-A-□

Piston rod

Nil	Single rod	S2	Double rod
S3	Stainless steel piston rod		

Magnet

Nil	Without magnet	A	Build-in magnet
------------	----------------	----------	-----------------

Cushion

PPV	Adjustable air cushion at both ends
------------	-------------------------------------

Cylinder stroke (mm)

10...2000mm

Bore size (mm)

32	40	50	63	80	100
-----------	-----------	-----------	-----------	-----------	------------

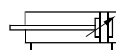
Model

DNG	Double-acting	
Conforms to	■ ISO 15552	■ NFE 49003.1
	■ ISO 6431	■ UNI 10290
	■ VDMA 24562	

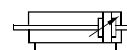


Symbol

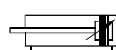
DNG□-□-PPV



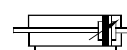
DNG□-□-PPV-S2



DNG□-□-PPV-A



DNG□-□-PPV-A-S2



◆ Specifications

Bore size (mm)	32	40	50	63	80	100
Action	Double acting, single rod / double rod					
Fluid	Filtered compressed air					
Proof Pressure	1.5MPa					
Operating pressure range	0.05~1.0 MPa					
Ambient and fluid temperature	-20~80°C (No freezing)					
Port size	G1/8	G1/4		G3/8		G1/2
Piston rod thread	M10×1.25	M12×1.25	M16×1.5		M20×1.5	
Cushion	Adjustable air cushion at both ends					

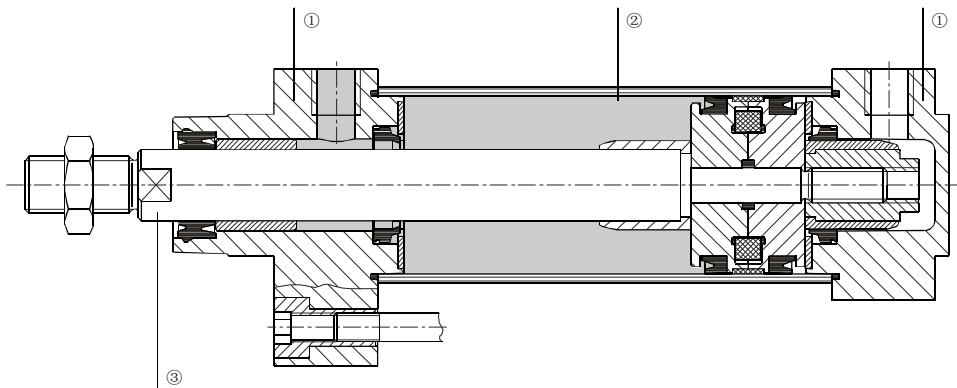
Note): Please contact with ANSSION for the mounting accessories.

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series DNG

◆ Materials

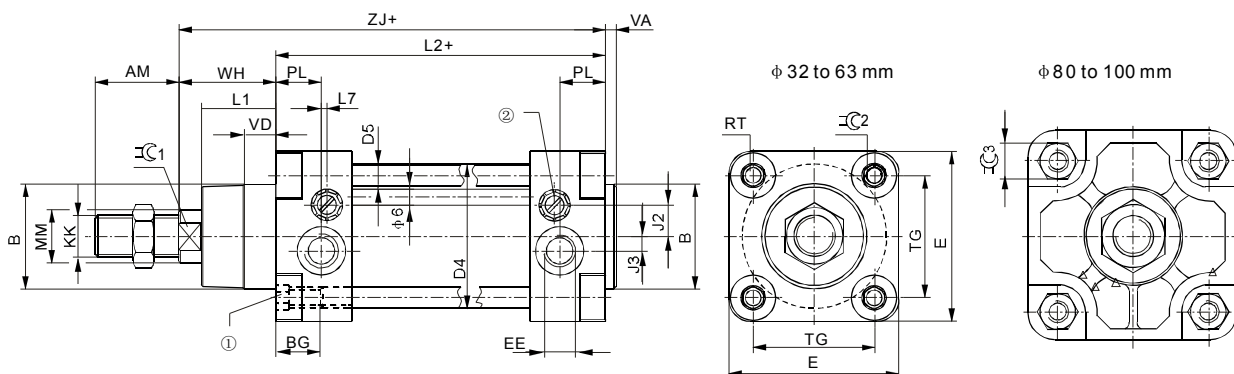


DNG Basic type

① Bearing and end caps	Aluminium	③ Piston rod, tie rod	High-alloy steel
② Cylinder barrel	Aluminium	-Seals	Polyurethane, nitrile rubber

◆ Dimensions

DNG □-□-PPV-A (Basic style)

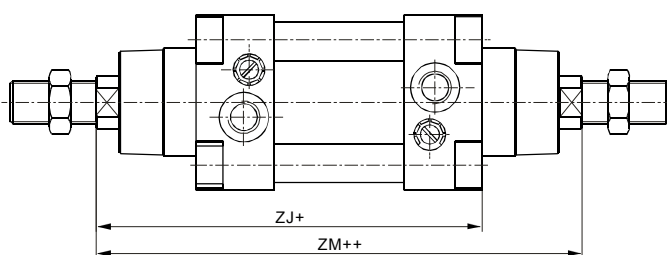


① Socket head screw with female thread for mounting attachments

② Regulating screw for adjustable end-position cushioning

Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

DNG □-□-PPV-A-S2 (Double rod style)



+ = plus stroke length
++ = plus 2x stroke length

Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series DNG

Bore size(mm)	AM	B \varnothing d11	BG	D4 \varnothing	D5 \varnothing	E	EE	J2	J3
32	22	30	17	37	6	50	G1/8	7	-
40	24	35	16.5	45	6	55	G1/4	9.5	2.5
50	32	40	17	55	8	65	G1/4	12	5.5
63	32	45	19.5	68	8	75	G3/8	14	6
80	40	45	20	86	10	100	G3/8	15	7
100	40	55	20	107	10	120	G1/2	13	8

Bore size(mm)	KK	L1	L2	L7	MM \varnothing f8	PL	RT	TG	TK
32	M10 \times 1.25	19	94 \pm 0.4	5.8	12	8.8	M6	32.5	20
40	M12 \times 1.25	21.5	105 \pm 0.7	5.3	16	11	M6	38	25
50	M16 \times 1.5	28.5	106 \pm 0.7	2	20	17.5	M8	46.5	28
63	M16 \times 1.5	28.5	121 \pm 0.8	5	20	18	M8	56.5	30
80	M20 \times 1.5	34.5	128 \pm 0.8	8	25	17	M10	72	32
100	M20 \times 1.5	37.5	138 \pm 0.8	13	25	18	M10	89	38

Bore size(mm)	VA	VD	WH	ZJ	ZM	\varnothing C1	\varnothing C2	\varnothing C3
32	4	10.5	26	120	146	10	6	-
40	4	10.5	30	135	165	13	6	-
50	4	12	37	143	180	17	8	-
63	4	12.5	37	158	195	17	8	-
80	4	16.5	46	174	220	22	-	17
100	4	15.5	51	189	240	22	-	17

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series C95

◆ How to Order

C95S D B 32 - 100 - W

Piston Rod

Nil	Single rod
W	Double rod
R	Stainless steel piston Rod

Cylinder stroke

* Refer to "standard stroke" .

Bore size (mm)

32	40	50	63	80	100
----	----	----	----	----	-----

Mounting style

B	Basic style	C	Single clevis style
L	Axial foot style	D	Double clevis style
F	Rod side flange style	T	Center trunnion style
G	Head side flang style		

Magnet

Nil	Without magnet	D	Built-in magnet
-----	----------------	---	-----------------

Model

C95	Double-acting
Conforms to	<ul style="list-style-type: none"> ■ ISO 6431 ■ CETOP RP43P ■ VDMA 24562



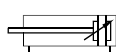
◆ Specifications

Bore size (mm)	32	40	50	63	80	100
Action	Double acting , single rod/ double rod					
Fluid	Filtered compressed air					
Proof pressure	1.5 MPa					
Operating pressure range	0.05~1.0 MPa					
Ambient and fluid temperature	-10 to 70°C (No freezing)					
Port size	G 1/8	G 1/4	G 3/8		G 1/2	
Piston rod thread	M10×1.25	M12×1.25	M16×1.5		M20×1.5	
Cushion	Adjustable air cushion at both ends					

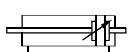
Note): Please contact with ANSSION for the mounting accessories.

Symbol

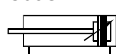
C95SB□-□



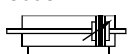
C95SB□-□-W



C95SDB□-□



C95SDB□-□-W



32						
40						
50						
63						
80						
100						

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

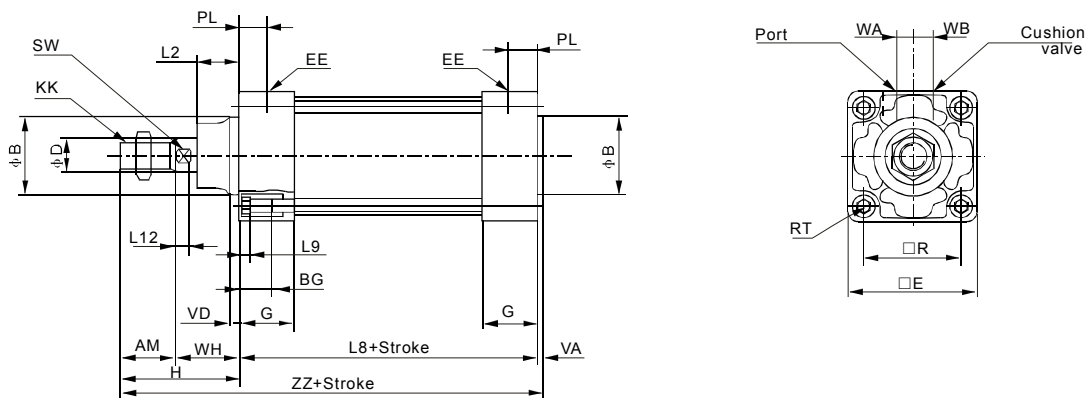
ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series C95

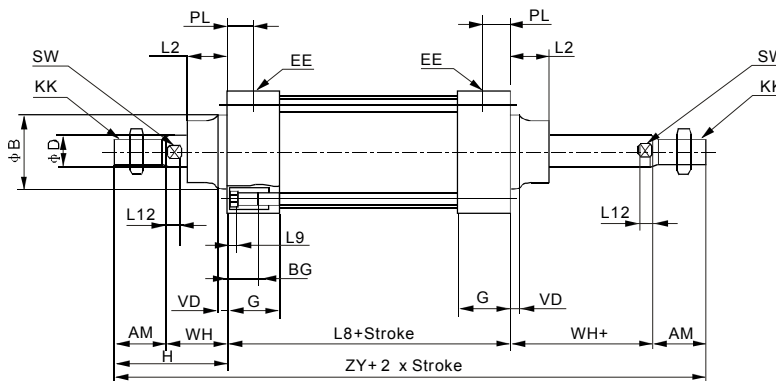
◆ Dimensions

C95S(D)B□-□
(Basic style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

C95S(D)B□-□-W
(Double rod style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

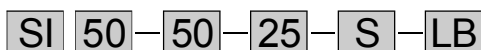
Bore size (mm)	AM	ϕ B e11	ϕ D	EE	PL	RT	1L2	KK	SW	G	BG (M/N)	L8	VD	VA	WA	WB	WH	ZZ	ZY	□ E	□ R	L2	L9
32	22	30	12	G1/8	13	M6×1.0	6	M10×1.25	10	27	16	94	4	4	4	6.5	26	146	190	46	32.5	15	4
40	24	35	16	G1/4	14	M6×1.0	6.5	M12×1.25	13	27	16	105	4	4	4	9	30	163	213	52	38	17	4
50	32	40	20	G1/4	15.5	M8×1.25	8	M16×1.5	16	31.5	16	106	6	4	5	10.5	37	179	244	65	46.5	24	5
63	32	45	20	G3/8	16.5	M8×1.25	8	M16×1.5	16	31.5	16	121	6	4	9	12	37	194	259	75	56.5	24	5
80	40	45	25	G3/8	19	M10×1.5	10	M20×1.5	21	38	16	128	8	4	11.5	14	46	218	300	95	72	30	5
100	40	5	30	G1/2	19	M10×1.5	10	M20×1.5	21	38	16	138	8	4	17	15	51	233	320	114	89	32	5

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

Series SI, SID, SIJ

◆ How to Order



Mounting style

SI Series

Nil	LB	FA	FB	CA
CB	TC	TC-M-1	TC-M-2	
Available only for $\Phi 32 \sim \Phi 100$				

SID Series

Nil	LB	FA	TC	TC-M-1	TC-M-2
Available only for $\Phi 32 \sim \Phi 100$					

SIJ Series

Nil	LB	FA	TC	TC-M-1	TC-M-2
Available only for $\Phi 32 \sim \Phi 100$					

Magnet

Nil	Without magnet	S	Built-in magnet
-----	----------------	---	-----------------

Adjustable stroke (Only for SIJ Series)

25	25mm	50	50mm	75	75mm
----	------	----	------	----	------

Cylinder stroke

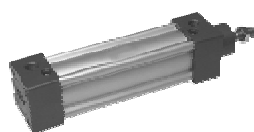
* Refer to "Standard stroke".

Bore size (mm)

32	40	50	63	80	100	125	160	200
----	----	----	----	----	-----	-----	-----	-----

Model

SI	Double acting, single rod	SID	Double rod type
SIJ	Adjustable stroke type		
Conforms to	■ ISO 6431 & VDMA 24562		

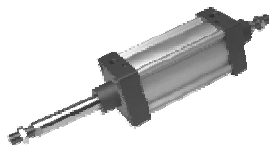
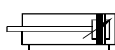
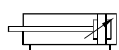


SI Series

Symbol

SI□-□

SI□-□-S

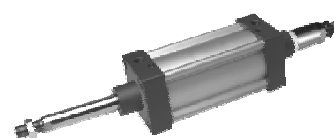
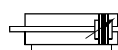
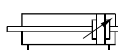


SID Series

Symbol

SID□-□

SID□-□-S

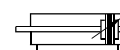
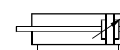


SIJ Series

Symbol

SIJ□-□-□

SIJ□-□-□-S



◆ Specifications

Bore size (mm)	32	40	50	63	80	100	125	160	200
Action	Double acting, single / double rod								
Fluid	Filtered compressed air								
Proof pressure	1.5 MPa								
Operating pressure range	0.1~0.9 MPa								
Ambient and fluid temperature	-5~70 °C (No freezing)								
Port size	G1/8	G1/4		G3/8		G1/2		G3/4	
Piston rod thread	M10×1.25	M12×1.25	M16×1.5		M20×1.5		M27×2.0	M36×2.0	
Cushion	Adjustable air cushion at both ends								

Note): Please contact with ANSSION for the mounting accessories.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA 1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO / VDMA Standard Cylinder

Double Acting, Single Rod / Double Rod

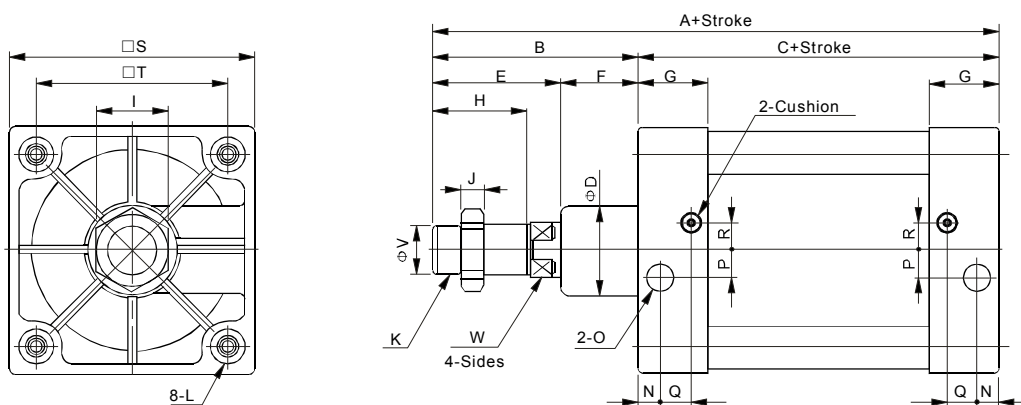
Series SI, SID, SIJ

◆ Standard Stroke

Bore size (mm)	Standard stroke(mm)																		Maximum stroke	Available stroke			
32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	1000	2000					
40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	1200	2000		
50	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1200	2000
63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
80	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
100	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
125	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
160	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000
200	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000

◆ Dimensions

SI □-□-S
(Basic style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size(mm)	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	142	48	94	30	28	20	27.5	22	17	6	M10×1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40	159	54	105	35	34	22	32	24	19	7	M12×1.25	M6	16	G1/4	6	8.5	9	53	38	16	13
50	175	69	106	40	42	27	31	32	24	8	M16×1.5	M8	18.5	G1/4	8.5	7.5	7.5	65	46.5	20	17
63	190	69	121	45	40	29	33	32	24	8	M16×1.5	M8	19	G3/8	7.5	8.5	9	75	56.5	20	17
80	214	86	128	45	53	33	33	40	30	10	M20×1.5	M10	19	G3/8	11	8.5	13.5	95	72	25	22
100	229	91	138	55	55	36	37	40	30	10	M20×1.5	M10	18	G1/2	13.5	9.5	14.5	115	89	25	22
125	279	119	160	60	74	45	46	54	41	13.5	M27×2.0	M12	23	G1/2	14	12	14	140	110	32	27
160	332	152	180	65	94	58	50	72	55	18	M36×2.0	M16	25	G3/4	15	12	20	180	140	40	36
200	347	167	180	75	100	67	50	72	55	18	M36×2.0	M16	25	G3/4	15	12	20	220	175	40	36

Standard Cylinder

Double Acting, Single Rod

Series CS1, CDS1

◆ How to Order

C D S1 L 160 — 300

Cylinder stroke

* Refer to "Maximum Stroke "

Bore size (mm)

125	140	160	180	200	250	300
-----	-----	-----	-----	-----	-----	-----

Mounting style

B	Basic style	C	Single clevis style
L	Foot style	D	Double devis style
F	Rod side flange style	T	Center trunnion style
G	Head side flange style		

Magnet

Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------

*Built-in magnet only avilabel for bore size 125mm to 200mm.

◆ Specifications

Bore size (mm)	125	140	160	180	200	250	300
Action	Double acting, single rod						
Fluid	Filtered compressed air						
Proof pressure	1.5 MPa						
Operating pressure range	0.05~0.97 MPa						
Ambient and fluid temperature	0~70°C (No freezing)						
Port size	G1/2		G3/4			G1	
Piston rod thread	M30×1.5	M36×1.5	M40×1.5	M45×1.5	M56×2.0	M60×2.0	
Cushion	Adjustable air cushion at both ends						

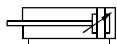
Note): Please contact with ANSSION for the mounting accessories.

◆ Maximum Stroke

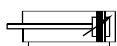
Bore size (mm)	Mounting bracket	Basic style, Head side flange style Single clevis style, Double clevis style Center trunnion style, Foot style Rod side flange style
125		1000 or less
140		1000 or less
160		1200 or less
180		1200 or less
200		1500 or less
250		1500 or less
300		1800 or less

Symbol

CS1B□-□



CDS1B□-□



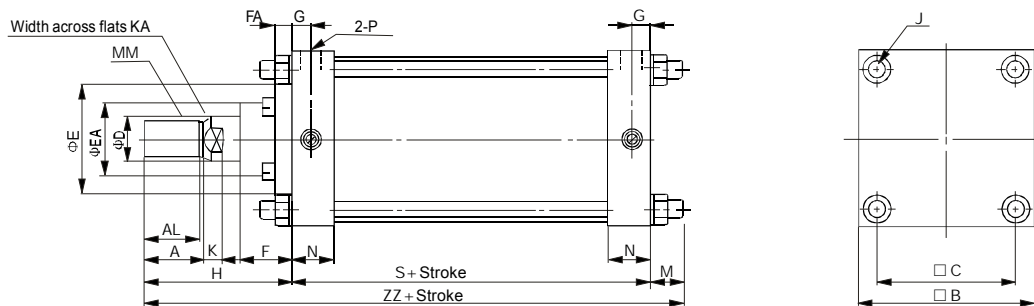
Standard Cylinder

Double Acting, Single Rod

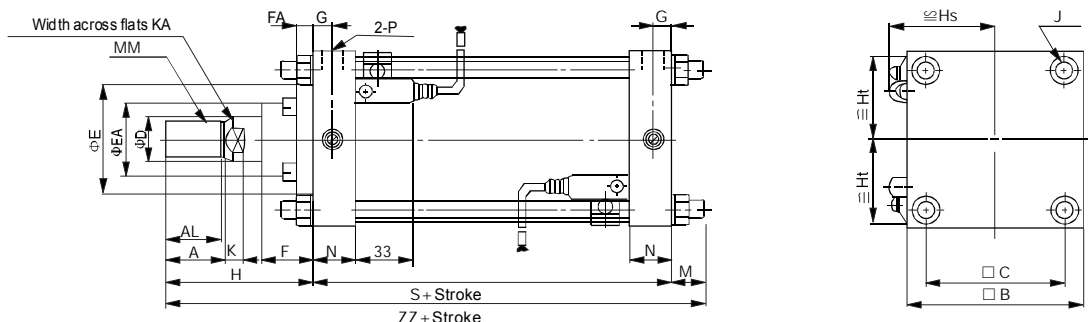
Series CS1, CDS1

◆ Dimensions

CS1B□-□
(Basic style)



CDS1B□-□
(Basic style, built-in magnet)



Bore size(mm)	Stroke range*(mm)	A	AL	□B	□C	D	E	EA	F	FA	G	J	K	KA	M	MM	N	P	S
125	Up to 1000	50	47	145	115	36	90	59	43	14	16	M14×1.5	15	31	27	M30×1.5	35	G1/2	98
140	Up to 1000	50	47	161	128	36	90	59	43	14	16	M14×1.5	15	31	27	M30×1.5	35	G1/2	98
160	Up to 1200	56	53	182	144	40	90	59	43	14	18.5	M16×1.5	17	36	30.5	M36×1.5	39	G3/4	106
180	Up to 1200	63	60	204	162	45	115	70	48	17	18.5	M18×1.5	20	41	35	M40×1.5	39	G3/4	111
200	Up to 1200	63	60	226	182	50	115	74	48	17	18.5	M20×1.5	20	46	35	M45×1.5	39	G3/4	111
250	Up to 1200	71	67	277	225	60	140	86	60	20	23	M24×1.5	25	56	41.5	M56×2.0	49	G1	141
300	Up to 1200	80	76	330	270	70	140	96	60	20	23	M30×1.5	30	65	51.5	M64×2.0	49	G1	146

Bore size(mm)	H	ZZ
125	110	235
140	110	235
160	120	256.5
180	135	281
200	135	281
250	160	342.5
300	175	372.5

Built-in magnet: Φ 125 to Φ 200

Bore size(mm)	Stroke range(mm)	S	ZZ
125	Up to 1000	98	235
140	Up to 1000	98	235
160	Up to 1200	106	256.5
180	Up to 1200	115	285
200	Up to 998	120	290

except mentioned above are the same as standard type.

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Standard Cylinder

Double Acting, Single Rod / Double Rod

Series MB, MBW

◆ How to Order

M **D** **B** **W** **B** 32 — 150

Cylinder stroke
* Refer to "Standard stroke" .

Port thread type

Symbol	Nil	TN	TF
Type	Rc	NPT	G

Bore size (mm)

32	40	50	63	80	100	125
-----------	-----------	-----------	-----------	-----------	------------	------------

Mounting style

B	Basic / Without bracket	L	Axial foot
F	Rod side flange	G	Head side flange
C	Single clevis	D	Double clevis
T	Center trunnion		

*"G, C, D"Only for MB, MDB Series.

Piston Rod

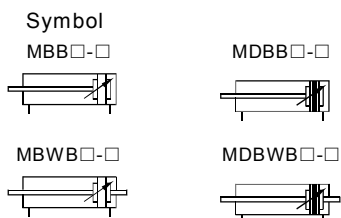
Nil	Single rod	W	Double rod
------------	------------	----------	------------

Magnet

Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------



MB Series



◆ Specifications

Bore size (mm)	32	40	50	63	80	100	125
Action	Double acting, single rod / double rod						
Fluid	Filtered compressed air						
Proof pressure	1.5 MPa						
Operating pressure range	0.05~1.0 MPa						
Ambient and fluid temperature	-10~70°C (No freezing)						
Port size (Rc, NPT, G)	1/8	1/4	3/8		1/2		
Piston rod thread	M10×1.25	M14×1.5	M18×1.5	M22×1.5	M26×1.5	M27×2.0	
Cushion	Adjustable air cushion at both ends						

Note): Please contact with ANSSION for the mounting accessories.

Standard Cylinder

Double Acting, Single Rod / Double Rod

Series MB, MBW

◆ Standard Stroke

Bore size(mm)	Standard stroke (mm)	Max.stroke
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	700
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	800
50	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	1200
63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	1200
80	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1400
100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1500
125	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1500

* Intermediate strokes are available. (No spacer is used.)

◆ Dimensions (Without Mounting Bracket)

M(D)BB□-□
(Basic style)

* The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	Stroke range (mm)	Effective thread length	Width across flats	A	B	C	D	Ee11	F	G	H	MA	MB	J	K	MM	N	P	S	V	W	ZZ
32	to 500	19.5	10	22	46	32.5	12	30	13	13	47	16	4	M6×1	6	M10×1.25	27	1/8	84	4	6.5	135
40	to 500	27	14	30	52	38	16	35	13	14	51	16	4	M6×1	6	M14×1.5	27	1/4	84	4	9	139
50	to 600	32	18	35	65	46.5	20	40	14	15.5	58	16	5	M8×1.25	7	M18×1.5	31.5	1/4	94	5	10.5	156
63	to 600	32	18	35	75	56.5	20	45	14	16.5	58	16	5	M8×1.25	7	M18×1.5	31.5	3/8	94	9	12	156
80	to 800	37	22	40	95	72	25	45	20	19	72	16	5	M10×1.5	10	M22×1.5	38	3/8	114	11.5	14	190
100	to 800	37	26	40	114	89	30	55	20	19	72	16	5	M10×1.5	10	M26×1.5	38	1/2	114	17	15	190
125	to 1000	50	27	54	136	110	32	60	27	19	97	20	6	M12×1.75	13	M27×2.0	38	1/2	120	17	16	223

M(D)BWB□-□
(Double rod style)

* The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	Stroke range	Eff. thread length	Width across flats	A	B	C	D	Ee11	F	G	H	MA	MB	J	K	MM	N	P	S	V	W	ZZ
32	to 500	19.5	10	22	46	32.5	12	30	13	13	47	16	4	M6×1.0	6	M10×1.25	27	1/8	84	4	6.5	178
40	to 500	27	14	30	52	38	16	35	13	14	51	16	4	M6×1.0	6	M14×1.5	27	1/4	84	4	9	186
50	to 600	32	18	35	65	46.5	20	40	14	15.5	58	16	5	M8×1.25	7	M18×1.5	31.5	1/4	94	5	10.5	210
63	to 600	32	18	35	75	56.5	20	45	14	16.5	58	16	5	M8×1.25	7	M18×1.5	31.5	3/8	94	9	12	210
80	to 800	37	22	40	95	72	25	45	20	19	72	16	5	M10×1.5	10	M22×1.5	38	3/8	114	11.5	14	258
100	to 800	37	26	40	114	89	30	55	20	19	72	16	5	M10×1.5	10	M26×1.5	38	1/2	114	17	15	258
125	to 1000	50	27	54	136	110	32	60	27	19	97	20	6	M12×1.75	13	M27×2.0	38	1/2	120	17	15	314

- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB**
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Standard Cylinder

Double Acting, Single Rod / Double Rod

Series SU, SUD, SUJ

◆ How to Order

SU 50 50 25 S LB

Mounting style

SU Series

Nil	LB	FA	FB	CA
CB	TC	TC-M		
Available only for $\Phi 40 \sim \Phi 100$				

SUD Series

Nil	LB	FA	TC	TC-M
Available only for $\Phi 40 \sim \Phi 100$				

SUJ Series

Nil	LB	FA	TC	TC-M
Available only for $\Phi 40 \sim \Phi 100$				

Magnet

Nil	Without magnet	S	Built-in magnet
-----	----------------	---	-----------------

Adjustable stroke (Only for SUJ Series)

25	50	75
----	----	----

Cylinder stroke

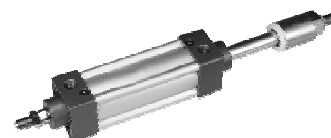
* Refer to "Standard stroke" .

Bore size (mm)

32	40	50	63	80	100
----	----	----	----	----	-----

Model

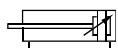
SU	Double acting, single rod	
SUD	Double rod type	SUJ Adjustable stroke type



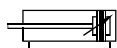
SU Series

Symbol

SU□-□



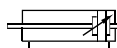
SU□-□-**S**



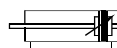
SUD Series

Symbol

SUD□-□



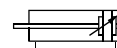
SUD□-□-**S**



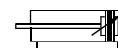
SUJ Series

Symbol

SUJ□-□



SUJ□-□-**S**



Standard Cylinder

Double Acting, Single Rod / Double Rod

Series SC, SCD, SCJ

◆ How to Order

SC **50** **50** **25** **S** **LB**

Mounting style

SC Series

Nil	LB	FA	FB	CA
CB	TC	TC-M		
Available only for $\Phi 40 \sim \Phi 100$				

SCD Series

Nil	LB	FA	TC	TC-M
Available only for $\Phi 40 \sim \Phi 100$				

SCJ Series

Nil	LB	FA	TC	TC-M
Available only for $\Phi 40 \sim \Phi 100$				

Magnet

Nil	Without magnet	S	Built-in magnet
-----	----------------	---	-----------------

Adjustable stroke (Only for SCJ Series)

25	25mm	50	50mm	75	75mm
----	------	----	------	----	------

Cylinder stroke

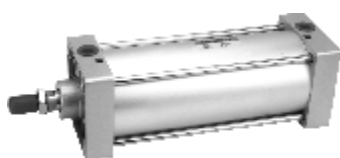
* Refer to "Standard stroke" .

Bore size (mm)

32	40	50	63	80	100
----	----	----	----	----	-----

Model

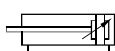
SC	Double acting, single rod	SCD	Double rod type
SCJ	Adjustable stroke type		



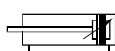
SC Series

Symbol

SC□-□



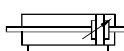
SC□-□-S



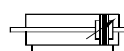
SCD Series

Symbol

SCD□-□



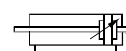
SCD□-□-S



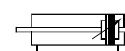
SCJ Series

Symbol

SCJ□-□-□



SCJ□-□-□-S



I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

Standard Cylinder

Double Acting, Single Rod / Double Rod

Series SC, SCD, SCJ

◆ Specifications

Bore size (mm)	32	40	50	63	80	100
Action	Double acting , single / double rod					
Fluid	Filtered compressed air					
Proof pressure	1.5 MPa					
Operating pressure range	0.1~0.9 MPa					
Ambient and fluid temperature	-5~70℃ (No freezing)					
Port size	G1/8	G1/4		G3/8		G1/2
Piston rod thread	M10×1.25	M12×1.25	M16×1.5		M20×1.5	
Cushion	Adjustable air cushion at both ends					

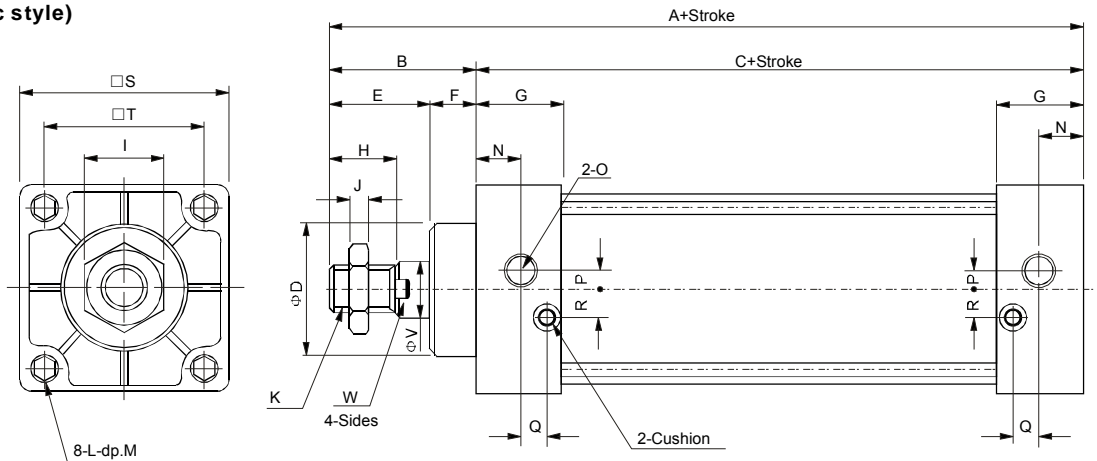
Note): Please contact with ANSSION for the mounting accessories.

◆ Standard Stroke

Series	Bore size (mm)	Standard stroke(mm)	Maximum stroke	Available stroke
SC	32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1000	2000
	40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1200	2000
	50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
	63~100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
SCD	32~63	25 50 75 80 100 125 150 160 175 200	200	300
SCJ	80~100	25 50 75 80 100 125 150 160 175 200 250 300	300	400

◆ Dimensions

SC□-□-**S**
(Basic style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

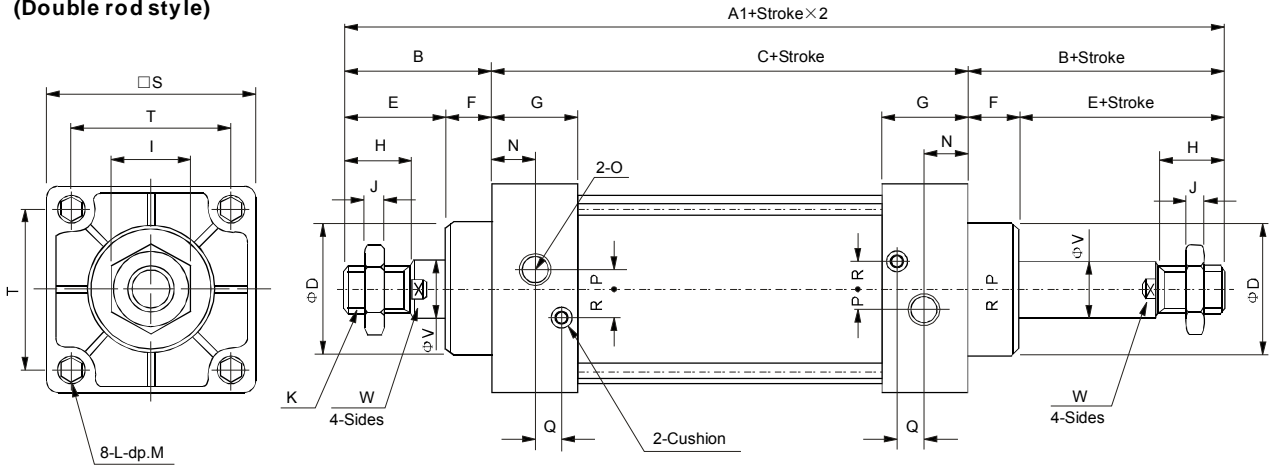
Bore size (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W
32	140	47	93	28	32	15	27.5	22	17	6	M10×1.25	M6×1.0	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	10
40	142	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1.0	9.5	13.5	G1/4	6	8.2	9	50	37	16	14
50	150	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1.0	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17
63	153	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17
80	182	75	107	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	22
100	188	75	113	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G1/2	11	9.5	14	112	84	25	22

Standard Cylinder

Double Acting, Single Rod / Double Rod

Series SC, SCD, SCJ

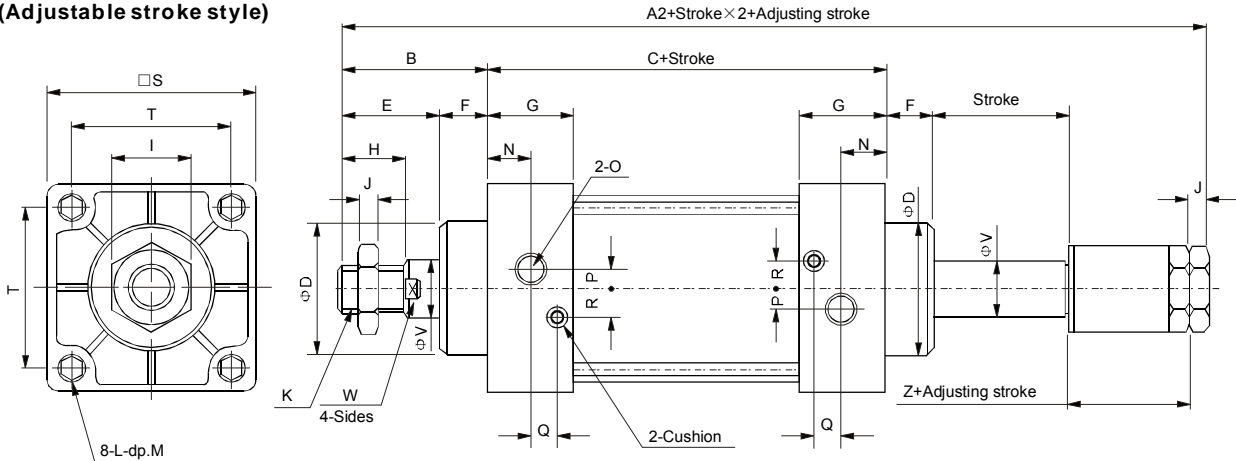
SCD□-□-S (Double rod style)



* The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W
32	187	47	93	28	32	15	27.5	22	17	6	M10×1.25	M6×1.0	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	10
40	191	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1.0	9.5	13.5	G1/4	6	8.2	9	50	37	16	14
50	207	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1.0	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17
63	210	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17
80	257	75	107	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	22
100	263	75	113	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G1/2	11	9.5	14	112	84	25	22

SCJ□-□-□-S (Adjustable stroke style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	Z
32	182	47	93	28	32	15	27.5	22	17	6	M10×1.25	M6×1.0	9.5	13.7	G1/8	3.5	7.5	7	45	33	12	10	21
40	185	49	93	32	34	15	27.5	24	17	7	M12×1.25	M6×1.0	9.5	13.5	G1/4	6	8.2	9	50	37	16	14	21
50	196	57	93	38	42	15	27.5	32	23	8	M16×1.5	M6×1.0	9.5	13.5	G1/4	8.5	8.2	9	62	47	20	17	23
63	199	57	96	38	42	15	27.5	32	23	8	M16×1.5	M8×1.25	9.5	13.5	G3/8	7	8.2	8.5	75	56	20	17	23
80	242	75	107	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G3/8	10	9.5	14	94	70	25	22	29
100	248	75	113	47	54	21	33	40	26	10	M20×1.5	M10×1.5	11.5	16.5	G1/2	11	9.5	14	112	84	25	22	29

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA 1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return

Series DSNU

◆ How to Order



Piston Rod

Nil	Single rod
S2	Double rod (only for double acting)

Head / End cover style

Nil	Basic type
MQ	Lateral air connection
MA	Axial air connection
MH	With mounting flange on bearing cap

Magnet

A	Built-in magnet
---	-----------------

Cushion

P	rubber bumper
PPV*	Adjustable air cushion at both ends

* PPV is only available for double acting (DSNU), except $\phi 80$ mm

Cylinder stroke(mm)

10...2000mm

Bore size (mm)

8	10	12	16	20	25
---	----	----	----	----	----

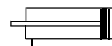
Model:

DSNU	Double-acting
ESNU	Single-acting, spring return
Conforms to	■ ISO 6432

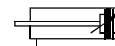


Symbol

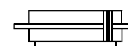
DSNU□-□-P-A



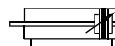
DSNU□-□-PPV-A



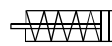
DSNU□-□-P-A-S2



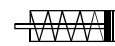
DSNU□-□-PPV-A-S2



ENSU□-□-P



ENSU□-□-P-A



ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return

Series DSNU

◆ Specifications

Bore size (mm)		8	10	12	16	20	25
Action	DNSU	Double Acting, single rod / double rod					
	ENSU	Single acting, spring return					
Fluid		Filtered compressed air					
Proof pressure		1.5MPa					
Operating pressure range	DNSU	0.08~1.0Mpa	0.05~1.0MPa				
	ENSU	0.15~1.0Mpa	0.12~1.0MPa				
Ambient and fluid temperature		-20~80°C (No freezing)					
Port size		M5				G1/8	
Piston rod thread		M4		M6		M8	M10×1.25
Cushion	DNSU	Rubber bumper					
	ENSU	Adjustable air cushion at both ends					
		Rubber bumper					

Note): Please contact with ANSSION for the mounting accessories.

◆ Materials

① Piston rod	High-alloy stainless steel
② Bearing cap	Wrought aluminium alloy
③ Cylinder barrel	High-alloy stainless steel
④ End cap	Wrought aluminium alloy
-Seals	Polyurethane, nitrile rubber

① Piston rod	High-alloy stainless steel
② Bearing cap	Wrought aluminium alloy
③ Cylinder barrel	High-alloy stainless steel
④ End cap	Wrought aluminium alloy
-Seals	Polyurethane, nitrile rubber
-Spring	Spring steel

◆ Dimensions

DSNU□-□-P-A
(Basic style)

+ = plus stroke length

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

ISO Mini Cylinder

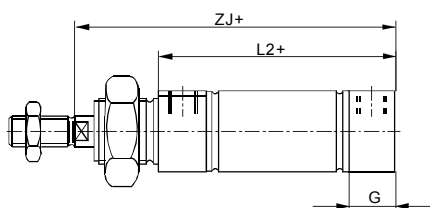
Double Acting, Single Rod / Double rod; Single Acting, Spring Return

Series DSNU

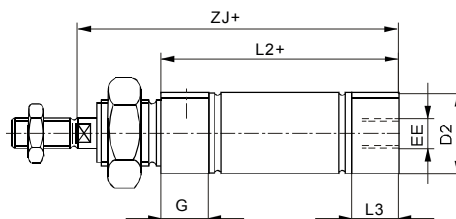
Bore size (mm)	AM	B _{h9}	BE	BF	CD _{E10}	D _φ	D4 _φ	EE	EW	G	KK	KV
8	12	12	M12×1.25	12	4	15	9.3	M5	8	10	M4	19
10	12	12	M12×1.25	12	4	15	11.3	M5	8	10	M4	19
12	16	16	M16×1.5	17	6	20	13.3	M5	12	10	M6	24
16	16	16	M16×1.5	17	6	20	17.3	M5	12	10	M6	24
20	20	22	M22×1.5	20	8	27	21.3	G1/8	16	16	M8	32
25	22	22	M22×1.5	22	8	27	26.5	G1/8	16	16	M10×1.25	32

Bore size (mm)	KW	L	L2	MM _φ	PL	TO	VD	WF	XC _{±1}	ZJ	≡C1
8	6	6	46	4	6	18	2	16	64	62	-
10	6	6	46	4	6	18	2	16	64	62	-
12	8	9	50	6	6	23	2	22	75	72	5
16	8	9	56	6	6	23	2	22	82	78	5
20	11	12	68	8	8.2	31	2	24	95	92	7
25	11	12	69.5	10	8.2	31	2	28	104	97.2	9

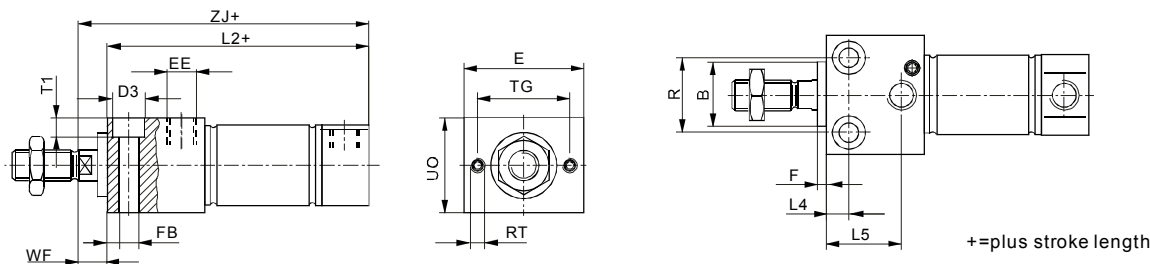
MQ:Lateral air connection



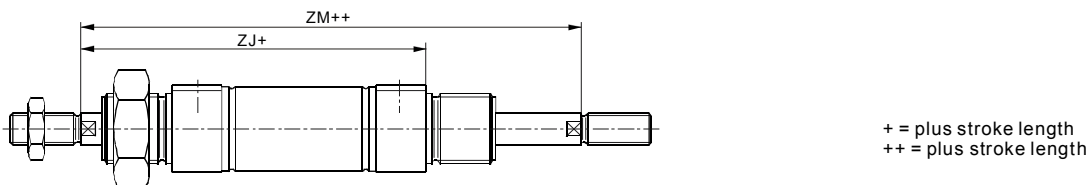
MA: Axial air connection



MH: with direct mounting block



S2: Double rod style



Bore size (mm)	B _{h9}	D2 _φ	D3 _φ	E	EE	F	FB _φ	G	L2	
									-MA	-MH
8	12	10.5	6	24	M5	3	3.4	10	46	53.5
10	12	12.5	6	24	M5	3	3.4	10	46	53.8
12	16	14.5	8	30	M5	3	4.5	10	50	62
16	16	17.5	8	30	M5	3	4.5	10	56	67.5
20	22	21.7	10	40	G1/8	3	5.5	16	68	81.5
25	22	26.7	11	40	G1/8	3	6.6	16	69.5	86.2

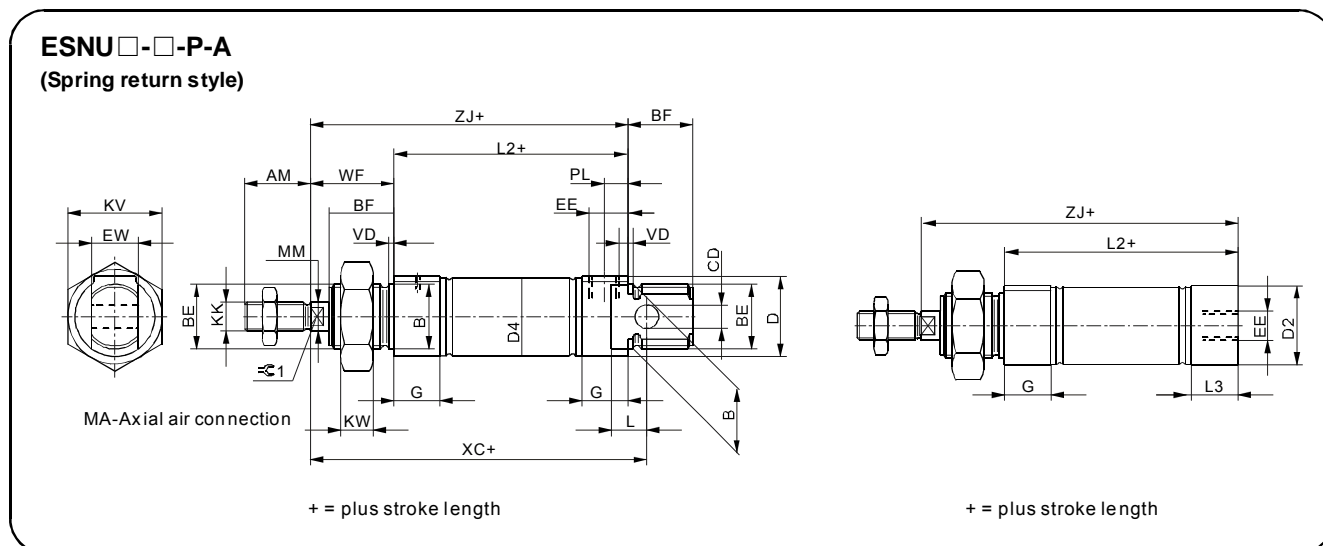
ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return

Series DSNU

Bore size (mm)	L3	L4	L5	R	RT	TG	T1	UO	WF	ZJ		
										-MQ	-MA	-MH
8	7.6	5	14	12	M3	18	3.4	16	8	62	59.6	61.5
10	7.1	5	14	12	M3	18	3.4	16	8	62	59.1	61.8
12	7.7	6	18.1	16	M4	23	4.5	22	10	72	69.7	72
16	7.7	6	18.1	16	M4	23	4.5	22	10	78	75.7	77.8
20	14.5	7.5	22.4	22	M5	31	5.5	28	10	92	90.5	91.5
25	14	7.5	25.2	25	M5	31	6.6	32	11	97.5	96.5	97.2

Bore size (mm)	A1 max.	A2 max.	A3 max.	AM	AF	KF	KK		T4	WF	ZJ			ZM
							Basic thread	Special thread ¹⁾			-MQ	-MA	-MH	
8	15	50	4	12	-	-	M4	-	-	16	62	59.6	61.5	78.4
10	15	50	4	12	-	-	M4	-	-	16	62	59.1	61.8	78.4
12	20	100	4	16	-	-	M6	-	-	22	72	69.7	72	94
16	20	100	4	16	-	-	M6	-	-	22	78	75.7	77.8	100
20	25	100	8	20	12	M4	M8	-	2	24	92	90.5	91.5	116
25	35	100	8	22	12	M6	M10×1.25	M10	2.6	28	97.5	96.5	97.2	125.5



Bore size (mm)	AM	B _Φ h9	BE	BF	CD _Φ E10	D _Φ	D2 _Φ	D4 _Φ	EE	EW	G	KK	KV
8	12	12	M12×125	12	4	15	10.5	9.3	M5	8	10	M4	19
10	12	12	M12×125	12	4	15	12.5	11.3	M5	8	10	M4	19
12	16	16	M16×1.5	17	6	20	14.5	13.3	M5	12	10	M6	24
16	16	16	M16×1.5	17	6	20	17.5	17.3	M5	12	10	M6	24
20	20	22	M22×1.5	20	8	27	21.7	21.3	G 1/8	16	16	M8	32
25	22	22	M22×1.5	22	8	27	26.7	26.5	G 1/8	16	16	M10×1.25	32

Bore size (mm)	KW	L	L2 _{-MA}	L3	MM _Φ	PL	VD	WF	XC _{±1}	ZJ	-MA	KV
8	6	6	46	43.6	7.6	4	6	2	16	64	62	-
10	6	6	46	43.1	7.1	4	6	2	16	64	62	-
12	8	9	50	47.7	7.7	6	6	2	22	75	72	5
16	8	9	56	53.7	7.7	6	6	2	22	82	78	5
20	11	12	68	66.5	14.5	8	8.2	2	24	95	92	7
25	11	12	69.5	68.5	14	10	8.2	2	28	104	97.5	9

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA 1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

◆ How to Order

C D 85 W N 20 40 S C B

Auto switch mounting style

A	Rail mounting	B	Band mounting
----------	---------------	----------	---------------

Cushion

Nil	Rubber bumper(standard)
C	Adjustable air cushion at both ends (only "N" execution,bores 10 to 25mm)

Action

Nil	Double acting, single / double rod	
S	Single acting, spring return	T Single acting, spring extend

Cylinder stroke (mm)

Refer to "Standard Stroke".

Bore size (mm)

8*	10	12	16	20	25
-----------	-----------	-----------	-----------	-----------	-----------

* Bore size 8mm not available with air cushion.

Head cover style

N	Basic integrated devis
E*	Double end
F	Boss cut
Y**	Boss cut-End port

*Double acting, Double rod: Only double end style (E).

**Except air cushion type.Except single acting spring extended type.

Piston Rod

Nil	Single rod	W	Double rod
------------	------------	----------	------------

Magnet

Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------

◆ Specifications

Bore size(mm)		8	10	12	16	20	25
Action	C(D)85(W)N□-□	Double acting, single rod / double rod					
	C(D)85N□-□-S/T	Single acting, spring return / extend					
Fluid		Filtered compressed air					
Proof pressure		1.5MPa					
Operating pressure range	C(D)85(W)N□-□	0.1~1.0MPa	0.08~1.0MPa		0.05~1.0MPa		
	C(D)85N□-□-S/T	0.22~1.0MPa	0.18~1.0MPa		0.13~1.0MPa		
Ambient and fluid temperature		-20 to 80 °C (No freezing)					
Piston rod thread		M4×0.7		M6×1.0		M8×1.25	M10×1.25
Port size		M5×0.8				G1/8	
Cushion	C(D)85(W)N□-□	Rubber bumper					
	C(D)85N□-□-S/T	-	Adjustable air cushion at both ends				
	C(D)85N□-□-S/T	Rubber bumper					

Note): Please contact with ANSSION for the mounting accessories.

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

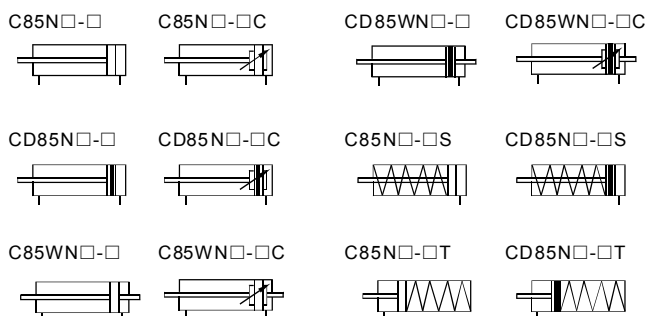
Cylinder stroke

Bore size (mm)	standard stroke (mm)*	Max.stroke (mm)
8	10,25,40,50,80,100	400
10		
12		
16		
20	10,25,40,50,80,100,	1000
25		

* Other strokes available on request.



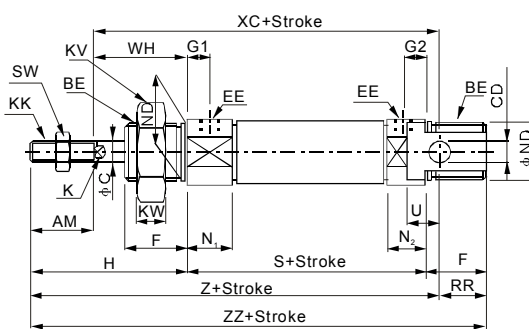
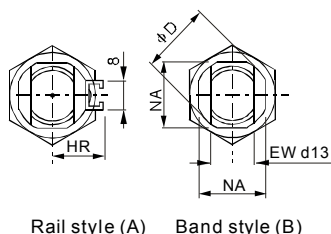
Symbol



◆ Dimensions

C(D)85N□-□

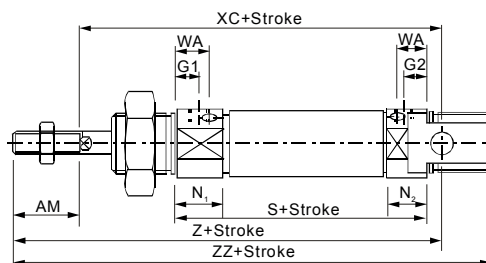
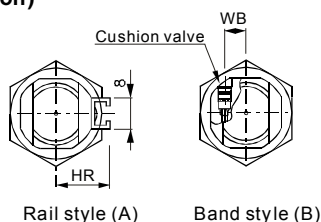
(Basic style, rubber bumper)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

C(D)85N□-□C

(Basic style, air cushion)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	AM	BE	φC	CD	φD	EE	EW	F	G1	G2	WA	WB	H	HR	K	KA	KK	KV	KW	N1	N2	NA	φND(h8)	RR	S	SW	U	WH	XC	Z	ZZ
8	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	7	5	-	-	28	10	-	4.2	M4×0.7	19	6	11.5	9.5	15	12	10	46	7	6	16	64	76	86
10	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	7 ^(5.5)	5 ^(6.5)	10.5	4.5	28	10.5	-	4.2	M4×0.7	19	6	11.5 ^(13.5)	9.5 ^(13.5)	15	12	10	46 ⁽⁵³⁾	7	6	16	64 ⁽⁷¹⁾	76 ⁽⁸³⁾	86 ⁽⁹³⁾
12	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	8 ^(5.5)	6 ^(6.5)	9.5	5.5	38	14	5	6.2	M6×1.0	24	8	12.5 ^(12.5)	10.5 ^(12.5)	18	16	14	50 ⁽⁶⁴⁾	10	9	22	75 ⁽⁷⁹⁾	91 ⁽⁹⁵⁾	105 ⁽¹⁰⁹⁾
16	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	8 ^(5.5)	6 ^(6.5)	9.5	5.5	38	14	5	6.2	M6×1.0	24	8	12.5 ^(12.5)	10.5 ^(12.5)	18	16	13	50 ⁽⁶⁶⁾	10	9	22	82 ⁽⁸²⁾	98 ⁽⁹⁸⁾	111 ⁽¹¹¹⁾
20	20	M22×1.5	8	8 ^{+0.036} _{0.006}	28	G1/8	16	20	8	8	13	8.5	44	17	6	8.2	M8×1.25	32	10	15 ⁽¹⁷⁾	15 ⁽¹⁷⁾	24	22	11	62	13	12	24	95	115	126
25	22	M22×1.5	10	8 ^{+0.036} _{0.006}	33.5	G1/8	16	22	8	8	13	10.5	50	20	8	10.2	M10×1.25	32	10	15 ⁽¹⁷⁾	15 ⁽¹⁷⁾	30	22	11	65	17	12	28	104	126	137

(): In case of air cushion.

- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85**
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

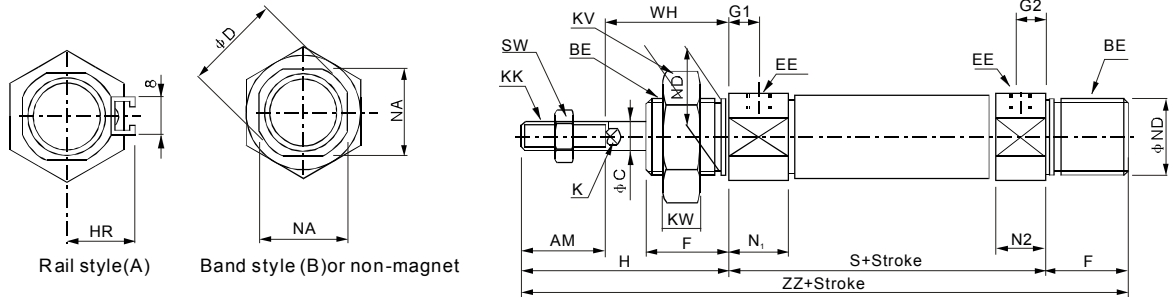
ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

C(D)85E□-□

(Double end style,rubber bumper)

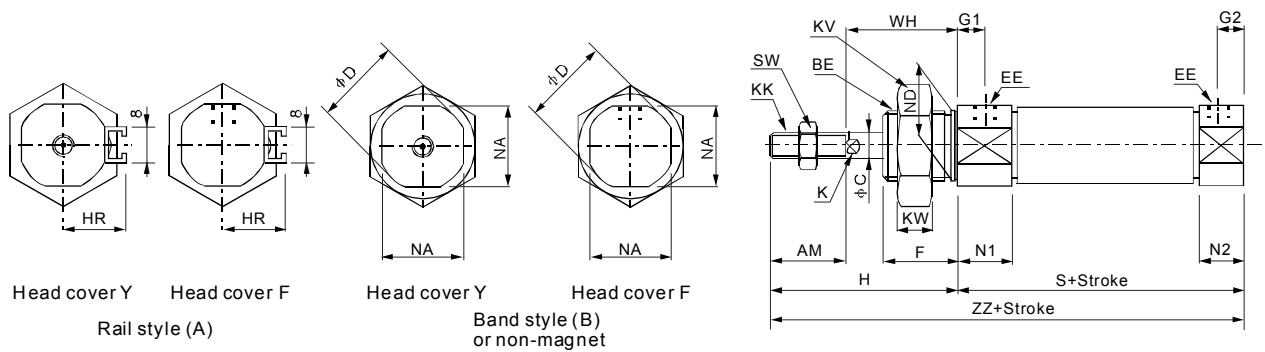


Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Bore size (mm)	AM	BE	φC	φD	EE	F	G1	G2	H	HR	K	KA	KK	KV	KW	N1	N2	NA	φND(h8)	S	SW	WH	ZZ
8	12	M12×1.25	4	16.7	M5×0.8	12	7	-	28	10	-	4.2	M4×0.7	19	6	11.5	9.5	15	12	46	7	16	86
10	12	M12×1.25	4	16.7	M5×0.8	12	7	10.5	28	10.5	-	4.2	M4×0.7	19	6	11.5	9.5	15	12	46	7	16	86
12	16	M16×1.5	6	19.7	M5×0.8	17	8	9.5	38	14	5	6.2	M6×1.0	24	8	12.5	10.5	18	16	50	10	22	105
16	16	M16×1.5	6	19.7	M5×0.8	17	8	9.5	38	14	5	6.2	M6×1.0	24	8	12.5	10.5	18	16	56	10	22	111
20	20	M22×1.5	8	28	G1/8	20	8	13	44	17	6	8.2	M8×1.25	32	10	15	15	24	22	62	13	24	126
25	22	M22×1.5	10	33.5	G1/8	22	8	13	50	20	8	10.2	M10×1.25	32	10	15	15	30	22	65	17	28	137

C(D)85_Y□-□

(Boss cut "F" / boss cut-end port "Y" style,rubber bumper)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

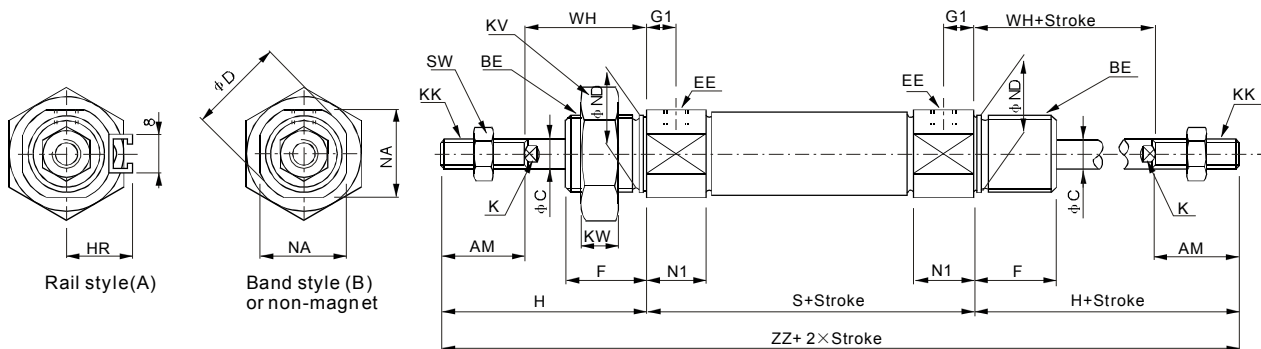
Bore size (mm)	AM	BE	φC	φD	EE	F	G1	G2	H	HR	HR	K	KK	KV	KW	N1	N2	NA	φND(h8)	S	SW	WH	ZZ
8	12	M12×1.25	4	16.7	M5×0.8	12	7	5	28	10	10	-	M4×0.7	19	6	11.5	9.5	15	12	46	7	16	74
10	12	M12×1.25	4	16.7	M5×0.8	12	7	5	28	10.5	10.5	-	M4×0.7	19	6	11.5	9.5	15	12	46	7	16	74
12	16	M16×1.5	6	19.7	M5×0.8	17	8	6	38	14	14	5	M6×1.0	24	8	12.5	10.5	18	16	50	10	22	88
16	16	M16×1.5	6	19.7	M5×0.8	17	8	6	38	14	14	5	M6×1.0	24	8	12.5	10.5	18	16	50	10	22	88
20	20	M22×1.5	8	27.9	G1/8	20	8	8	44	17	17	6	M8×1.25	32	11	15	15	24	22	62	13	24	106
25	22	M22×1.5	10	33.4	G1/8	22	8	8	50	20	20	8	M10×1.25	32	11	15	15	30	22	65	17	28	115

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

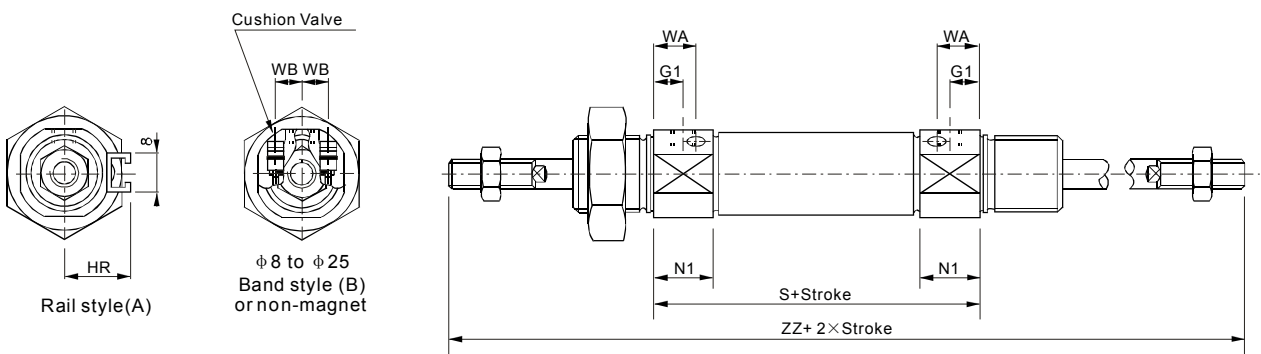
Series C85

C(D)85WE□-□ (Double rod style)



Note: The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder, except the { }.

C(D)85WE□-□C (Double rod style, air cushion)

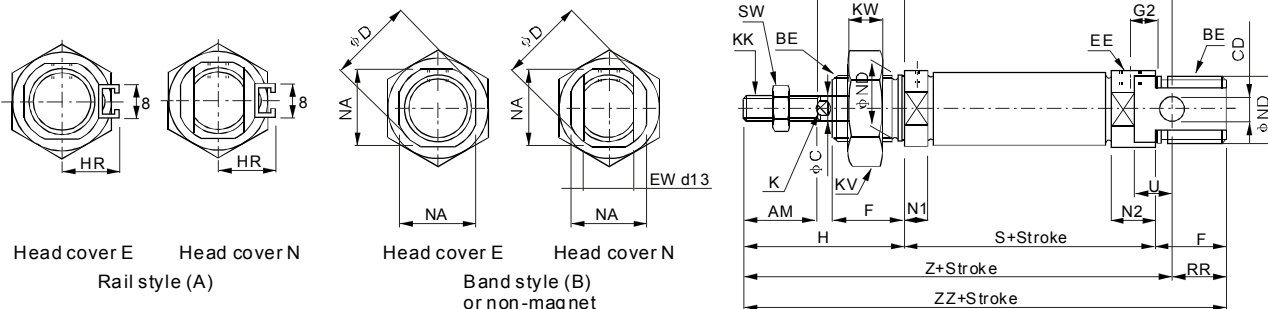


Note: The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder, except the { }.

Bore	AM	BE	φC	φD	EE	F	G1	WA	WB	H	HR	K	KK	KV	KW	N1	NA	φND(h8)	S	SW	WH	ZZ
8	12	M12×1.25	4	16.7	M5×0.8	12	7	-	-	28	10	-	M4×0.7	19	6	11.5	15	12	48{54}	7	16	104{110}
10	12	M12×1.25	4	16.7	M5×0.8	12	7(5.5)	10.5	4.5	28	10.5	-	M4×0.7	19	6	11.5(13.5)	15	12	48{53}	7	16	104{109}
12	16	M16×1.5	6	19.7	M5×0.8	17	8(5.5)	9.5	5.5	38	14	5	M6×1.0	24	8	12.5(12.5)	18	16	52{54}	10	22	128{130}
16	16	M16×1.5	6	19.7	M5×0.8	17	8(5.5)	9.5	5.5	38	14	5	M6×1.0	24	8	12.5(12.5)	18	16	52{54}	10	22	128{143}
20	20	M22×1.5	8	28	G1/8	20	8	13	8.5	44	17	6	M8×1.25	32	11	15(17)	24	22	62	13	24	150
25	20	M22×1.5	10	33.5	G1/8	22	8	13	10.5	50	20	8	M10×1.25	32	11	15(17)	30	22	65	17	28	165

(): In case of air cushion. { }: In case of built in magnet

C(D)85^N_E□-□S (Spring return style)



Note: The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder, except the ().

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

ISO Mini Cylinder

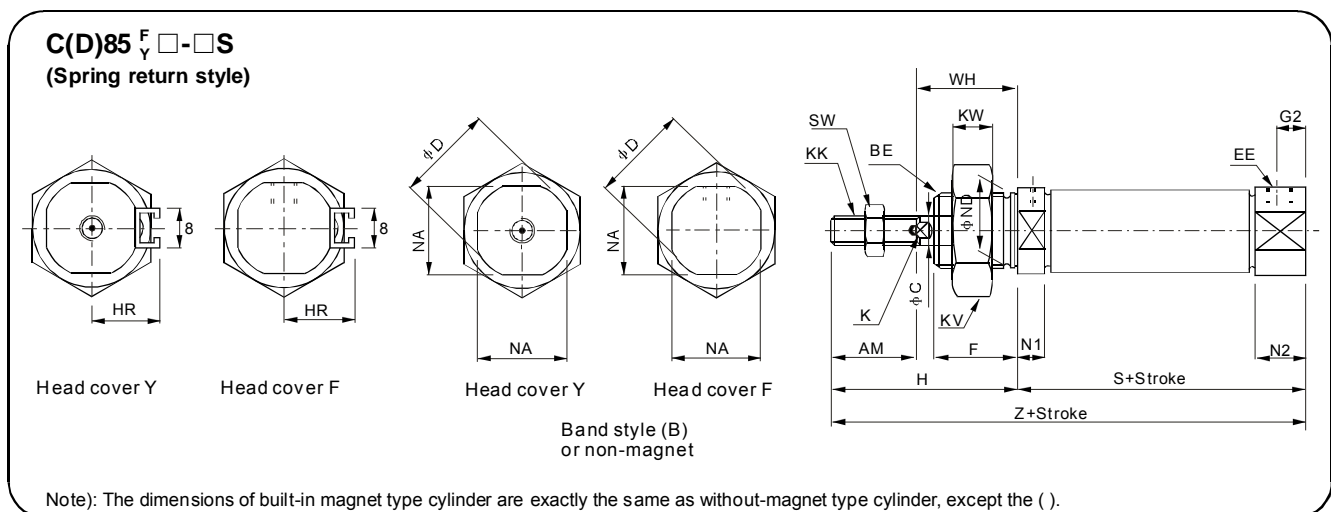
Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

Bore	AM	BE	φC	CD	φD	EE	EW	F	G2	H	HR	K	KK	KV	KW	N1	N2	NA	φND(h8)	RR	SW	U	WH
φ 8	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	5	28	10	-	M4×0.7	19	6	5.5	9.5	15	12	10	7	6	16
φ 10	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	5	28	10.5	-	M4×0.7	19	6	5.5	9.5	15	12	10	7	6	16
φ 12	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	6	38	14	5	M6×1.0	24	8	5.5	10.5	18	16	14	10	9	22
φ 16	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	6	38	14	5	M6×1.0	24	8	5.5	10.5	18	16	13	10	9	22
φ 20	20	M22×1.5	8	8 ^{+0.036} ₀	27.9	G1/8	16	20	8	44	17	6	M8×1.25	32	11	15	15	24	22	11	13	12	24
φ 25	20	M22×1.5	10	8 ^{+0.036} ₀	33.4	G1/8	16	22	8	50	20	8	M10×1.25	32	11	15	15	30	22	11	17	12	28

Bore	S			XC			Z			ZZ		
	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	1 to 50
φ 8	46(52)	-	-	64(70)	-	-	76(82)	-	-	86(92)	-	-
φ 10	46(50)	-	-	64(68)	-	-	76(80)	-	-	86(90)	-	-
φ 12	50(53.5)	-	-	7.5(78.5)	-	-	91(94.5)	-	-	105(108.5)	-	-
φ 16	56(59.5)	71.5(75)	87(90.5)	82(85.5)	97.5(101)	113(116.5)	98(101.5)	113.5(117)	129(132.5)	111(114.5)	126.5(130)	142(145.5)
φ 20	62	112	137	95	145	170	115	165	190	126	176	201
φ 25	65	113.5	138.5	104	152.5	177.5	126	174.5	199.5	137	185.5	210.5

(): In case of built-in magnet



Bore	AM	BE	φC	φD	EE	F	G2	H	HR	K	KK	KV	KW	N1	N2	NA	φND(h8)	SW	WH
φ 8	12	M12×1.25	4	16.7	M5×0.8	12	5	28	10	-	M4×0.7	19	6	5.5	9.5	15	15	7	16
φ 10	12	M12×1.25	4	16.7	M5×0.8	12	5	28	10.5	-	M4×0.7	19	6	5.5	9.5	15	15	7	16
φ 12	16	M16×1.5	6	19.7	M5×0.8	17	6	38	14	5	M6×1.0	24	8	5.5	10.5	18	18	10	22
φ 16	16	M16×1.5	6	19.7	M5×0.8	17	6	38	14	5	M6×1.0	24	8	5.5	10.5	18	18	10	22
φ 20	20	M22×1.5	8	27.9	G1/8	20	8	44	17	6	M8×1.25	32	10	15	15	24	24	13	24
φ 25	20	M22×1.5	10	33.4	G1/8	22	8	50	20	8	M10×1.25	32	10	15	15	30	30	17	28

Bore	S			XC			Z			ZZ		
	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	1 to 50
φ 8	46(52)	-	-	74(80)	-	-	74(80)	-	-	-	-	-
φ 10	46(50)	-	-	74(78)	-	-	74(78)	-	-	-	-	-
φ 12	50(53.5)	-	-	88(91.5)	-	-	88(91.5)	-	-	-	-	-
φ 16	50(53.5)	65.5(69)	81(84.5)	88(91.5)	103.5(107)	119(122.5)	88(91.5)	103.5(107)	119(122.5)	119(122.5)	135(138.5)	151(154.5)
φ 20	62	112	137	106	156	181	106	156	181	126	176	201
φ 25	65	113.5	138.5	115	163.5	188.5	115	163.5	188.5	137	185.5	210.5

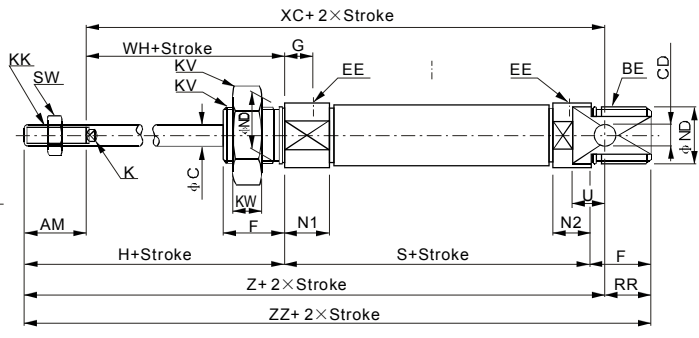
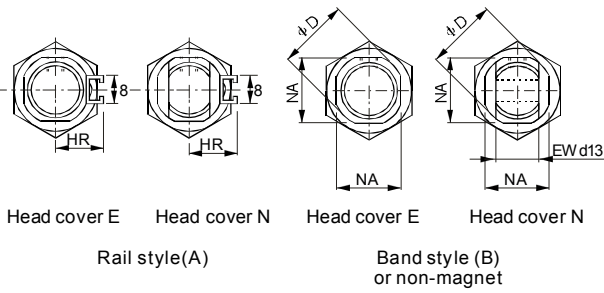
(): In case of built-in magnet

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

C(D)85^N □-□T
(Spring extend style)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder, except the ().

Unit:(mm)

Bore	AM	BE	φC	CD	φD	EE	EW	F	G	H	HR	K	KK	KV	KW	N ₁	N ₂	NA	φND(h8)	RR	SW	U	WH
φ 8	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	7	28	10	—	M4×0.7	19	6	11.5	9.5	15	12	10	7	6	16
φ 10	12	M12×1.25	4	4 ^{+0.030} ₀	16.7	M5×0.8	8	12	7	28	10.5	—	M4×0.7	19	6	11.5	9.5	15	12	10	7	6	16
φ 12	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	8	38	14	5	M6×1.0	24	8	12.5	10.5	18.3	16	14	10	9	22
φ 16	16	M16×1.5	6	6 ^{+0.030} ₀	19.7	M5×0.8	12	17	8	38	14	5	M6×1.0	24	8	12.5	10.5	18.3	16	13	10	9	22
φ 20	20	M22×1.5	8	8 ^{+0.036} _{-0.006}	27.9	G1/8	16	20	8	44	17	6	M8×1.25	32	11	15	15	24	22	11	13	12	24
φ 25	22	M22×1.5	10	8 ^{+0.036} _{-0.006}	33.4	G1/8	16	22	8	50	20	8	M10×1.25	32	11	15	15	30	22	11	17	12	28

Bore	S			Z			XC			ZZ		
	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150
φ 8	64.5(70.5)	—	—	94.5(100.5)	—	—	82.5(88.5)	—	—	104.5(110.5)	—	—
φ 10	64.5(68.5)	—	—	94.5(98.5)	—	—	82.5(86.5)	—	—	104.5(108.5)	—	—
φ 12	70(73.5)	—	—	111(114.5)	—	—	95(98.5)	—	—	125(128.5)	—	—
φ 16	75(78.5)	101(104.5)	127(130.5)	117(120.5)	143(146.5)	169(172.5)	101(104.5)	127(130.5)	153(156.5)	130(133.5)	156(159.5)	182(185.5)
φ 20	87	112	137	140	165	190	120	145	170	151	176	201
φ 25	88.5	113.5	138.5	149.5	174.5	199.5	127.5	152.5	177.5	160.5	185.5	210.5

(): In case of built-in magnet

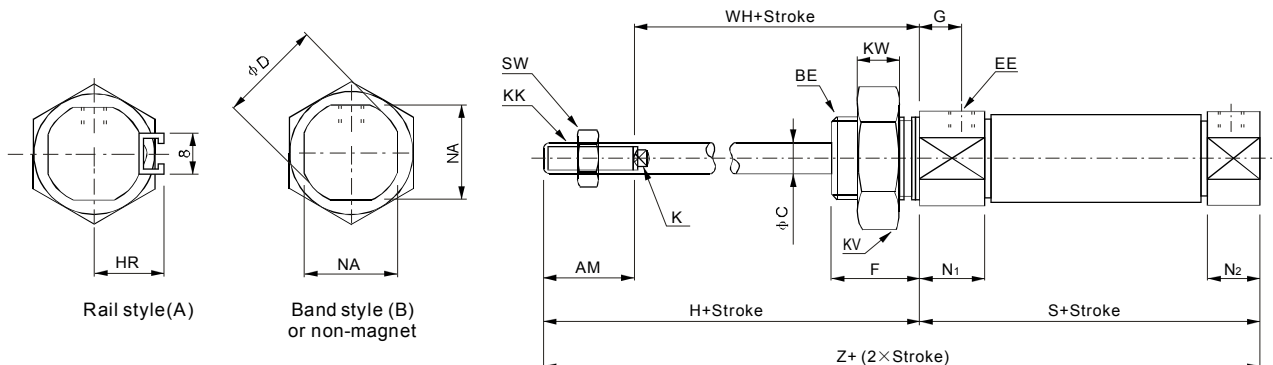
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85**
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

ISO Mini Cylinder

Double Acting, Single Rod / Double rod; Single Acting, Spring Return / Extend

Series C85

C(D)85F□-□T
(Spring extend style)



Note: The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder, except the ().

Unit:(mm)

Bore size	AM	BE	φC	φD	EE	F	G	H	HR	K	KK	KV	KW	N ₁	N ₂	NA	SW	WH
φ8	12	M12×1.25	4	16.7	M5×0.8	12	7	28	10	—	M4×0.7	19	6	11.5	9.5	15	7	16
φ10	12	M12×1.25	4	16.7	M5×0.8	12	7	28	10.5	—	M4×0.7	19	6	11.5	9.5	15	7	16
φ12	16	M16×1.5	6	19.7	M5×0.8	17	8	38	14	5	M6×1.0	24	8	12.5	10.5	18.3	10	22
φ16	16	M16×1.5	6	19.7	M5×0.8	17	8	38	14	5	M6×1.0	24	8	12.5	10.5	18.3	10	22
φ20	20	M22×1.5	8	27.9	G1/8	20	8	44	17	6	M8×1.25	32	11	15	15	24	13	24
φ25	22	M22×1.5	10	33.4	G1/8	22	8	50	20	8	M10×1.25	32	11	15	15	30	17	28

Bore	S			Z		
	1 to 50	51 to 100	101 to 150	1 to 50	51 to 100	101 to 150
φ8	64.5(70.5)	—	—	92.5(98.5)	—	—
φ10	64.5(68.5)	—	—	92.5(96.5)	—	—
φ12	70(73.5)	—	—	108(111.5)	—	—
φ16	69(72.5)	95(98.5)	121(124.5)	107(110.5)	133(136.5)	159(162.5)
φ20	87	112	137	131	156	181
φ25	88.5	113.5	138.5	138.5	163.5	188.5

(): In case of built-in magnet

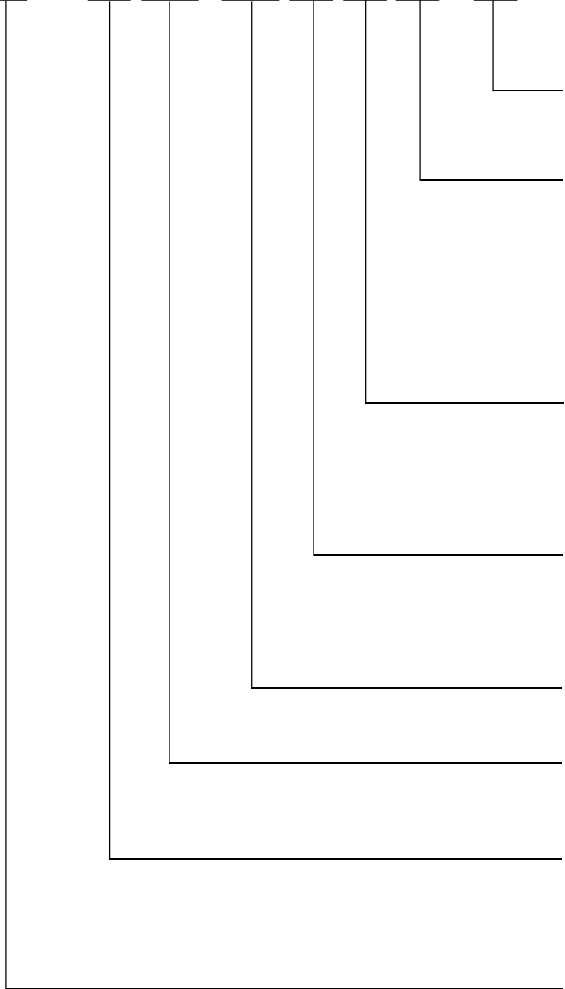
Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CJ2

◆ How to Order

C D J2 B 16 60 S A R - A



Auto switch mounting style

A	Rail mounting	B	Band mounting
----------	---------------	----------	---------------

Port location on head cover

Symbol	Bore size(mm)	6	10,16
Nil		-	Perpendicular to axis
R		Axial foot style	Axial foot style

*Double clevis style is only available for being perpendicular to axis.

*Single acting, Spring return(S), Clevis style is available only for 90° to the axis.

*Not applicable to single acting, spring extend(T).

Cushion

Nil	Rubber bumper
A	Adjustable air cushion at both ends (only available for double acting ϕ 10,16).

Action

Nil	Double acting, single rod	S	Single acting, spring return
T	Single acting, spring extend		

Cylinder stroke

*Refer to "Standard stroke" .

Bore size (mm)

6	10	16
----------	-----------	-----------

Mounting style

B	Basic style	L	Axial foot style
F	Rod side flange style	D	Double clevis style(except ϕ 6)

Magnet

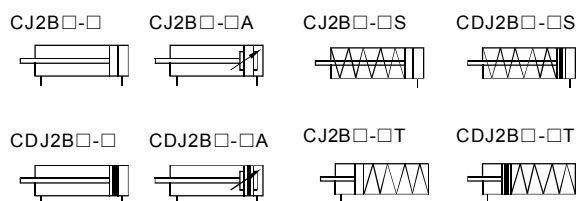
Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------

◆ Standard Stroke

Bore size(mm)	Standard stroke(mm)	
	Double acting, single rod	Single acting, spring return / extend
ϕ 6	15,30,45,60	15,30,45,60
ϕ 10	15,30,45,60,75,100,125,150	15,30,45,60
ϕ 16	15,30,45,60,75,100,125,150,175,200	15,30,45,60,75,100,125,150

*Intermediate strokes are available by the 1 mm interval with no stroke adjustment by spacer.

Symbol



I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2**
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CJ2

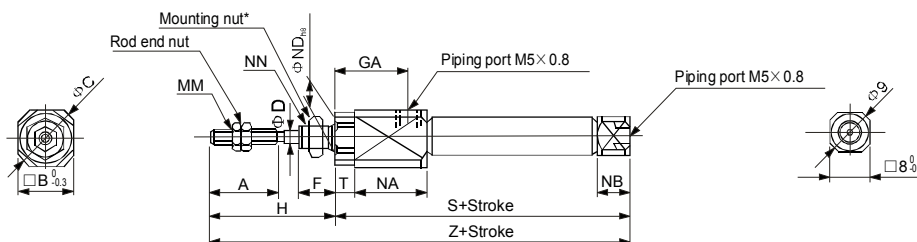
◆ Specifications

Bore size (mm)		6	10	16
Action	C(D)J2B□-□	Double acting, single rod / double rod		
	C(D)J2B□-□-S/T	Single acting, spring return / extend		
Fluid		Filtered compressed air		
Proof pressure		1.05 MPa		
Operating pressure range	C(D)J2B□-□	0.12~0.7 MPa	0.06 ~0.7MPa	
	C(D)J2B□-□-S	0.2~0.7 MPa	0.15 ~0.7MPa	
	C(D)J2B□-□-T	0.25~0.7 MPa	0.15~0.7 MPa	
Ambient and fluid temperature		-10~70°C(No freezing)		
Port size		M5×0.8		
Piston rod thread		M3×0.5	M4×0.7	M5×0.8
Cushion	C(D)J2B□-□	Rubber bumper		
	C(D)J2B□-□-S/T	-	Adjustable air cushion at both ends	
		Rubber bumper		

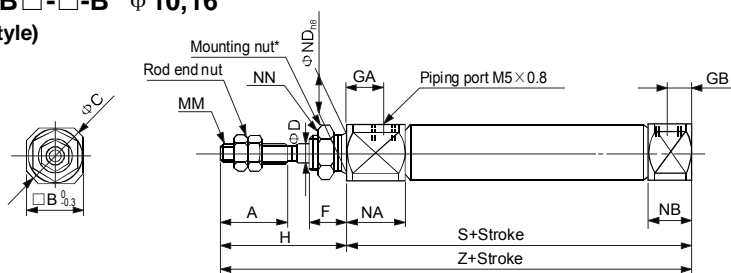
Note): Please contact with ANSSION for the mounting accessories.

◆ Dimensions

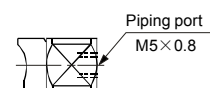
C(D)J2B□-□-B φ 6 (Basic style)



C(D)J2B□-□-B φ 10,16 (Basic style)

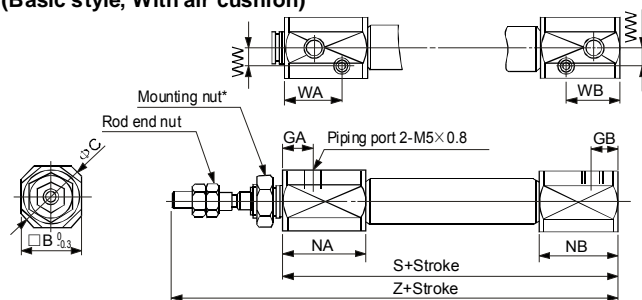


Axial location (R)

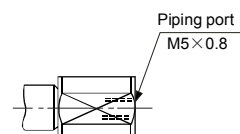


Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

C(D)J2B□-□-A-B φ 10,16 (Basic style, With air cushion)



Axial location (R)



Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

Part no.	Applicable bore(mm)	B	C	d	H
NTJ-006A	6	5.5	6.4	M3×0.5	2.4
NTJ-010A	10	7	8.1	M4×0.7	3.2
NTJ-015A	16	8	9.2	M5×0.8	4

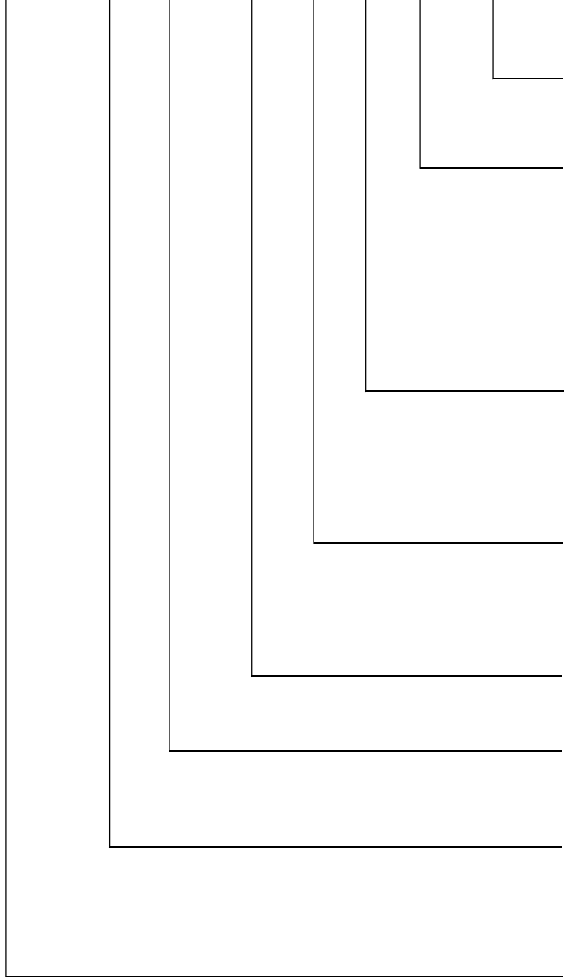
Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CJ2

◆ How to Order

C D J2 B 16 60 S A R - A



Auto switch mounting style

A	Rail mounting	B	Band mounting
----------	---------------	----------	---------------

Port location on head cover

Symbol	Bore size(mm)	6	10,16
Nil		-	Perpendicular to axis
R		Axial foot style	Axial foot style

*Double clevis style is only available for being perpendicular to axis.
 *Single acting, Spring return(S), Clevis style is available only for 90° to the axis.
 *Not applicable to single acting, spring extend(T).

Cushion

Nil	Rubber bumper
A	Adjustable air cushion at both ends (only available for double acting φ 10,16).

Action

Nil	Double acting, single rod	S	Single acting, spring return
T	Single acting, spring extend		

Cylinder stroke

*Refer to "Standard stroke" .

Bore size (mm)

6	10	16
----------	-----------	-----------

Mounting style

B	Basic style	L	Axial foot style
F	Rod side flange style	D	Double clevis style(except φ6)

Magnet

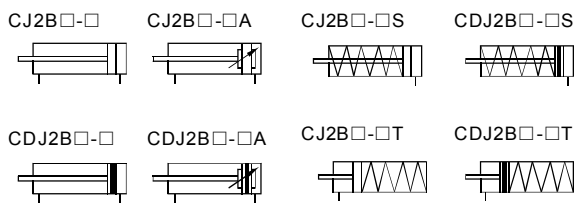
Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------

◆ Standard Stroke

Bore size(mm)	Standard stroke(mm)	
	Double acting, single rod	Single acting, spring return / extend
Φ6	15,30,45,60	15,30,45,60
Φ10	15,30,45,60,75,100,125,150	15,30,45,60
Φ16	15,30,45,60,75,100,125,150,175,200	15,30,45,60,75,100,125,150

*Intermediate strokes are available by the 1 mm interval with no stroke adjustment by spacer.

Symbol



I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS
Auto switch

D
Auto switch

AC,AD

HR

RB

RBQ

Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CM2

◆ How to Order

C D M2 B 40 - 150 A

Action

Nil	Double acting, single rod	S	Single acting, spring return
T	Single acting, spring extend		

Cushion

Nil	Rubber bumper
A	Adjustable air cushion at both ends (only available for double acting)

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

20	25	32	40
----	----	----	----

Mounting style

B	Basic style	T	Head side trunnion style
L	Axial foot style	E	Clevis integrated style
F	Rod side flange style	BZ	Boss-cut basic style
G	Head side flange style	FZ	Boss-cut rod side flange style
C	Single clevis style	UZ	Boss-cut rod side trunnion style
D	Double clevis style		
U	Rod side trunnion style		

Magnet

Nil	Without magnet	D	Built-in magnet
-----	----------------	---	-----------------



Symbol

CM2B□-□	CM2B□-□A
CDM2B□-□	CDM2B□-□A
CM2B□-□S	CDM2B□-□S
CN2B□-□T	CDM2B□-□T

◆ Standard Stroke

Bore size(mm)	Double acting, single rod		Single acting, spring return / extend
	Standard stroke (mm)	Maximum stroke(mm)	Standard stroke (mm)
20	25, 50, 75, 100, 125, 150, 200, 250, 300	1000	25, 50, 75, 100, 125, 150
25		1500	25, 50, 75, 100, 125, 150
32		2000	25, 50, 75, 100, 125, 150, 200
40		2000	25, 50, 75, 100, 125, 150, 200, 250

Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CM2

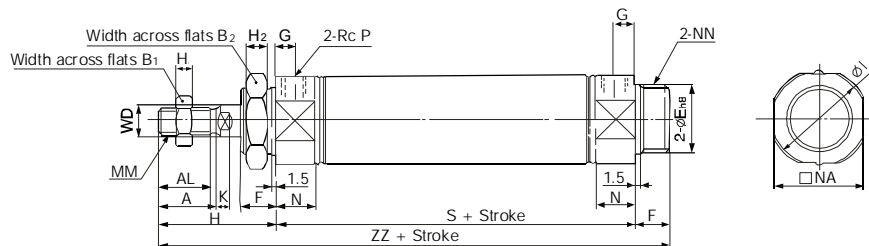
◆ Specifications

Bore size (mm)		20	25	32	40
Action	C(D)M2B□-□	Double acting, single rod			
	C(D)M2B□-□-S/T	Single acting, spring return / extend			
Fluid		Filtered compressed air			
Proof pressure		1.5 MPa			
Operating pressure range	C(D)M2B□-□	0.05~1.0 MPa			
	C(D)M2B□-□-S	0.18~1.0 MPa			
	C(D)M2B□-□-T	0.23~1.0 MPa			
Ambient and fluid temperature		-10~70°C (No freezing)			
Port size		Rc1/8			Rc1/4
Piston rod thread		M8×1.25	M10×1.25		M14×1.5
Cushion	C(D)M2B□-□	Rubber bumper			
	C(D)M2B□-□-S/T	Adjustable air cushion at both ends			
		Rubber bumper			

Note): Please contact with ANSSION for the mounting accessories.

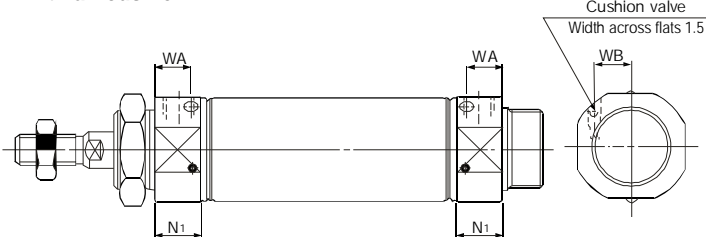
◆ Dimensions

C(D)M2B□-□ (Basic style)

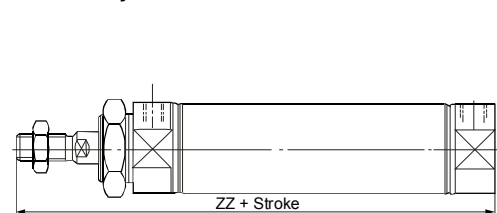


Note): The dimensions of built-in magnet type cylinder are exactly the same as without-magnet type cylinder.

With air cushion



Boss-cut style



Bore size(mm)	A	AL	B ₁	B ₂	D	E	F	G	H	H ₁	H ₂	I	K	MM	N	NA	NN	P	S	ZZ
20	18	15.5	13	26	8	20 ⁰ _{-0.033}	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	Rc1/8	62	116
25	22	19.5	17	32	10	26 ⁰ _{-0.033}	13	8	45	6	8	33.5	5.5	M10×1.25	15	30	M26×1.5	Rc1/8	62	120
32	22	19.5	17	32	12	26 ⁰ _{-0.033}	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	Rc1/8	64	122
40	24	21	22	41	14	32 ⁰ _{-0.039}	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	88	154

With Air Cushion

Bore size(mm)	N ₁	WA	WB
20	17.5	13	8.5
25	17.5	13	10.5
32	17.5	13	11.5
40	21.5	16	15

Boss-cut Style

Bore size(mm)	ZZ
20	103
25	107
32	109
40	138

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

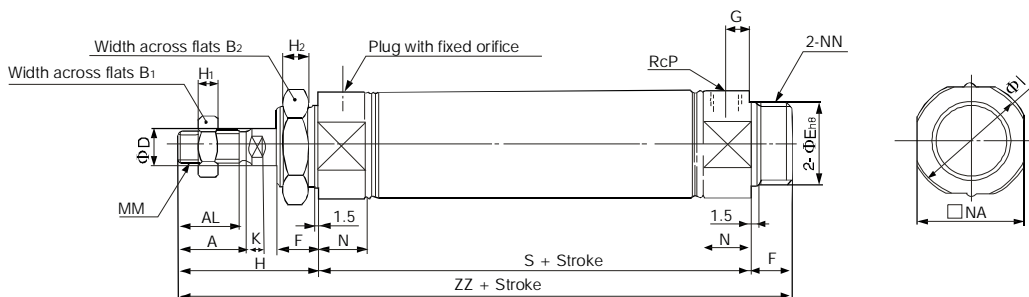
Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

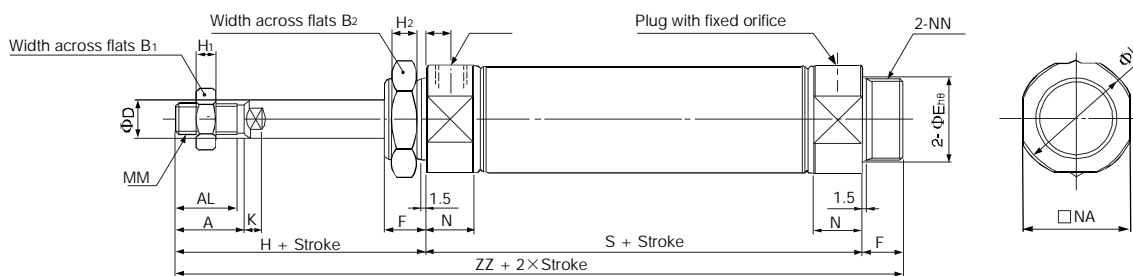
Series CM2

◆ Dimensions

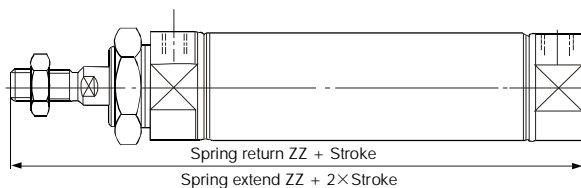
CM2B□-□S (Spring return style)



CM2B□-□T (Spring extend style)



Boss-cut style



Bore size(mm)	A	AL	B ₁	B ₂	D	E	F	G	H	H ₁	H ₂	I	K	MM	N	NA	NN	P
20	18	15.5	13	26	8	20 ⁰ _{-0.033}	13	8	41	5	8	28	5	M8×1.25	15	24	M20×1.5	Rc1/8
25	22	19.5	17	32	10	26 ⁰ _{-0.033}	13	8	45	6	8	33.5	5.5	M10×1.25	15	30	M26×1.5	Rc1/8
32	22	19.5	17	32	12	26 ⁰ _{-0.033}	13	8	45	6	8	37.5	5.5	M10×1.25	15	34.5	M26×1.5	Rc1/8
40	24	21	22	41	14	32 ⁰ _{-0.039}	16	11	50	8	10	46.5	7	M14×1.5	21.5	42.5	M32×2.0	Rc1/4

Dimensions by Stroke

Bore size (mm)	1 to 50		51 to 100		101 to 150		151 to 200		201 to 250	
	S	ZZ	S	ZZ	S	ZZ	S	ZZ	S	ZZ
20	87	141	112	166	137	191	-	-	-	-
25	87	145	112	170	137	195	-	-	-	-
32	89	147	114	172	139	197	164	222	-	-
40	113	179	138	204	163	229	188	254	213	279

Boss-cut Style

Bore size (mm)	1 to 50		51 to 100		101 to 150		151 to 200		201 to 250	
	ZZ	ZZ	ZZ	ZZ	ZZ	ZZ	ZZ	ZZ	ZZ	
20	128	153	178	-	-	-	-	-	-	
25	132	157	182	-	-	-	-	-	-	
32	134	159	184	209	-	-	-	-	-	
40	163	188	213	238	263	-	-	-	-	

Mini Cylinder

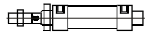
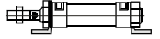

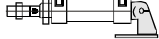
Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series MA, MAC, MSA, MTA

◆ How to Order

MA — [] — 20 — 50 — LB

Mounting style

Nil	LB	FA	SDB
			

* (1) $\Phi 50$, $\Phi 63$ are all with air cushion.
 (2) CM type is only available for $\Phi 50$, $\Phi 63$.

Cylinder stroke

* Refer to "Standard stroke".

Bore size

Back cover type

Nil	Pivot type	U	Flat-end type	CM	Round-end type
-----	------------	---	---------------	----	----------------

* CM only for MAC Series.

Model*

MA	Double acting	MAC	Double acting with air cushion
MSA	Single acting, Spring return	MTA	Single acting, Spring extend

* MA,MAC,MSA,MTA all is built-in magnet.

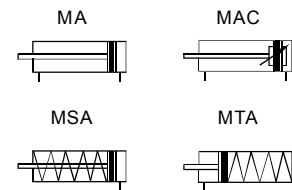


MA Series



MAC Series

Symbol



◆ Specifications

Bore size (mm)		16	20	25	32	40	50	63	
Action	MA / MAC	Double acting type							
	MSA / MTA	Single acting type						-	
Fluid		Filtered compressed air							
Proof pressure		1.35 MPa							
Operating pressure range	MA / MAC	0.1~0.9 MPa							
	MSA / MTA	0.2~0.9 Mpa							
Ambient and fluid temperature		-5~70 °C (No freezing)							
Port size		M5×0.8	Rc1/8				Rc1/4		
Piston rod thread		M6×1.0	M8×1.25	M10×1.25		M12×1.25	M14×1.5		
Cushion	MA / MSA / MTA	Rubber bumper						Adjustable air cushion at both ends	
	MAC	Adjustable air cushion at both ends							

Note): Please contact with ANSSION for the mounting accessories.

Basic

◆ Standard Stroke

Series	Bore size (mm)	Standard stroke(mm)														Maximum stroke	Available stroke		
MA MAC	16	25	50	75	80	100	125	150	160	175	200	300	500						
	20	25	50	75	80	100	125	150	160	175	200	250	300	500	650				
	25~63	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	500	650
MSA	16	25	50	75	100	100	100											100	100
MTA	20~40	25	50	75	100	100	100											100	100

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

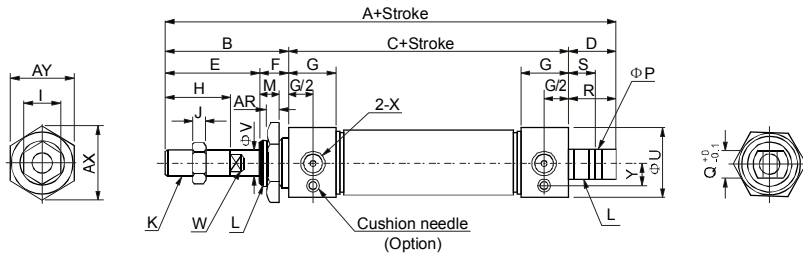
Series MA, MAC, MSA, MTA

◆ Dimensions

MA□-□ φ 16 to 40

MAC□-□

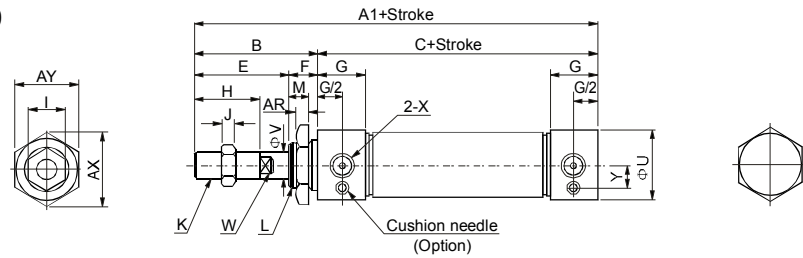
(Pivot style)



MA-U□-□ φ 16 to 40

MAC-U□-□

(Flat-end style)



Bore size(mm)	A	A1	B	C	D	E	F	G	H	I	J	K
16*	114	98	38	60	16	22	16	10	16	10	5	M6×1.0
20	137	116	40	76	21	28	12	16	20	12	6	M8×1.25
25	141	120	44	76	21	30	14	16	22	17	6	M10×1.25
32	147	120	44	76	27	30	14	16	22	17	6	M10×1.25
40	149	122	46	76	27	32	14	16.7	24	17	7	M12×1.25

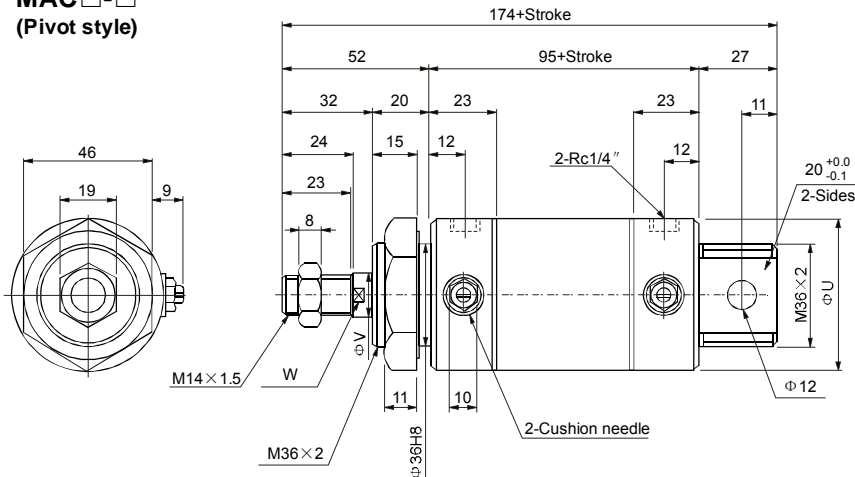
Bore size(mm)	L	M	P	Q	R	S	U	V	W	X	AR	AX	AY	Y#
16*	M16×1.5	14	6	12	14	9	21	6	5	M5	6	25	22	-
20	M22×1.5	10	8	16	19	12	27	8	6	Rc1/8	7	33	29	9
25	M22×1.5	12	8	16	19	12	30	10	8	Rc1/8	7	33	29	10.5
32	M24×2.0	12	10	16	25	15	35	12	10	Rc1/8	8	37	32	13
40	M30×2.0	12	12	20	25	15	41.6	16	14	Rc1/8	9	47	41	15

* MAC type starts from 20mm bore size, #MA type is without this dimension.

MA□-□ φ 50 to 63

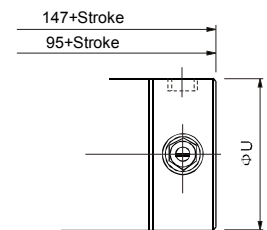
MAC□-□

(Pivot style)

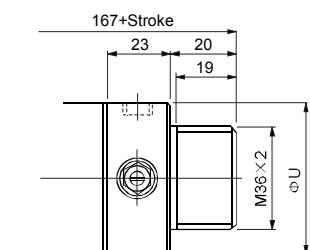


Bore size(mm)	U	V
50	53	16
63	67	16

Flat-end style



Round-end style

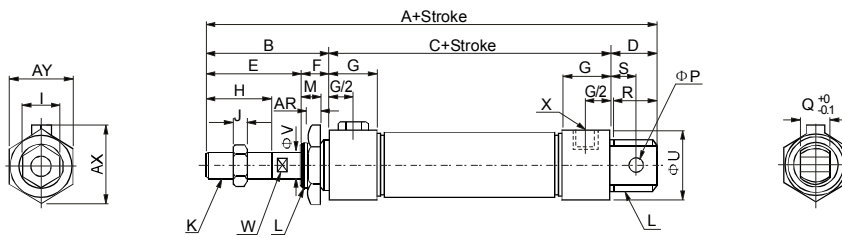


Mini Cylinder

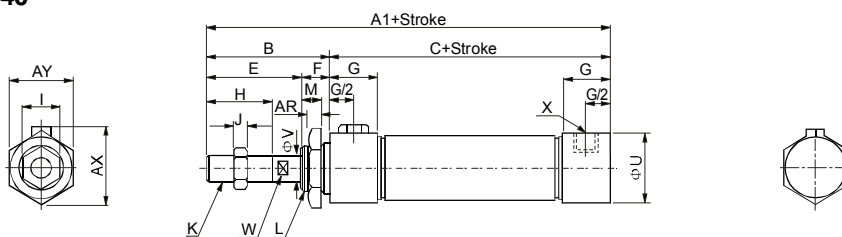
Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series MA, MAC, MSA, MTA

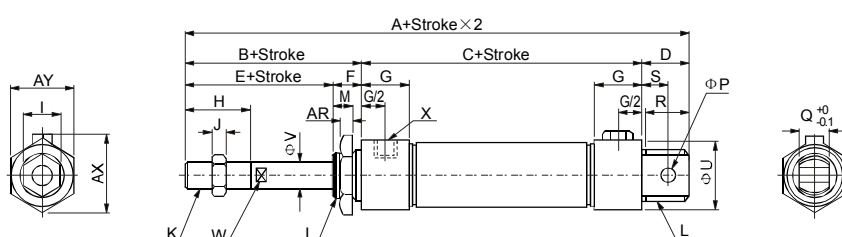
MSA□-□ φ 16 to 40
(Pivot style)



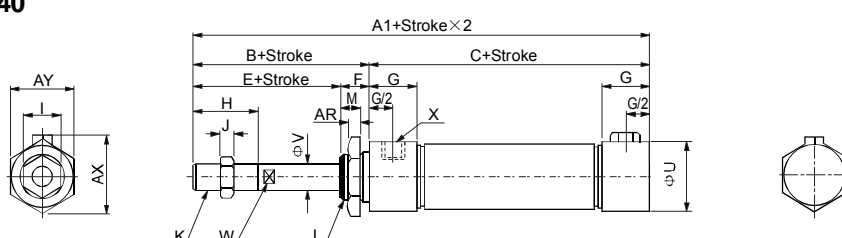
MSA-U□-□ φ 16 to 40
(Flat-end style)



MTA□-□ φ 16 to 40
(Pivot style)



MTA-U□-□ φ 16 to 40
(Flat-end style)



Bore size(mm)	A		A1		B	C		D	E	F	G	H	I	J	K
	0-50	51-100	0-50	51-100		0-50	51-100								
16	114	139	98	123	38	60	85	16	22	16	10	16	10	5	M6×1.0
20	137	162	116	141	40	76	101	21	28	12	16	20	12	6	M8×1.25
25	141	166	120	145	44	76	101	21	30	14	16	22	17	6	M10×1.25
32	147	172	120	145	44	76	101	27	30	14	16	22	17	6	M10×1.25
40	149	174	122	147	46	76	101	27	32	14	16.7	24	17	7	M12×1.25

Bore size(mm)	L	M	P	Q	R	S	U	V	W	X	AR	AX	AY
16	M16×1.5	14	6	12	14	9	21	6	5	M5×0.8	6	25	22
20	M22×1.5	10	8	16	19	12	27	8	6	Rc1/8	7	33	29
25	M22×1.5	12	8	16	19	12	30	10	8	Rc1/8	7	33	29
32	M24×2.0	12	10	16	25	15	35	12	10	Rc1/8	8	37	32
40	M30×2.0	12	12	20	25	15	41.6	16	14	Rc1/8	9	47	41

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series MAL, MSAL, MTAL

◆ How to Order

MAL - CM 20 - 50 - S - LB

Mounting style

Nil	LB	FA	SDB

Magnet

Nil	Without magnet	S	Built-in magnet
-----	----------------	---	-----------------

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

20	25	32	40
----	----	----	----

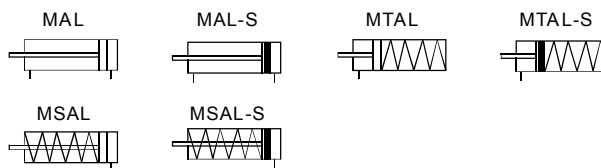
Back cover type

CA	Pivot type	CM	Round-end type	U	Flat-end type
----	------------	----	----------------	---	---------------

Model

MAL	Double acting
MSAL	Single acting, spring return
MTAL	Single acting, spring extend

Symbol



◆ Specifications

Bore size (mm)		20	25	32	40
Action	MAL	Double acting, single rod			
	MSAL / MTAL	Single acting, spring return / extend			
Fluid		Filtered compressed air			
Proof pressure		1.5 MPa			
Operating pressure range	MAL	0.1~0.9 MPa			
	MSAL / MTAL	0.2~0.9 Mpa			
Ambient and fluid temperature		-5~70 °C(No freezing)			
Port size		Rc1/8			Rc1/4
Piston rod thread		M8×1.25	M10×1.25		M12×1.25
Cushion		Rubber bupmer			

Note): Please contact with ANSSION for the mounting accessories.

◆ Standard Stroke

Series	Bore size (mm)	Standard stroke(mm)														Maximum stroke	Available stroke		
MAL	20	25	50	75	80	100	125	150	160	175	200	250	300			500	800		
	25	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	800	1200
	32	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	800	1200
	40	25	50	75	80	100	125	150	160	175	200	250	300	350	400	450	500	1200	1500
MSAL	20	25	50	75	100													100	-
	25	25	50	75	100													100	-
MTAL	32	25	50	75	100													100	-
	40	25	50	75	100													100	-

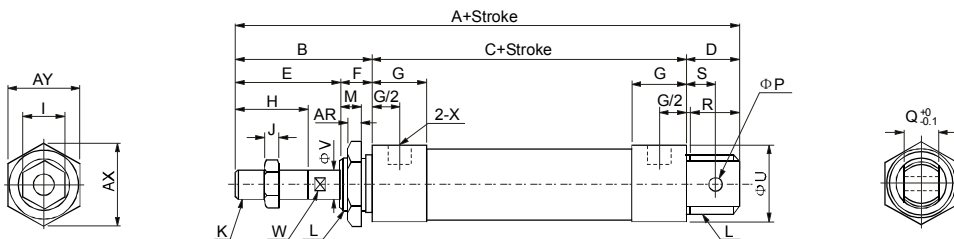
Mini Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

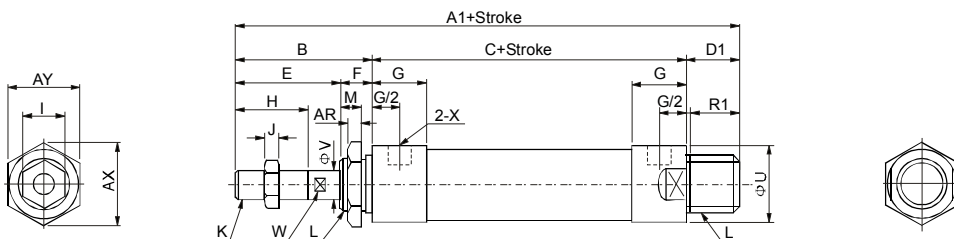
Series MAL, MSAL, MTAL

◆ Dimensions

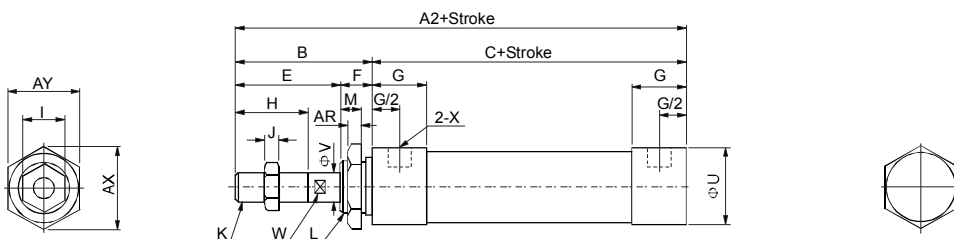
MAL-CA□-□
(Pivot style)



MAL-CM□-□
(Round-end style)



MAL-U□-□
(Flat-end style)



Bore size(mm)	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10×1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12×1.25

Bore size(mm)	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M22×1.5	10	8	16	19	10	12	29	8	6	Rc1/8	7	33	29
25	M22×1.5	12	8	16	19	12	12	34	10	8	Rc1/8	7	33	29
32	M24×2.0	12	10	16	25	12	15	39.5	12	10	Rc1/8	8	37	32
40	M30×2.0	12	12	20	25	12	15	49.5	16	14	Rc1/4	9	47	41

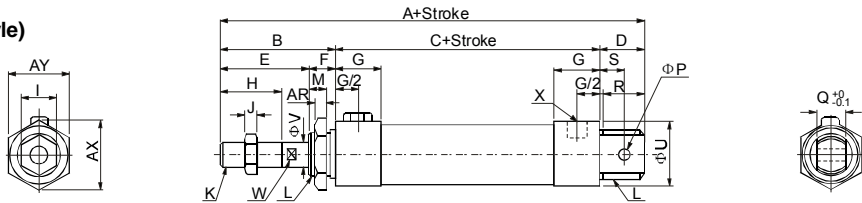
I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Mini Cylinder

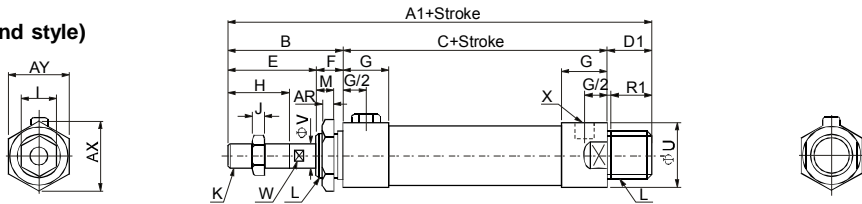
Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series MAL, MSAL, MTAL

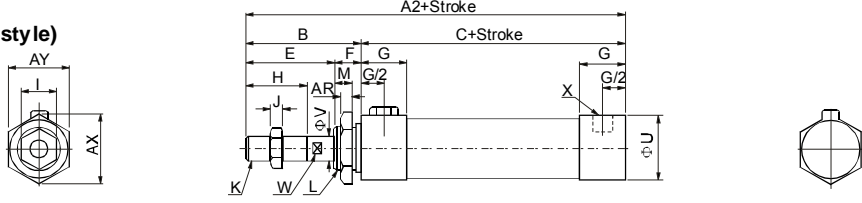
MSAL-CA □-□
(Spring return, Pivot style)



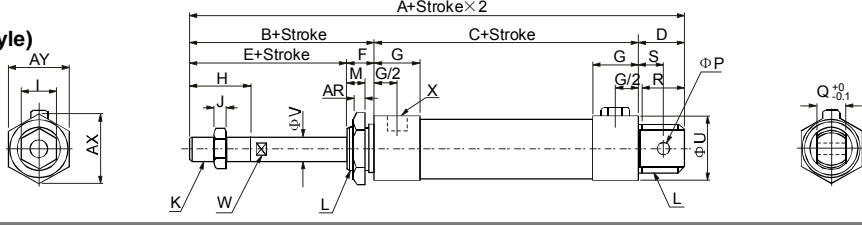
MSAL-CM □-□
(Spring return, Round-end style)



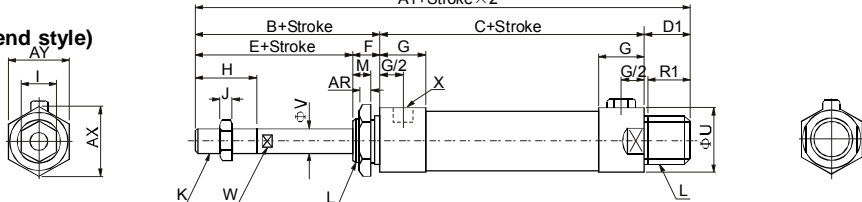
MSAL-CU □-□
(Spring return, Flat-end style)



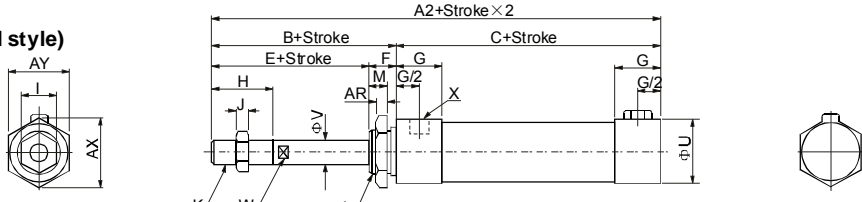
MTAL-CA □-□
(Spring extend, Pivot style)



MTAL-CM □-□
(Spring extend, Round-end style)



MTAL-CU □-□
(Spring extend, Flat-end style)



Bore size(mm)	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7

Bore size(mm)	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 × 1.25	M22 × 1.5	10	8	16	19	10	12	29	8	6	Rc1/8	7	33	29
25	M10 × 1.25	M22 × 1.5	12	8	16	19	12	12	34	10	8	Rc1/8	7	33	29
32	M10 × 1.25	M24 × 2.0	12	10	16	25	12	15	39.5	12	10	Rc1/8	8	37	32
40	M12 × 1.25	M30 × 2.0	12	12	20	25	12	15	49.5	16	14	Rc1/4	9	47	41

Compact Cylinder

Double Acting, Single Rod / Double Rod

Series ADVU

◆ How to Order

ADVU 50-80-□-P-A-S2

Piston rod

Nil	Single rod
S2	Double rod

Magnet

A	Built-in magnet
---	-----------------

Cushion

P	Rubber bumper
---	---------------

Piston rod thread

Nil	Female thread
A	Male thread

Cylinder Stroke(mm)

1...400mm

Bore size(mm)

16	20	25	32	40	50	63	80	100
----	----	----	----	----	----	----	----	-----

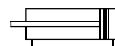
Mode

ADVU	Compact cylinder, Double-acting,
------	----------------------------------

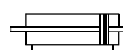


Symbol

ADVU□-□-P-A



ADVU□-□-P-A-S2



◆ Specifications

Bore size (mm)	16	20	25	32	40	50	63	80	100
Action	Double acting, single rod/double rod								
Fluid	Filtered compressed air								
Proof pressure	1.5MPa								
Operating pressure range	ADVU□-□-P-A	0.12~1.0 MPa	0.1~1.0 MPa	0.08~1.0 MPa			0.06~1.0 MPa		
	ADVU□-□-P-A-S2	0.13~1.0 MPa	0.12~1.0 MPa	0.1~1.0 MPa			0.8~1.0 MPa		
Ambient and fluid temperature	-20~80℃(No freezing)								
Port size	M5			G1/8				G1/4	
Piston rod thread	Female thread	M4	M5	M6	M8	M10	M12		
	Male thread	M8	M10×1.25			M12×1.25		M16×1.5	M20×1.5
Cushion	Rubber bumper								

Note): Please contact with ANSSION for the mounting accessories.

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

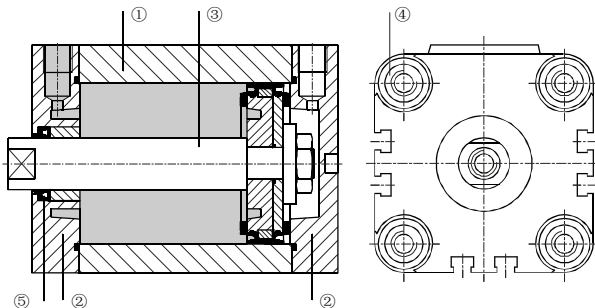
RBQ

Compact Cylinder

Double Acting, Single Rod / Double Rod

Series ADVU

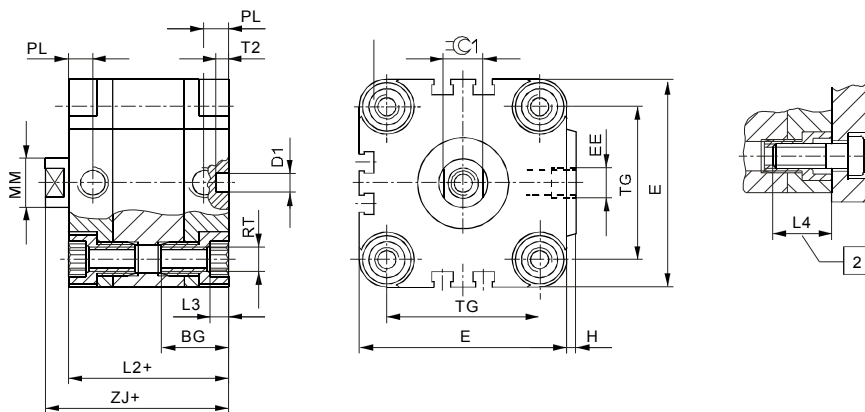
◆ Materials



Variants	Type	
① Cylinder barrel	Wrought aluminium alloy	
② End cap	Wrought aluminium alloy	
③ Piston rod	φ 16...32	High-alloy stainless steel
	φ 40...100	High-alloy steel
④ Flange screws	φ 16	High-alloy stainless steel
	φ 20...100	Tempered steel
⑤ Dynamic seals	Polyurethane	

◆ Dimensions

ADVU□-□-P-A
(Basic style)



- - Note
To attach cylinder . 12 and 16 mm from above, use only 2 screws diagonally or non-magnetic screws.

+ = plus stroke length

2 Minimum screw-in depth

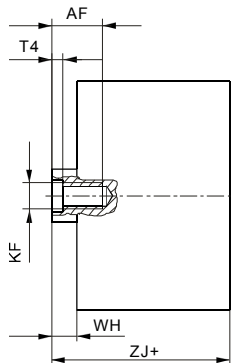
Bore size (mm)	BG	D1 φ H9	E	EE	H	L2	L3	L4	MM φ	PL	RT	T2	TG	ZJ	C1
16	18.5	6	29	M5	1	38	3	16	8	8	M4	4	18	42.5	7
20	18.5	6	36	M5	1.5	38	4	18	10	8	M5	4	22	42.5	9
25	18.5	6	40	M5	1.5	39.5	4	18	10	8	M5	4	26	45	9
32	21.5	6	50	G1/8	2	44.5	5	20	12	8	M6	4	32	50.5	10
40	21.5	6	60	G1/8	2.5	45.5	5	20	12	8	M6	4	42	52	10
50	22	6	68	G1/8	3	45.5	6	20	16	8	M8	4	50	53	13
63	24.5	8	87	G1/8	4	50	8	25	16	8	M10	4	62	57.5	13
80	27.5	8	107	G1/8	4	56	8	25	20	8.5	M10	4	82	64	17
100	32.5	8	128	G1/4	5	66.5	8	25	35	10.5	M10	4	103	76.5	22

Compact Cylinder

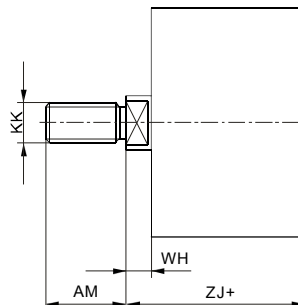
Double Acting, Single Rod / Double Rod

Series ADVU

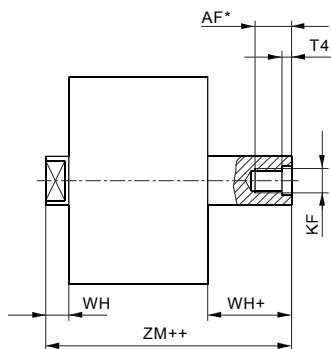
ADVU□-□-P-A
(Basic style, female thread)



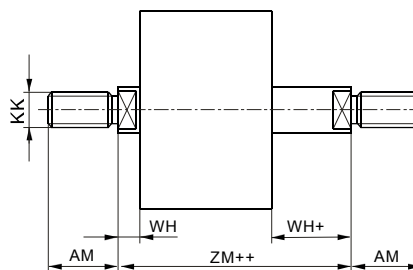
ADVU□-□-A-P-A
(Basic style, male thread)



ADVU□-□-P-A-S2
(Double rod style, female thread)



ADVU□-□-A-P-A-S2
(Double rod style, male thread)



Bore size (mm)	AF	AM	KF	KK	T4	WH	ZJ	ZM
16	10	20	M4	M8	1.5	4.5	42.5	47
20	12	22	M5	M10×1.25	2	4.5	42.5	47
25	12	22	M5	M10×1.25	2	5.5	45	50.5
32	14	22	M6	M10×1.25	2.6	6	50.5	56.5
40	14	22	M6	M10×1.25	2.6	6.5	52	58.5
50	16	24	M8	M12×1.25	3.3	7.5	53	60.5
63	16	24	M8	M12×1.25	3.3	7.5	57.5	65
80	20	32	M10	M16×1.5	4.7	8	64	72
100	24	40	M12	M20×1.5	6.1	10	76.5	86.5

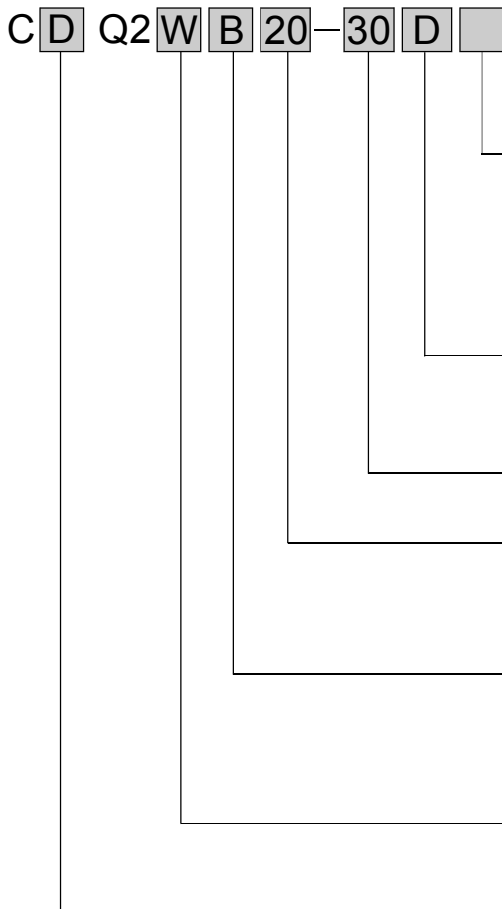
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU**
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

◆ How to Order



Body option

Nil	Standard (rod end female thread, without cushion)
F	With boss in head side
C	With rubber bumper
M	Rod end male thread

* Combination of body options ("CM" , "FC" , "FM" , "FCM") is available.

Action

D	Double acting		
S	Single acting, spring return	T	Single acting, spring extend

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)*

12	16	20	25	32
40	50	63	80	100

* Single acting only is available for ϕ 12- ϕ 50mm.

Mounting style

B	Through-hole (standard)	F	Rod side flange style
A	Both ends tapped style	G	Head side flange style
L	Foot style	D	Double clevis style

Piston rod

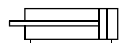
Nil	Single rod	W	Double rod
-----	------------	---	------------

Magnet

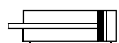
Nil	Without magnet	D	Built-in magnet
-----	----------------	---	-----------------

Symbol

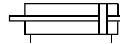
CQ2B□-□D



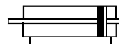
CDQ2B□-□D



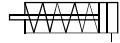
CQ2WB□-□D



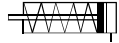
CDQ2WB□-□D



CQ2B□-□S



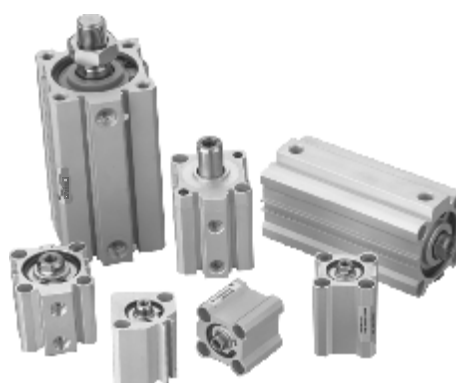
CDQ2B□-□S



CQ2B□-□T



CDQ2B□-□T



◆ Standard Stroke

Bore size (mm)	Standard stroke (mm)	
	Double acting, single / double rod	Single acting, spring return / extend
12, 16	5, 10, 15, 20, 25, 30	5, 10
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	
50 to 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	10, 20 (only for ϕ 50)

* When stroke exceeds the standard range, Please contact with ANSSION.

Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

◆ Specifications

Bore size (mm)		12	16	20	25	32	40	50	63	80	100	
Action	C(D)Q2(W)B□-□D	Double acting, single rod / double rod										
	C(D)Q2B□-□S/T	Single acting, spring return / extend										
Fluid		Filtered compressed air										
Proof pressure		1.5 MPa										
Operating pressure range	C(D)Q2(W)B□-□D	0.07~1.0 MPa				0.05~1.0 MPa						
	C(D)Q2B□-□S/T	0.25~1.0 MPa	0.18~1.0 MPa			0.17~1.0MPa	0.15~1.0MPa	0.13~1.0MPa	-			
Ambient and fluid temperature		-10~70°C (No freezing)										
Port size		M5×0.8				Rc1/8		Rc1/4		Rc3/8		
Piston rod thread	Female thread	M3×0.5	M4×0.7	M5×0.8	M6×1.0	M8×1.25		M10×1.25		M16×2.0	M20×2.5	
	Male thread	M5×0.8	M6×1.0	M8×1.25	M10×1.25	M14×1.5		M18×1.5		M22×1.5	M26×1.5	
Cushion		Without cushion / Rubber bumper										

Note): Please contact with ANSSION for the mounting accessories.

◆ Dimensions

CQ2B□-□D φ 12 to 25
Basic style (Through-hole), without magnet

Both ends tapped style

Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side

Bore size(mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread

Bore size(mm)	C1	X	H1	L1
12	9	10.5	M5×0.8	14
16	10	12	M6×1.0	15.5
20	12	14	M8×1.25	18.5
25	15	17.5	M10×1.25	22.5

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	H	I	K	L	M	N	O	Q	Z
12	5 to 30	20.5	17	6	6	25	5	M3×0.5	32	5	3.5	15.5	3.5	6.5 depth 3.5	7.5	-
16	5 to 30	22	18.5	8	8	29	5.5	M4×0.7	38	6	3.5	20	3.5	6.5 depth 3.5	8	10
20	5 to 50	24	19.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5	5.5	9 depth 7	9	10
25	5 to 50	27.5	22.5	12	12	40	5.5	M6×1.0	52	10	5	28	5.5	9 depth 7	11	10

Note): External dimensions with rubber bumper are same as standard type as shown above.

- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2**
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA 1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

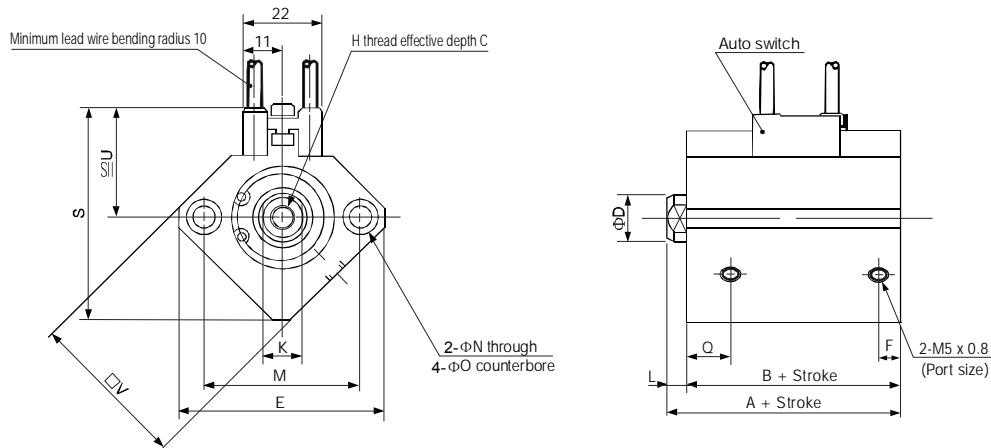
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

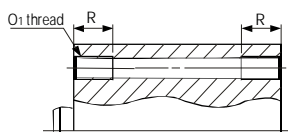
Series CQ2, CDQ2

CDQ2B□-□D φ 12 to 25

Basic style (Through-hole), built-in magnet

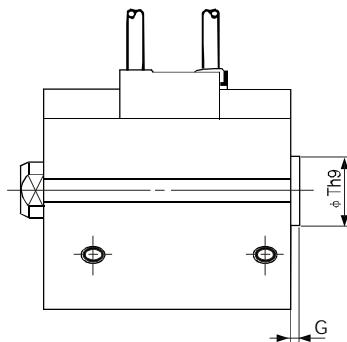


Both ends tapped style



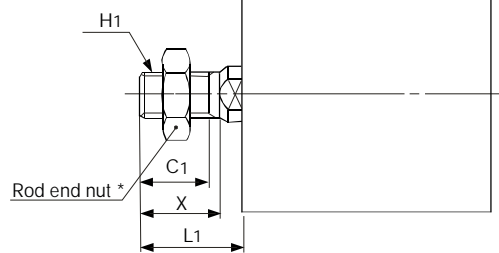
Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side



Bore size(mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread



Bore size(mm)	C1	X	H1	L1
12	9	10.5	M5×0.8	14
16	10	12	M6×1.0	15.5
20	12	14	M8×1.25	18.5
25	15	17.5	M10×1.25	22.5

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	H	K	L	M	N	O	Q	S	U	V
12	5 to 30	31.5	28	6	6	32	6.5	M3×0.5	5	3.5	22	3.5	6.5 depth 3.5	11	35.5	19.5	25
16	5 to 30	34	30.5	8	8	38	5.5	M4×0.7	6	3.5	28	3.5	6.5 depth 3.5	10	41.5	22.5	29
20	5 to 50	36	31.5	7	10	47	5.5	M5×0.8	8	4.5	36	5.5	9 depth 7	10.5	48	24.5	36
25	5 to 50	37.5	32.5	12	12	52	5.5	M6×1.0	10	5	40	5.5	9 depth 7	11	53.5	27.5	40

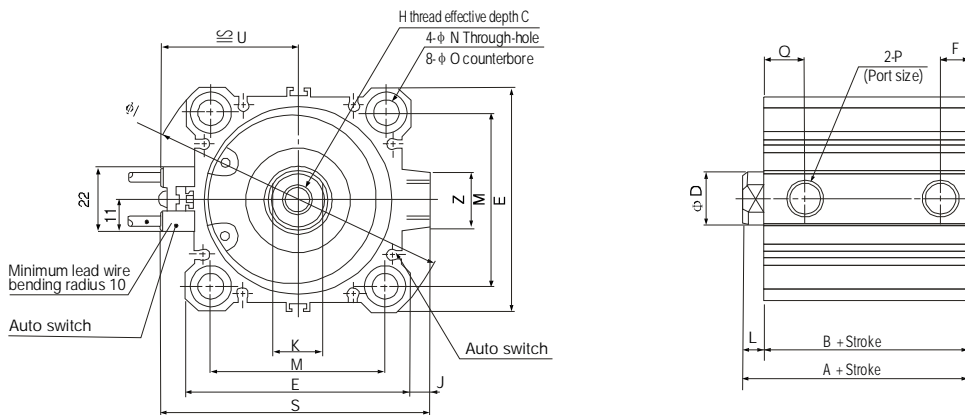
Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

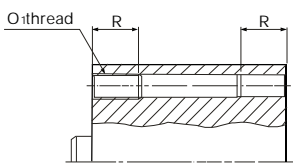
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

C(D)Q2B□-□D φ 32 to 50
Basic style (Through-hole)

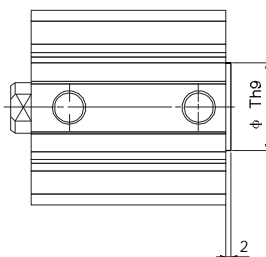


Both Ends Tapped Style



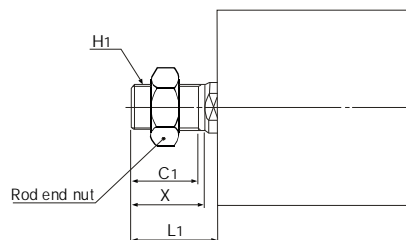
Bore size (mm)	O ₁	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

With boss in head side



Bore size (mm)	Th9
32	21 ⁰ _{-0.052}
40	28 ⁰ _{-0.052}
50	35 ⁰ _{-0.062}

Rod end male thread



Bore size (mm)	C1	X	H1	L1
32	20.5	23.5	M14×1.5	28.5
40	20.5	23.5	M14×1.5	28.5
50	26	28.5	M18×1.5	33.5

Bore size (mm)	Stroke range (mm)	Without magnet					Built-in magnet					C	D	E
		A	B	F	P	Q	A	B	F	P	Q			
32	5	30	23	5.5	M5×0.8	11.5	40	33	7.5	Rc 1/8	10.5	13	16	45
	10 to 50			7.5	Rc 1/8	10.5								
	75, 100	40	33											
40	5 to 50	36.5	29.5	8	Rc 1/8	11	46.5	39.5	8	Rc 1/8	11	13	16	52
	75, 100	46.5	39.5											
50	10 to 50	38.5	30.5	10.5	Rc 1/4	10.5	48.5	40.5	10.5	Rc 1/4	10.5	15	20	64
	75, 100	48.5	40.5											

Bore size (mm)	H	I	J	K	L	M	N	O	S	U	Z
32	M8×1.25	60	4.5	14	7	34	5.5	9 depth 7	58.5	31.5	14
40	M8×1.25	69	5	14	7	40	5.5	9 depth 7	66	35	14
50	M10×1.5	86	7	17	8	50	6.6	11 depth 8	80	41	19

Note): External dimensions with rubber bumper are same as standard type as shown above.

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

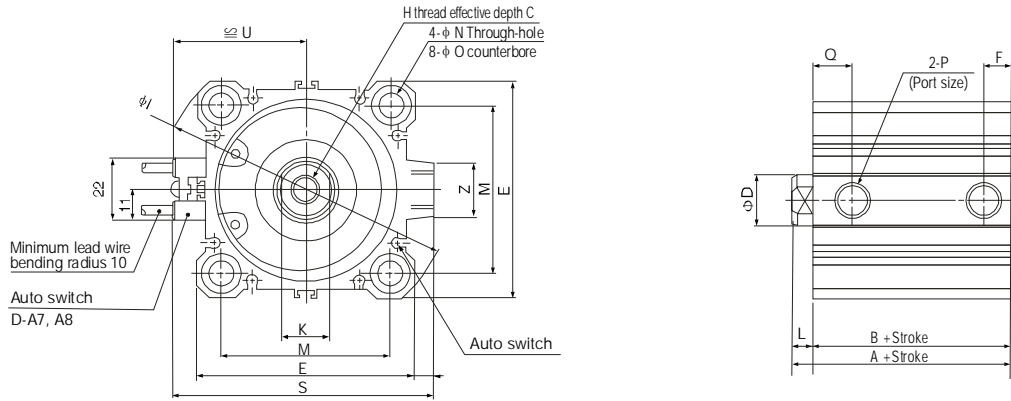
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

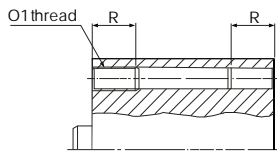
Series CQ2, CDQ2

C(D)Q2B□-□D φ 63 to 100

Basic style (Through-hole)

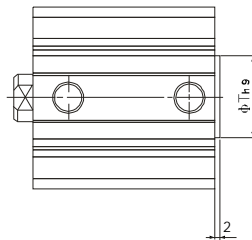


Both Ends Tapped Style



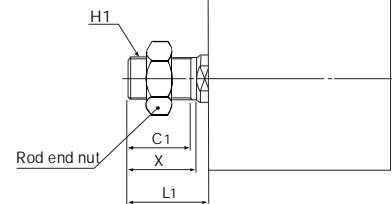
Bore size (mm)	O1	R
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

With boss in head side



Bore size (mm)	Th9
63	35 ⁰ _{-0.062}
80	43 ⁰ _{-0.062}
100	59 ⁰ _{-0.074}

Rod end male thread



Bore size (mm)	C1	X	H1	L1
63	26	28.5	M18×1.5	33.5
80	32.5	35.5	M22×1.5	43.5
100	32.5	35.5	M26×1.5	43.5

Bore size (mm)	Stroke range (mm)	Without magnet		Built-in magnet		C	D	E	F	H	I	J	K	M	N	O	P	Q	S	U	Z
		A	B	A	B																
63	10 to 50	44	36	54	46	15	20	77	10.5	M10×1.5	103	7	17	60	9	14 depth 10.5	Rc 1/4	15	93	47.5	19
	75, 100	54	46																		
80	10 to 50	53.5	43.5	63.5	53.5	21	25	98	12.5	M16×2.0	132	6	22	77	11	17.5 depth 13.5	Rc 3/8	16	112.5	57.5	26
	75, 100	63.5	53.5																		
100	10 to 50	65	53	75	63	27	30	117	13	M20×2.5	156	6.5	27	94	11	17.5 depth 13.5	Rc 3/8	23	132.5	67.5	26
	75, 100	75	63																		

Note): External dimensions with rubber bumper are same as standard type as shown above.

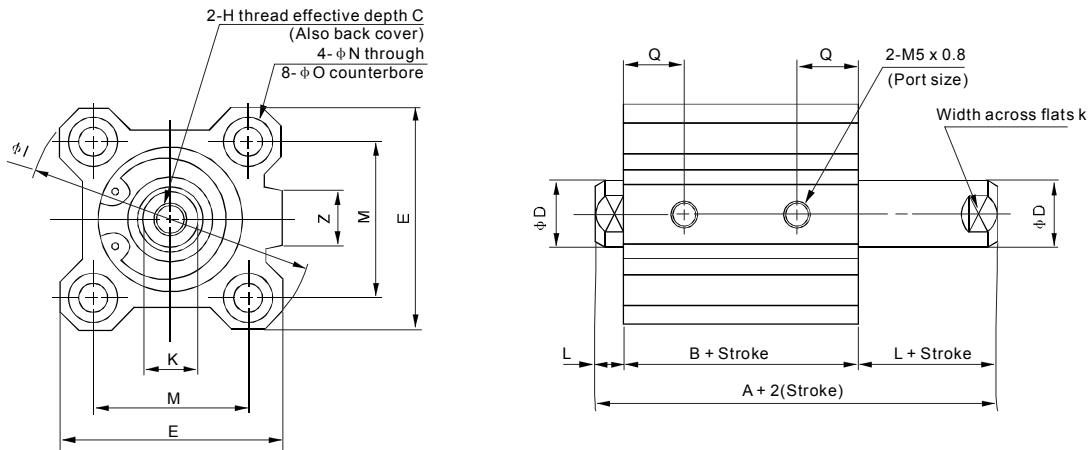
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

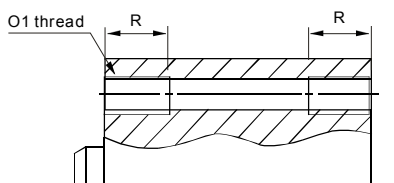
Series CQ2, CDQ2

CQ2WB□-□D φ 12 to 25

Double rod style (Through-hole), without magnet

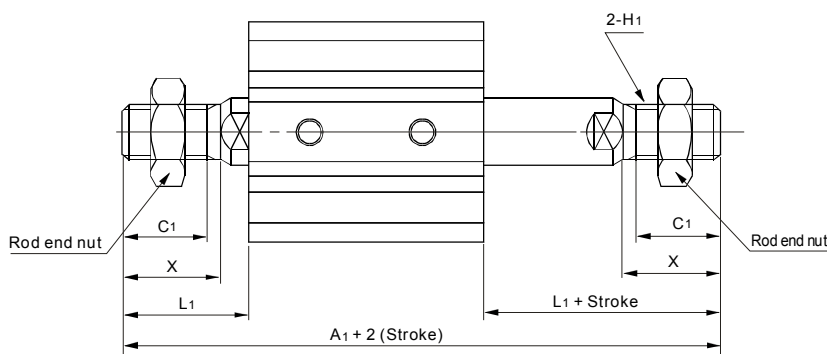


Both ends tapped style



Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod end male thread



Bore size (mm)	A1	C1	H1	L1	X
12	53.2	9	M5×0.8	14	10.5
16	57	10	M6×1.0	15.5	12
20	63	12	M8×1.25	18.5	14
25	74	15	M10×1.25	22.5	17.5

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	I	K	L	M	N	O	Q	Z
12	5 to 30	32.2	25.2	6	6	25	M3×0.5	32	5	3.5	15.5	3.5	6.5 depth 3.5	10	-
16	5 to 30	33	26	8	8	29	M4×0.7	38	6	3.5	20	3.5	6.5 depth 3.5	10	10
20	5 to 50	35	26	7	10	36	M5×0.8	47	8	4.5	25.5	5.5	9 depth 7	9.5	10
25	5 to 50	39	29	12	12	40	M6×1.0	52	10	5	28	5.5	9 depth 7	11	10

Note): External dimensions with rubber bumper are same as standard type as shown above.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

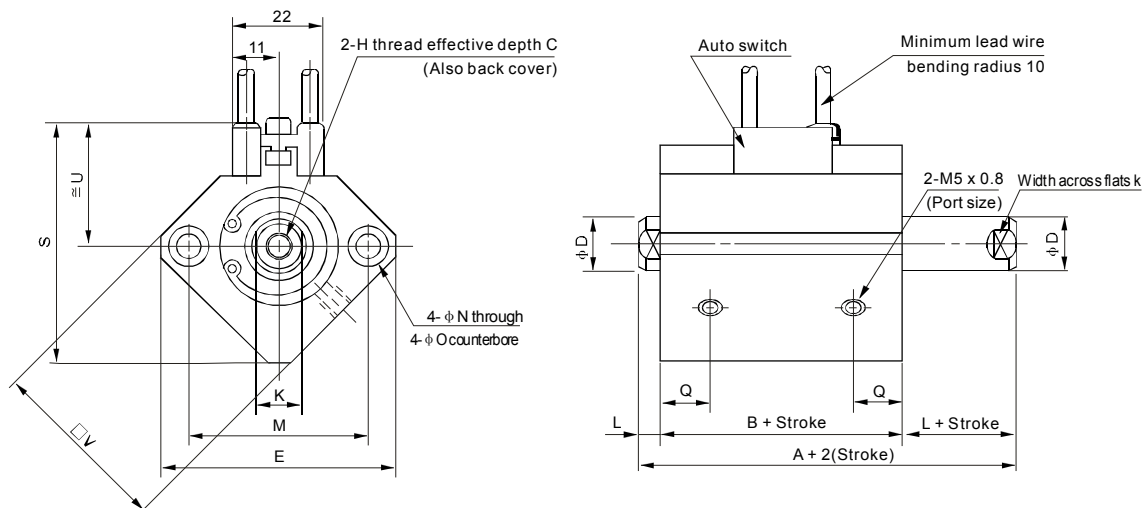
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

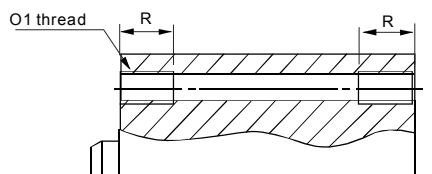
Series CQ2, CDQ2

CDQ2WB □-□D ϕ 12 to 25

Double rod style (Through-hole), built-in magnet

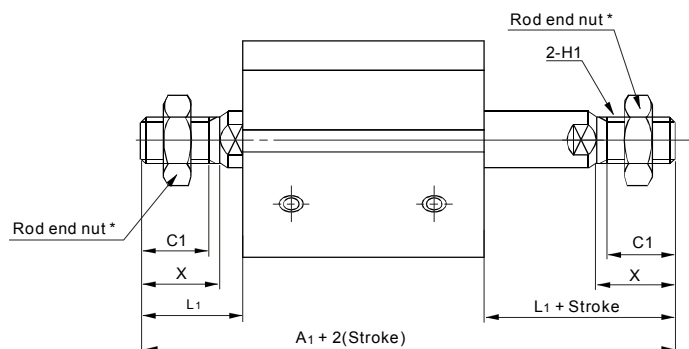


Both ends tapped style



Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

Rod ends male thread



Bore size (mm)	A1	C1	H1	L1	X
12	60.4	9	M5×0.8	14	10.5
16	67	10	M6×1.0	15.5	12
20	75	12	M8×1.25	18.5	14
25	84	15	M10×1.25	22.5	17.5

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	K	L	M	N	O	Q	S	U	V
12	5 to 30	39.4	32.4	6	6	32	M3×0.5	5	3.5	22	3.5	6.5 depth 3.5	10.5	35.5	19.5	25
16	5 to 30	43	36	8	8	38	M4×0.7	6	3.5	28	3.5	6.5 depth 3.5	10	41.5	22.5	29
20	5 to 50	47	38	7	10	47	M5×0.8	8	4.5	36	5.5	9 depth 7	10.5	48	24.5	36
25	5 to 50	49	39	12	12	52	M6×1.0	10	5	40	5.5	9 depth 7	11	53.5	27.5	40

Note): External dimensions with rubber bumper are same as standard type as shown above.

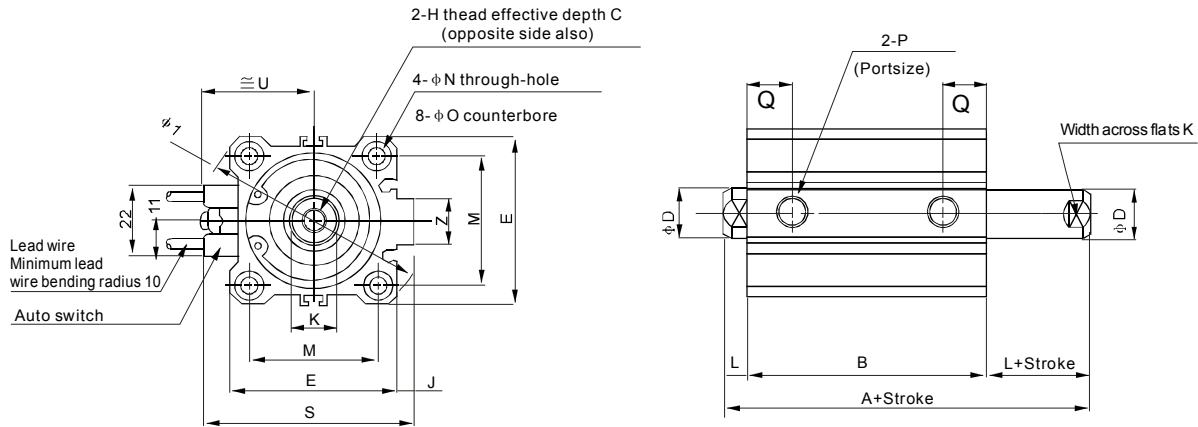
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

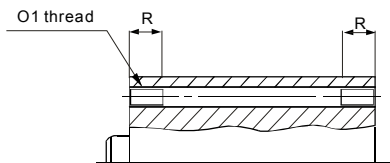
Series CQ2, CDQ2

C(D)Q2WB□-□D φ 32 to 50

Double rod style (Through-hole)

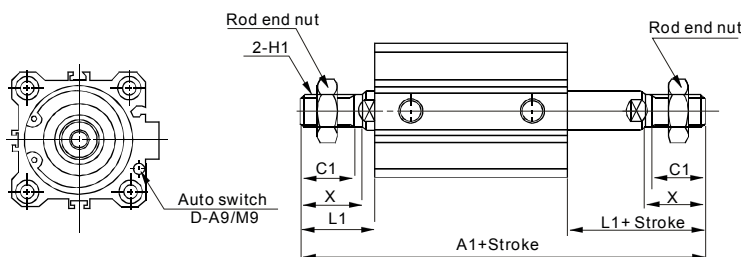


Both ends tapped style



Bore size (mm)	O1	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.0	14

Rod end male thread



Bore size (mm)	Without magnet			Built-in magnet		
	A1			A1		
	50 "or less	55 to 75	80 to 100	50 "or less	55 to 75	80 to 100
32	87.5 + Stroke	172.5	197.5	97.5 + Stroke	172.5	197.5
40	97 + Stroke	182	207	107 + Stroke	182	207
50	107.5 + Stroke	192.5	217.5	117.5 + Stroke	192.5	217.5

Bore size (mm)	C1	H1	L1	X
32	20.5	M14×1.5	28.5	23.5
40	20.5	M14×1.5	28.5	23.5
50	26	M18×1.5	33.5	28.5

Bore size (mm)	Without magnet						Built-in magnet								
	A		B		P		A		B		P				
	50 "or less	55 to 75	80 to 100	50 "or less	55 to 75	80 to 100	50 "or less	55 to 75	80 to 100	50 "or less	55 to 75	80 to 100	50 to 100"		
32	44.5 + Stroke	129.5	154.5	30.5 + Stroke	115.5	140.5	M5×0.8	Rc 1/8	54.5 + Stroke	129.5	154.5	40.5 + Stroke	115.5	140.5	Rc 1/8
40	54 + Stroke	139	164	40 + Stroke	125	150	Rc 1/8	Rc 1/8	64 + Stroke	139	164	50 + Stroke	125	150	Rc 1/8
50	56.5 + Stroke	141.5	166.5	40.5 + Stroke	125.5	150.5	Rc 1/4	Rc 1/4	66.5 + Stroke	141.5	166.5	50.5 + Stroke	125.5	150.5	Rc 1/4

Bore size (mm)	C	D	E	H	I	J	K	L	M	N	O	Q	S	U	Z
32	13	16	45	M8×1.25	60	4.5	14	7	34	5.5	9 depth	12.5	58.5	31.5	14
40	13	16	52	M8×1.25	69	5	14	7	40	5.5	9 depth	14	66	35	14
50	15	20	64	M10×1.5	86	7	17	8	50	6.6	11 depth	14	80	41	19

Note): External dimensions with rubber bumper are same as standard type as shown above.

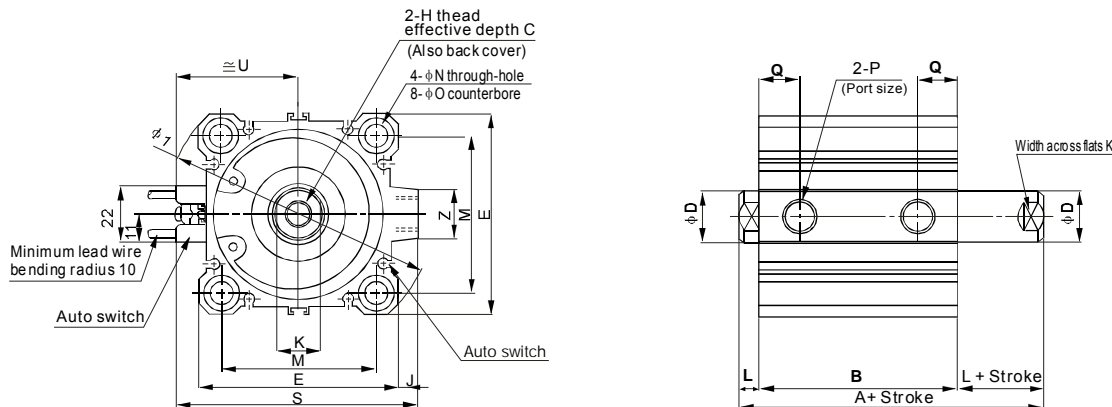
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2**
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS Auto switch
- D Auto switch
- AC,AD
- HR
- RB
- RBQ

Compact Cylinder

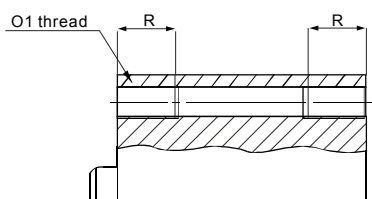
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

C(D)Q2WB□-□D φ 63 to 100 Double rod style (Through-hole)

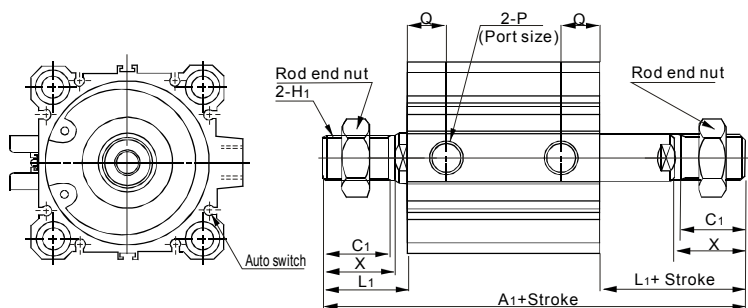


Both ends tapped style



Bore size (mm)	O1	R
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

Rod end male thread



Bore size (mm)	Without magnet			Built-in magnet		
	A1			A1		
	50 [#] or less	55 to 75	80 to 100	50 [#] or less	55 to 75	80 to 100
63	109 + Stroke	194	219	119 + Stroke	194	219
80	138 + Stroke	223	248	223 + Stroke	223	248
100	147.5 + Stroke	232.5	257.5	232.5 + Stroke	232.5	257.5

Bore size (mm)	C1	H1	L1	X
63	26	M18×1.5	33.5	28.5
80	32.5	M22×1.5	43.5	35.5
100	32.5	M26×1.5	43.5	35.5

Bore size (mm)	Stroke range (mm)	Without magnet						Built-in magnet					
		A			B			A			B		
		50 [#] or less	55 to 75	80 to 100	50 [#] or less	55 to 75	80 to 100	50 [#] or less	55 to 75	80 to 100	50 [#] or less	55 to 75	80 to 100
63	10 to 50, 75, 100	58 + Stroke	143	168	42 + Stroke	127	152	68 + Stroke	143	168	52 + Stroke	127	152
80	10 to 50, 75, 100	71 + Stroke	156	181	51 + Stroke	236	161	81 + Stroke	156	181	61 + Stroke	136	161
100	10 to 50, 75, 100	84.5 + Stroke	169.5	194.5	60.5 + Stroke	145.5	170.5	94.5 + Stroke	169.5	194.5	70.5 + Stroke	145.5	170.5

Bore size (mm)	C	D	E	H	I	J	K	L	M	N	O	Q	P	S	U	Z
63	15	20	77	M10×1.5	103	7	17	8	60	9	14 depth 10.5	15.5	Rc 1/4	93	47.5	19
80	21	25	98	M16×2.0	132	6	22	10	77	11	17.5 depth 13.5	18	Rc 3/8	112.5	57.5	26
100	27	30	117	M20×2.5	156	6.5	27	12	94	11	17.5 depth 13.5	22	Rc 3/8	132.5	67.5	26

Note): External dimensions with rubber bumper are same as standard type as shown above.

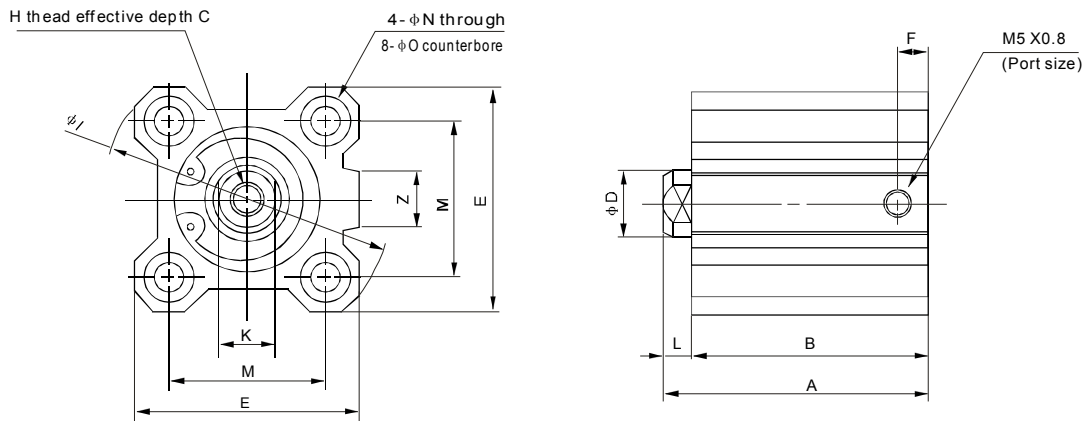
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

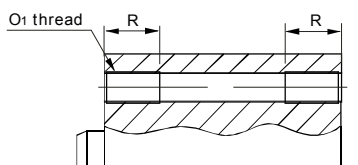
Series CQ2, CDQ2

CQ2B□-□S ϕ 12 to 25

Spring return style (Through-hole), without magnet

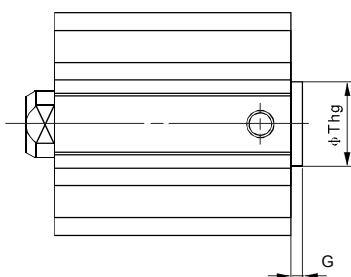


Both Ends Tapped Style



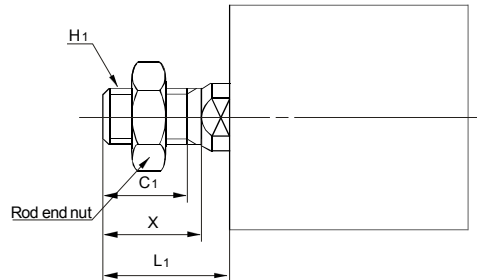
Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side



Bore size (mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread



Bore size (mm)	C1	X	H1	L1
12	9	10.5	M5×0.8	14
16	10	12	M6×1.0	15.5
20	12	14	M8×1.25	18.5
25	15	17.5	M10×1.25	22.5

Bore size (mm)	A		B		C	D	E	F	H	I	K	L	M	N	O	Z
	5 st	10 st	5 st	10 st												
12	25.5	30.5	22	27	6	6	25	5	M3×0.5	32	5	3.5	15.5	3.5	6.5 depth 3.5	-
16	27	32	23.5	28.5	8	8	29	5.5	M4×0.7	38	6	3.5	20	3.5	6.5 depth 3.5	10
20	29	34	24.5	29.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5	5.5	9 depth 7	10
25	32.5	37.5	27.5	32.5	12	12	40	5.5	M6×1.0	52	10	5	28	5.5	9 depth 7	10

Note): External dimensions with rubber bumper are same as standard type as shown above.

I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2**
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

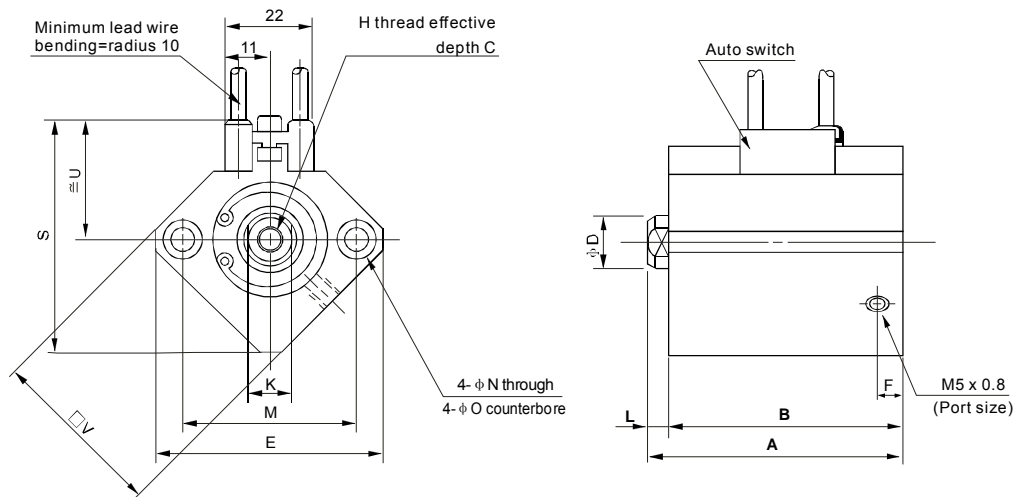
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

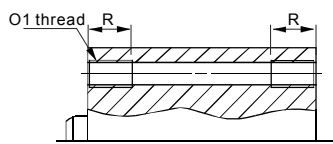
Series CQ2, CDQ2

CDQ2B□-□S φ 12 to 25

Spring return sytle(Through-hole),built-in magnet

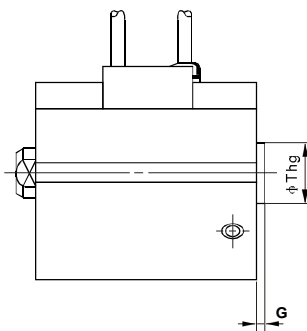


Both Ends Tapped Style



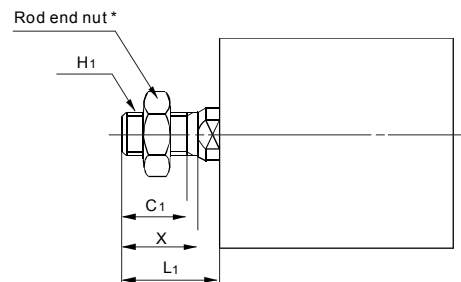
Bore size (mm)	Q1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side



Bore size (mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread



Bore size (mm)	C1	X	H1	L1
12	9	10.5	M5×0.8	14
16	10	12	M6×1.0	15.5
20	12	14	M8×1.25	18.5
25	15	17.5	M10×1.25	22.5

Bore size (mm)	A		B		C	D	E	F	H	K	L	M	N	O	S	U	V
	5 st	10 st	5 st	10 st													
12	36.5	41.5	33	38	6	6	32	6.5	M3×0.5	5	3.5	15.5	3.5	6.5 depth 3.5	35.5	19.5	25
16	39	44	35.5	40.5	8	8	38	5.5	M4×0.7	6	3.5	20	3.5	6.5 depth 3.5	41.5	22.5	29
20	41	46	36.5	41.5	7	10	47	5.5	M5×0.8	8	4.5	25.5	5.5	9 depth 7	48	24.5	36
25	42.5	47.5	37.5	42.5	12	12	52	5.5	M6×1.0	10	5	28	5.5	9 depth 7	53.5	27.5	40

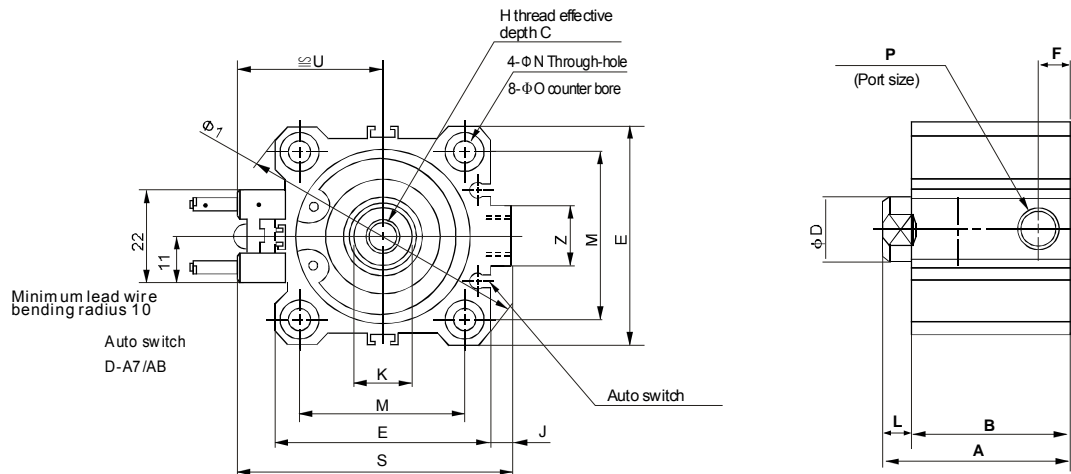
Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

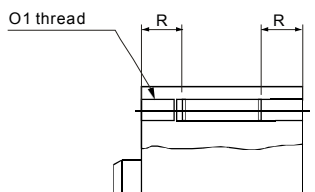
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

C(D)Q2B□-□S ϕ 32 to 50
Spring return style (Through-hole)

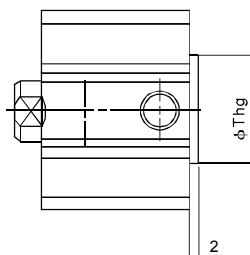


C(D)Q2A□-□S
Both Ends Tapped Style



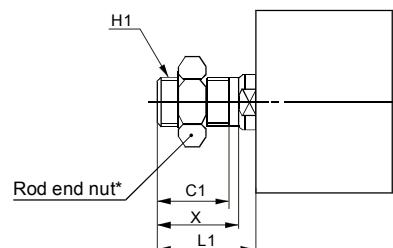
Bore size (mm)	O1	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

With boss in head side



Bore size (mm)	Th9
32	21 ⁰ _{-0.052}
40	28 ⁰ _{-0.052}
50	35 ⁰ _{-0.062}

Rod end male thread



Bore size (mm)	C1	X	H1	L1
32	20.5	10.5	M14×1.5	28.5
40	20.5	12	M14×1.5	28.5
50	26	14	M18×1.5	33.5

Bore size (mm)	Without magnet												Built-in magnet							
	A			B			F			P			A			B			F	P
	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st		
32	35	40	-	28	33	-	5.5	7.5	-	M5x0.8	Rc 1/8	-	45	50	-	38	43	-	7.5	Rc1/8
40	41.5	46.5	-	34.5	39.5	-	8	8	-	Rc 1/8	-	-	51.5	56.5	-	44.5	49.5	-	8	Rc1/8
50	-	48.5	58.5	-	40.5	50.5	-	10.5	10.5	-	Rc 1/4	-	-	58.5	68.5	-	50.5	60.5	10.5	Rc1/4

Bore size (mm)	C	D	E	H	I	J	K	L	M	N	O	S	U	Z
32	13	16	45	M8×1.25	60	4.5	14	7	34	5.5	9 depth 7	58.5	31.5	14
40	13	16	52	M8×1.25	69	5	14	7	40	5.5	9 depth 7	66	35	14
50	15	20	64	M10×1.5	86	7	17	8	50	6.6	11 depth 8	80	41	19

Note): External dimensions with rubber bumper are same as standard type as shown above.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA 1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

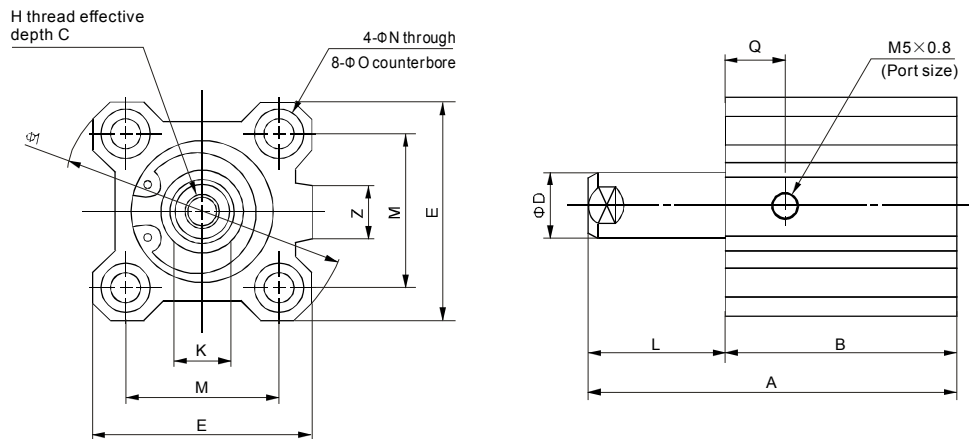
Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

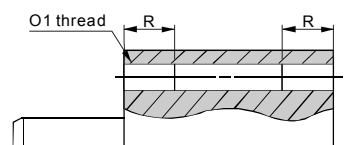
Series CQ2, CDQ2

CQ2B□-□T ϕ 12 to 25

Spring extend style (Through-hole), without magnet

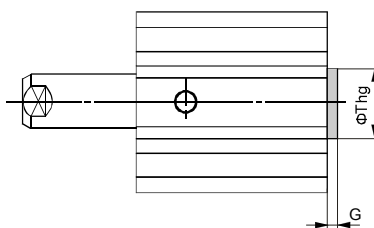


Both Ends Tapped Style



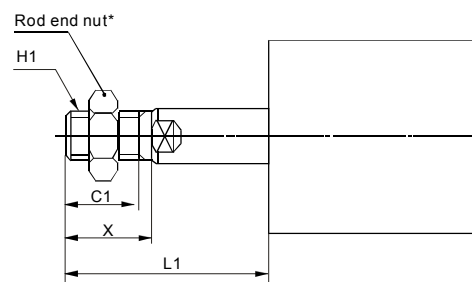
Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side



Bore size (mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread



Bore size (mm)	C1	X	H1	L1	
				5 st	10 st
12	9	10.5	M5×0.8	19	24
16	10	12	M6×1.0	20.5	25.5
20	12	14	M8×1.25	23.5	28.5
25	15	17.5	M10×1.25	27.5	32.5

Bore size (mm)	A		B		C	D	E	H	I	K	L		M	N	O	Q	Z
	5 st	10 st	5 st	10 st							5 st	10 st					
12	30.5	40.5	22	27	6	6	25	M3×0.5	32	5	8.5	13.5	15.5	3.5	6.5 depth 3.5	7.5	—
16	32	42	23.5	28.5	8	8	29	M4×0.7	38	6	8.5	13.5	20	3.5	6.5 depth 3.5	8	10
20	34	44	24.5	29.5	7	10	36	M5×0.8	47	8	9.5	14.5	25.5	5.5	9 depth 7	9	10
25	37.5	47.5	27.5	32.5	12	12	40	M6×1.0	52	10	10	15	28	5.5	9 depth 7	11	10

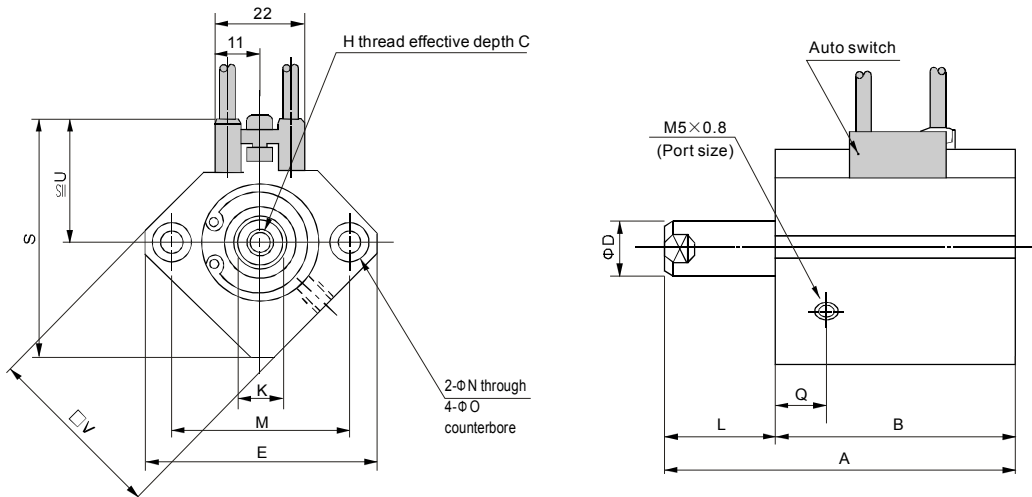
Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

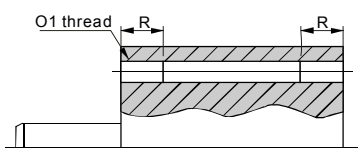
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

CDQ2B□-□T φ 12 to 25
 Spring extend style (Through-hole), built-in magnet

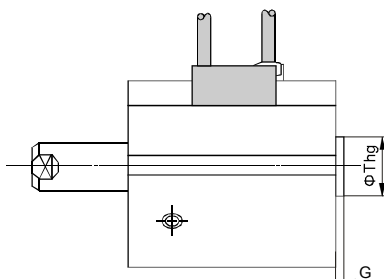


Both Ends Tapped Style



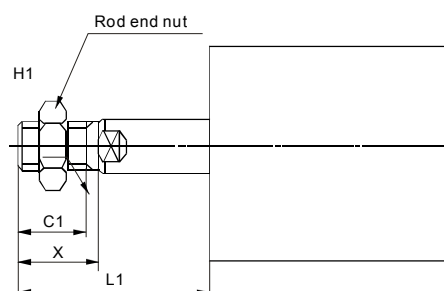
Bore size (mm)	O1	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10

With boss in head side



Bore size (mm)	G	Th9
12	1.5	15 ⁰ _{-0.043}
16	1.5	20 ⁰ _{-0.052}
20	2	13 ⁰ _{-0.043}
25	2	15 ⁰ _{-0.043}

Rod end male thread



Bore size (mm)	C1	X	H1	L1	
				5 st	10 st
12	9	10.5	M5×0.8	19	24
16	10	12	M6×1.0	20.5	25.5
20	12	14	M8×1.25	23.5	28.5
25	15	17.5	M10×1.25	27.5	32.5

Bore size (mm)	A		B		C	D	E	H	K	L		M	N	O	Q	S	U	V
	5 st	10 st	5 st	10 st						5 st	10 st							
12	45.9	55.9	37.4	42.4	6	6	32	M3×0.5	5	8.5	13.5	22	3.5	6.5 depth 3.5	11	35.5	19.5	25
16	44	54	35.5	40.5	8	8	38	M4×0.7	6	8.5	13.5	28	3.5	6.5 depth 3.5	10	41.5	22.5	29
20	46	56	36.5	41.5	7	10	47	M5×0.8	8	9.5	14.5	36	5.5	9 depth 7	10.5	48	24.5	30
25	47.5	57.5	37.5	42.5	12	12	52	M6×1.0	10	10	15	40	5.5	9 depth 7	11	53.5	27.5	40

Note): External dimensions with rubber bumper are same as standard type as shown above.

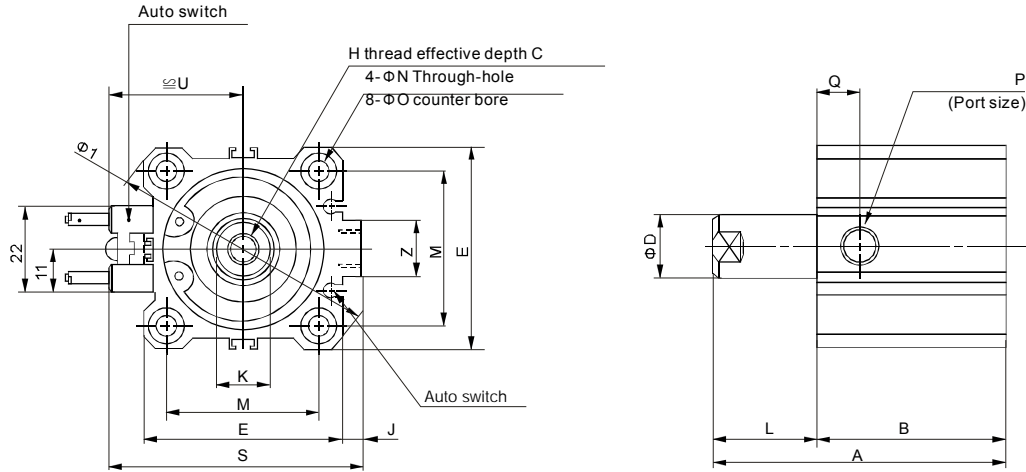
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2**
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Compact Cylinder

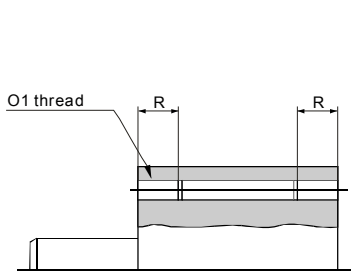
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQ2, CDQ2

C(D)Q2B□-□T $\phi 32$ to 50
Spring extend style (Through-hole)

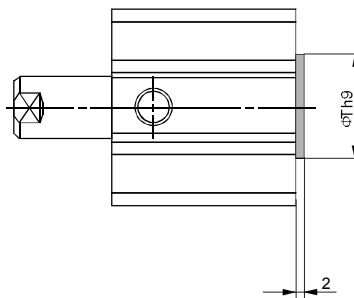


Both Ends Tapped Style



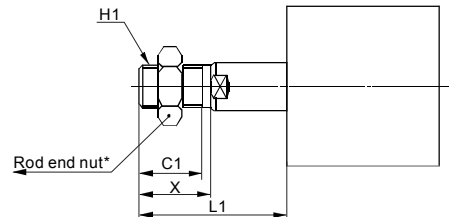
Bore size (mm)	O1	R
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14

With boss in head side



Bore size (mm)	Th9
32	21 ⁰ _{-0.052}
40	28 ⁰ _{-0.052}
50	35 ⁰ _{-0.062}

Rod end male thread



Bore size (mm)	C1	X	H1	L1		
				5 st	10 st	20 st
32	20.5	23.5	M14×1.5	33.5	38.5	—
40	20.5	23.5	M14×1.5	33.5	38.5	—
50	26	28.5	M18×1.5	—	43.5	53.5

Bore size (mm)	Without magnet												Built-in magnet							
	A			B			P			Q			A			B			P	Q
	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st	5 st	10 st	20 st		
32	40	50	—	28	33	—	M5x0.8	Rc 1/8	—	11.5	10.5	—	50	60	—	38	43	—	Rc 1/8	10.5
40	46.5	56.5	—	34.5	39.5	—	Rc 1/8	—	11	11	—	56.5	66.5	—	44.5	49.5	—	Rc 1/8	11	
50	—	68.5	78.5	—	40.5	50.5	—	Rc 1/4	—	10.5	10.5	—	68.5	88.5	—	50.5	60.5	—	Rc 1/4	10.5

Bore size (mm)	C	D	E	H	I	J	K	L			M	N	O	S	U	Z
								5 st	10 st	20 st						
32	13	16	45	M8×1.25	60	4.5	14	12	17	—	34	5.5	9 depth 7	58.5	31.5	14
40	13	16	52	M8×1.25	69	5	14	12	17	—	40	5.5	9 depth 7	66	35	14
50	15	20	64	M10×1.5	86	7	17	—	18	28	50	6.6	11 depth 8	80	41	19

Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

Series CQS

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

◆ How to Order

C D QS B 20 - 10 D -

Body option

Double acting			
Standard stroke		Long stroke	
Nil	Standard chshion	C	With rubber bumper rod end female thread(standard)
C	With rubber bumper		M
M	Rod end male thread		
Single acting			
Nil	Standard(rod end female thread)	M	Rod end male thread

Action

D	Double acting
S	Single acting, spring return
T	Single acting, spring extend

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

12	16	20	25
----	----	----	----

Mounting style

B	Through-hole / both ends tapped common(standard)
L	Foot style
F	Rod side flange style
G	Head side flange style
D	Double clevis style

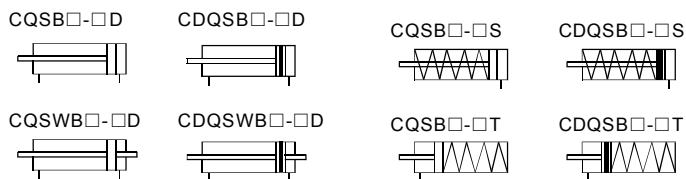
Piston rod

Nil	Single rod	W	Double rod
-----	------------	---	------------

Magnet

Nil	Without magnet	D	Built-in magnet
-----	----------------	---	-----------------

Symbol



◆ Specifications

Bore size (mm)		12	16	20	25
Action	C(D)QS(W)B□-□D	Double acting, single rod / double rod			
	C(D)QSB□-□S/T	Single acting, spring return / extend			
Fluid		Filtered compressed air			
Proof pressure		1.5 MPa			
Operating pressure range	C(D)QS(W)B□-□D	0.07 ~1.0MPa		0.05~1.0 MPa	
	C(D)QSB□-□S/T	0.25~1.0 MPa		0.18 ~1.0MPa	
Ambient and fluid temperature		-10~70°C (No freezing)			
Port size		M5×0.8			
Piston rod thread	Female thread	M3×0.5	M4×0.7	M5×0.8	M6×1.0
	Male thread	M5×0.8	M6×1.0	M8×1.25	M10×1.25
Cushion		Without cushion / rubber bumper			

Note): Please contact with ANSSION for the mounting accessories.

- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Compact Cylinder

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQS

Cylinder stroke

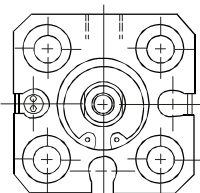
Bore size (mm)	Double acting		Single acting
	Standard stroke (mm)	Long stroke (mm)	Standard stroke(mm)
12,16	5, 10,15,20,25,30	35,40,45,50,75,100	5, 10
20	5, 10, 15, 20, 25, 30,	75, 100, 125, 150, 175, 200	
25	35, 40, 45, 50	75, 100, 125, 150, 175, 200, 250, 300	

◆ Dimensions

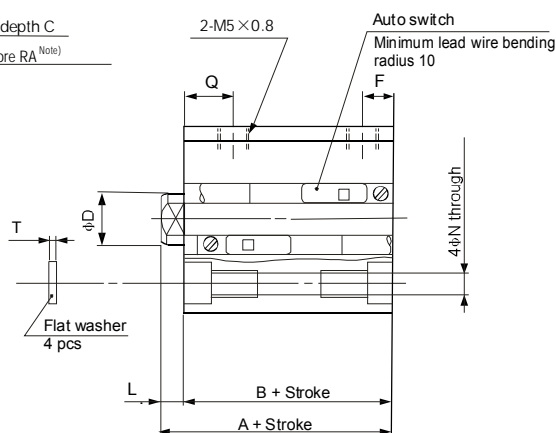
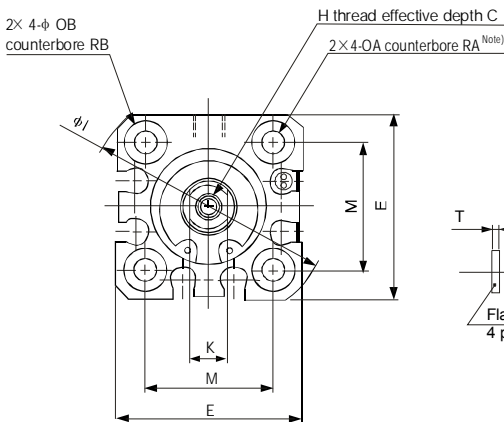
C(D)QSB □-□D

Basic type(through-hole/both ends tapped common)

Φ12

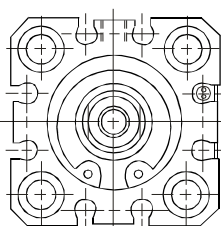


Φ16

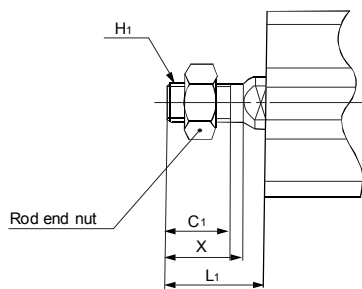


Note 1) For the following bore/stroke sizes through-hole is threaded over the entire length: Basic style Φ12 and Φ16; 5 stroke, Φ20; 5 to 15 stroke, Φ25; 5 to 10 stroke, Φ20 with auto switch built-in magnet; 5 stroke.

Φ20,25



Rod end male thread



Bore size (mm)	Standard stroke	Long stroke	C ₁	H ₁	X
	L ₁	L ₁			
12	14	24	9	M5×0.8	10.5
16	15.5	25.5	10	M6×1.0	12
20	18.5	28.5	12	M8×1.25	14
25	22.5	32.5	15	M10×1.25	17.5

Bore size (mm)	Standard stroke range (mm)	Standard stroke								Long stroke range (mm)	Long stroke				C	D	E	H	I	K	M	N	OA	OB	Q	RA	RB	T
		Without magnet				Built-in magnet					Without/built-in magnet																	
		A	B	F	L	A	B	F	L		A	B	F	L														
12	5 to 30	20.5	17	5	3.5	25.5	22	5	3.5	35 to 100	45.5	32	7.5	13.5	6	6	25	M3×0.5	32	5	15.5	3.5	M4×0.7	6.5	7.5	7	4	0.5
16	5 to 30	20.5	17	5	3.5	25.5	22	5	3.5	35 to 100	45.5	32	7.5	13.5	8	8	29	M4×0.7	38	6	20	3.5	M4×0.7	6.5	7.5	7	4	0.5
20	5 to 50	24	19.5	5.5	4.5	34	29.5	5.5	4.5	75 to 200	55.5	41	9	14.5	7	10	36	M5×0.8	47	8	25.5	5.4	M6×1.0	9	9	10	7	1
25	5 to 50	27.5	22.5	5.5	5	37.5	32.5	5.5	5	75 to 300	59	44	11	15	12	12	40	M6×1.0	52	10	28	5.4	M6×1.0	9	9	10	7	1

Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

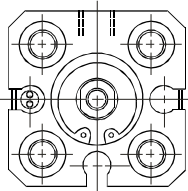
Series CQS

Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

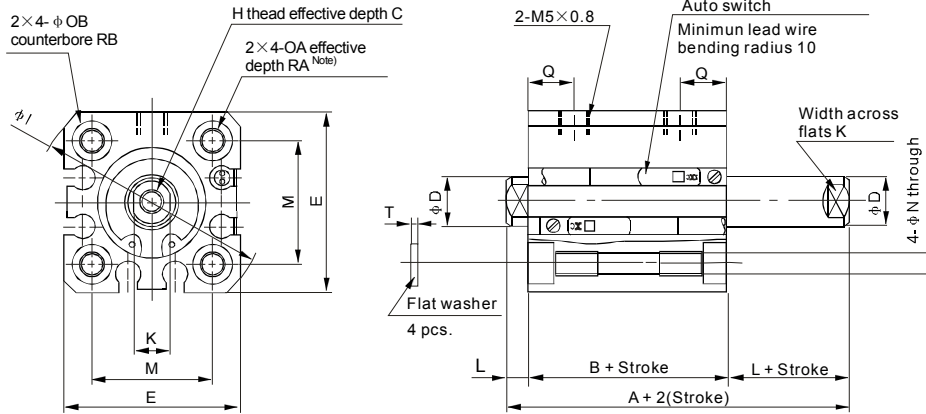
C(D)QSWB□-□D

Double rod style (Through-hole/Both ends tapped common)

Φ 12

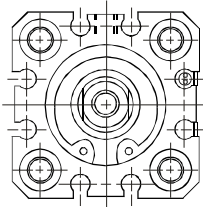


Φ 16

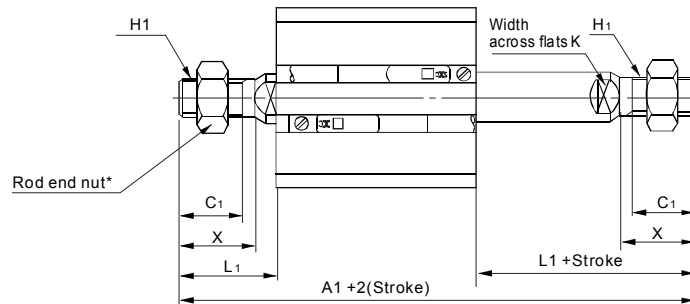


Note 1): For basic style Φ 20 and Φ 25 with 5 stroke, through-hole is threaded over the entire length..

Φ 20,25



Rod end male thread



Bore size (mm)	Without magnet		Built-in magnet		C1	H1	L1	X
	A1	B1	A1	B1				
12	50		55		9	M5×0.8	14	10.5
16	53		58		10	M6×1.0	15.5	15
20	63		73		12	M8×1.25	18.5	14
25	74		84		15	M10×1.25	22.5	17.5

Bore size (mm)	Stroke range (mm)	Without magnet		Built-in magnet		C	D	E	H	I	K	L	M	N	OA	OB	Q	RA	RB	T
		A	B	A	B															
12	5 to 30	29	22	34	27	6	6	25	M×0.5	32	5	3.5	15.5	3.5	M4×0.7	6.5	7.5	7	4	0.5
16	5 to 30	29	22	34	27	8	8	29	M4×0.7	38	6	3.5	20	3.5	M4×0.7	6.5	7.5	7	4	0.5
20	5 to 50	35	26	45	36	7	10	36	M5×0.8	47	8	4.5	25.5	5.4	M6×1.0	9	9	10	7	1
25	5 to 50	39	29	49	39	12	12	40	M6×1.0	52	10	5	28	5.4	M6×1.0	9	11	10	7	1

Note): External dimensions with rubber bumper are same as standard type as shown above.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

D

AC,AD

HR

RB

RBQ

Compact Cylinder

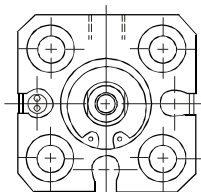
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQS

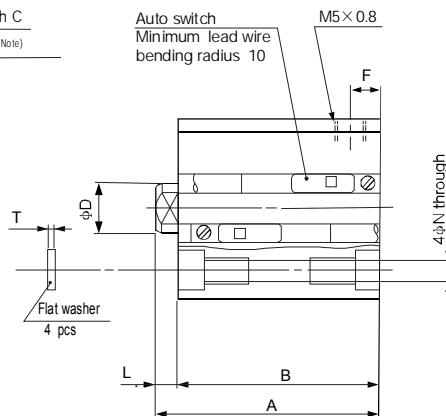
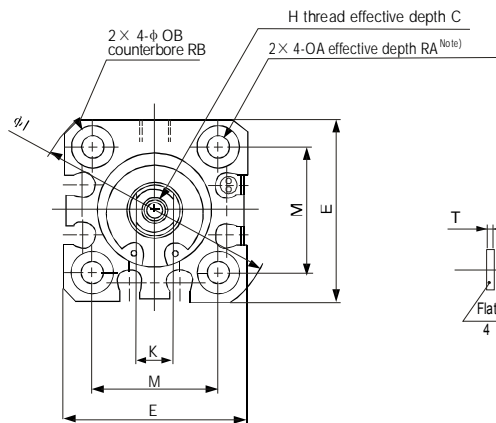
C(D)QSB □-□S

Spring return style(through-hole / Both ends tapped common)

Φ 12

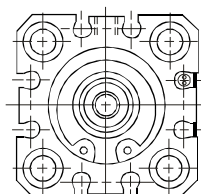


Φ 16

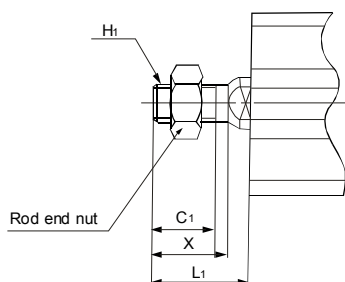


Note): For basic style Φ 12 and Φ 16 with 5 stroke, through-hole is threaded over the entire length.
For basic style Φ 20, Φ 25 with 5 stroke, through-hole is threaded over the entire length.
With auto switch (built-in magnet) / Φ 20; 5 stroke.

Φ 20,25



Rod end male thread



Bore size(mm)	C ₁	H ₁	L ₁	X
12	9	M5×0.8	14	10.5
16	10	M6×1.0	15.5	12
20	12	M8×1.25	18.5	14
25	15	M10×1.25	22.5	17.5

Bore size (mm)	Standard range (mm)	Without magnet				Built-in magnet				C	D	E	F	H	I	K	L	M	N	OA	OB	RA	RB	T
		A		B		A		B																
		5 ST	10 ST	5 ST	10 ST	5 ST	10 ST	5 ST	10 ST															
12	5,10	25.5	30.5	22	27	30.5	35.5	27	32	6	6	25	5	M3×0.5	32	5	3.5	15.5	3.5	M4×0.7	6.5	7	4	0.5
16	5,10	25.5	30.5	22	27	30.5	35.5	27	32	8	8	29	5	M4×0.7	38	6	3.5	20	3.5	M4×0.7	6.5	7	4	0.5
20	5,10	29	34	24.5	29.5	39	44	34.5	39.5	7	10	36	5.5	M5×0.8	47	8	4.5	25.5	5.4	M6×1.0	9	10	7	1
25	5,10	32.5	37.5	27.5	32.5	42.5	47.5	37.5	42.5	12	12	40	5.5	M6×1.0	52	10	5	28	5.4	M6×1.0	9	10	7	1

Note): External dimensions with rubber bumper are same as standard type as shown above.

Compact Cylinder

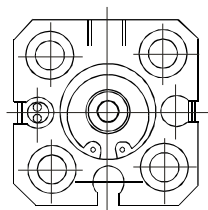
Double Acting, Single Rod/Double Rod; Single Acting, Spring Return/Extend

Series CQS

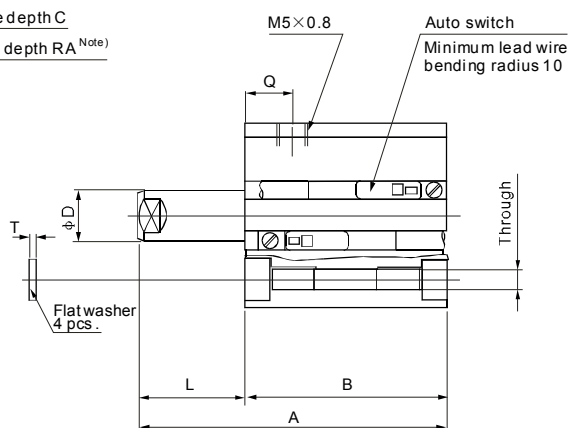
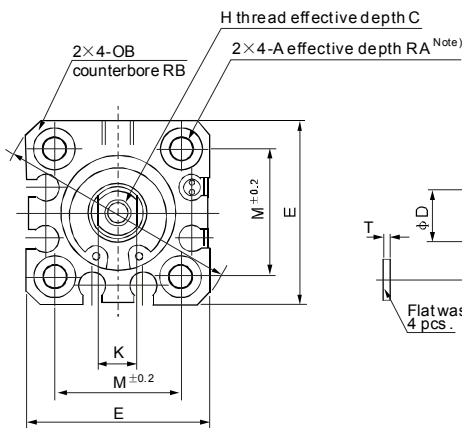
C(D)QSB □-□T

Spring extend style (through-hole/both ends tapped common)

Φ12

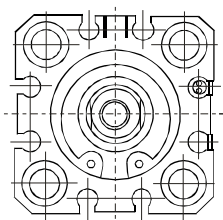


Φ16

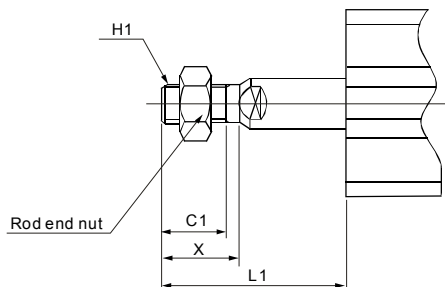


Note): For basic style Φ12 and Φ16 with 5 stroke, through-hole is threaded over the entire length.
For basic style Φ20, Φ25 with 5 stroke, through-hole is threaded over the entire length.
With auto switch (built-in magnet) / Φ20; 5 stroke.

Φ20,25



Rod end male thread



Bore size (mm)	C ₁	H ₁	L ₁		X
			5 ST	10 ST	
12	9	M5×0.8	19	24	10.5
16	10	M6×1.0	20.5	25.5	12
20	12	M8×1.25	23.5	28.5	14
25	15	M10×1.25	27.5	32.5	17.5

Bore size (mm)	Standard range (mm)	Without magnet				Built-in magnet				C	D	E	H	I	K	L		M	N	OA	OB	Q	RA	RB	T
		A		B		A		B								5 ST	10 ST								
		5 ST	10 ST	5 ST	10 ST	5 ST	10 ST	5 ST	10 ST																
12	5,10	30.5	40.5	22	27	35.5	45.5	27	32	6	6	25	M3×0.5	32	5	8.5	13.5	15.5	3.5	M4×0.7	6.5	7.5	7	4	0.5
16	5,10	30.5	40.5	22	27	35.5	45.5	27	32	8	8	29	M4×0.7	38	6	8.5	13.5	20	3.5	M4×0.7	6.5	7.5	7	4	0.5
20	5,10	34	44	24.5	29.5	44	54	34.5	39.5	7	10	36	M5×0.8	47	8	9.5	14.5	25.5	5.4	M6×1.0	9	9	10	7	1
25	5,10	37.5	47.5	27.5	32.5	47.5	57.5	37.5	42.5	12	12	40	M6×1.0	52	10	10	15	28	5.4	M6×1.0	9	11	10	7	1

Note): External dimensions with rubber bumper are same as standard type as shown above.

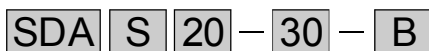
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS**
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Compact Cylinder

Double Acting, Single Rod ; Single Acting, Spring Return / Extend

Series SDA, SSA, STA

◆ How to Order



Rod end thread

Nil	Female thread	B	Male thread	N	No thread
-----	---------------	----------	-------------	----------	-----------

* The length of no thread's rod is the same as the rod as with female thread.

Cylinder stroke

* Refer to "Standard stroke" .

Bore size (mm)

SDA Series									
12	16	20	25	32	40	50	63	80	100
SSA, STA Series									
12	16	20	25	32	40				

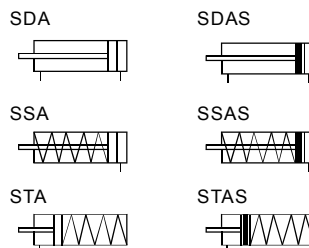
Magnet

Nil	Without magnet	S	Built-in magnet
-----	----------------	----------	-----------------

Model

SDA	Double-acting	SSA	Single acting, spring return
STA	Single acting, spring extend		

Symbol



◆ Specifications

Bore size (mm)		12	16	20	25	32	40	50	63	80	100
Action	SDA	Double acting, single rod / double rod									
	SSA / STA	Single acting, spring return / extend								-	
Fluid		Filtered compressed air									
Proof pressure		1.5 MPa									
Operating pressure range	SDA	0.1~0.9 MPa									
	SSA / STA	0.2~0.9 MPa								-	
Ambient and fluid temperature		-10~70°C (No freezing)									
Port size		M5×0.8				Rc1/8		Rc1/4		Rc3/8	
Piston rod thread	Female thread	M3×0.5	M4×0.7	M5×0.8	M6×1.0	M8×1.25	M10×1.5	M14×1.5	M18×1.5	M26×1.5	
	Male thread	M5×0.8	M6×1.0	M8×1.25	M10×1.25	M14×1.5	M18×1.5	M22×1.5	M26×1.5		
Cushion		Rubber bumper									

Note): Please contact with ANSSION for the mounting accessories.

Bore size (mm)	Standard stroke (mm)	
	Double acting, single / double rod	Single acting, spring return / extend
12, 16	5~60	5~30 Only for φ 12,16,20,25,32,40
20	5~85	
25	5~110	
32 to 100	5~130	

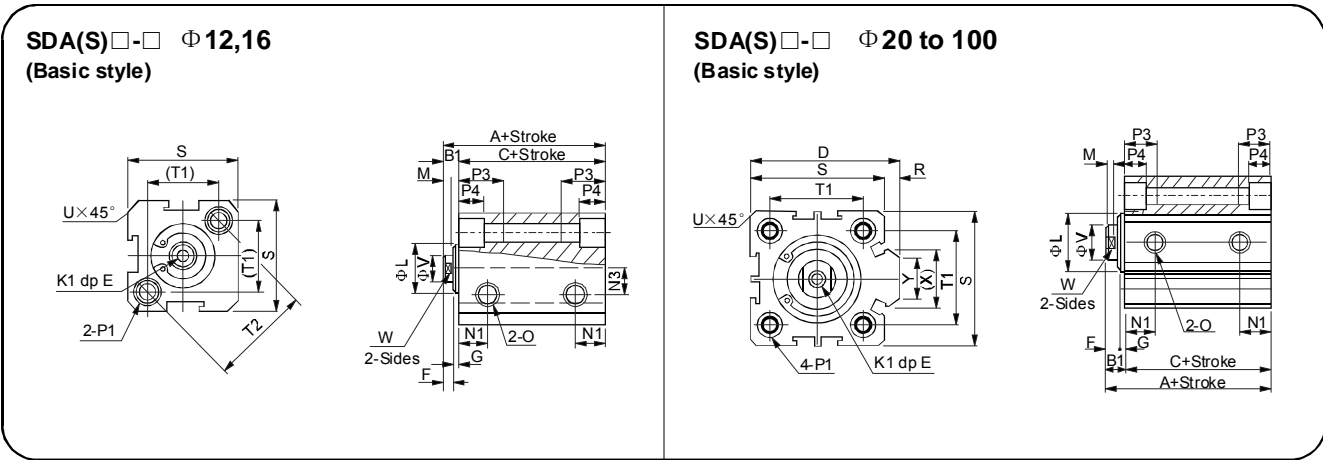
* When stroke exceeds the standard range, Please contact with ANSSION.

Compact Cylinder

Double Acting, Single Rod ; Single Acting, Spring Return / Extend

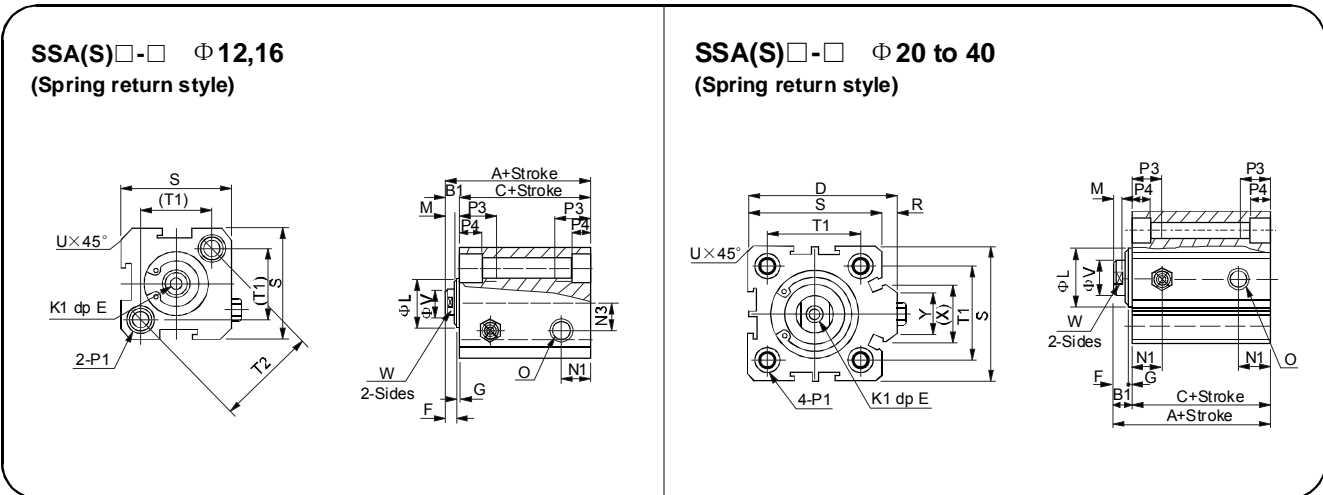
Series SDA, SSA, STA

◆ Dimensions



Bore size(mm)	Without magnet			Built-in magnet			D	E		F	G	K1	L	M	N1	N3
	A	B1	C	A	B1	C		ST≤10	ST>10							
12	22	5	17	32	5	27	-	6	4	1	M3×0.5	10.2	2.8	6.3	6	
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3×0.5	11	2.8	7.3	6.5	
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	M6×1.0	22	2.8	9	-	
40	33	7	26	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	6	5	M14×1.5	45	4	14.5	-	
100	63	12	51	73	12	61	124	18	7	5	M18×1.5	55	4	20.5	-	

Bore size(mm)	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	Rc1/8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	Rc1/8	Both sides: Φ10 Thread: M8×1.25 Thru.hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	Rc1/4	Both sides: Φ11 Thread: M8×1.25 Thru.hole: Φ6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	Rc1/4	Both sides: Φ11 Thread: M8×1.25 Thru.hole: Φ6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	Rc3/8	Both sides: Φ14 Thread: M12×1.75 Thru.hole: Φ9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	Rc3/8	Both sides: Φ17.5 Thread: M14×2 Thru.hole: Φ11.3	30	13	10	114	90	-	3.65	32	27	35	26



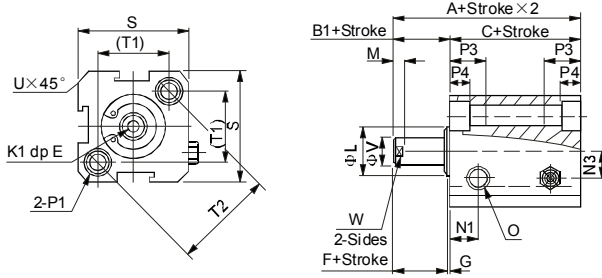
I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Compact Cylinder

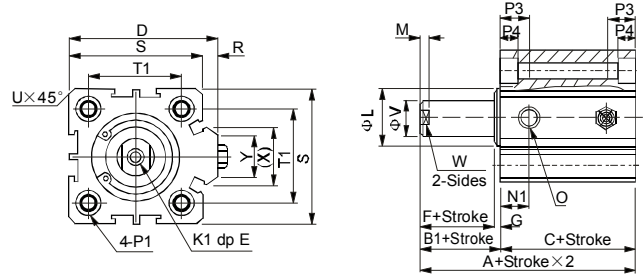
Double Acting, Single Rod ; Single Acting, Spring Return / Extend

Series SDA, SSA, STA

STA(S) □-□ Φ 12,16
(Spring extend)



STA(S) □-□ Φ 20 to 40
(Spring extend)



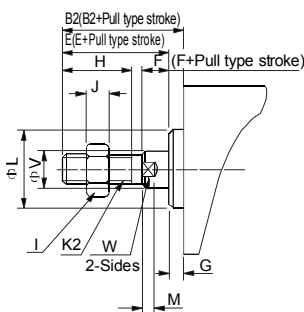
SSA(S) □-□ / STA(S) □-□

Bore size(mm)	Without magnet			Built-in magnet			D	E	F	G	K1	L	M	N1	N3				
	A		B1	C		A										B1	C		
	ST≤10	ST>10		ST≤10	ST>10	ST≤10											ST>10	ST≤10	ST>10
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3×0.5	10.2	2.8	6.3	6
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	6.5
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	15	2.8	7.5	-
25	37	47	6	31	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	54.5	50	12	4	3	M6×1.0	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	-

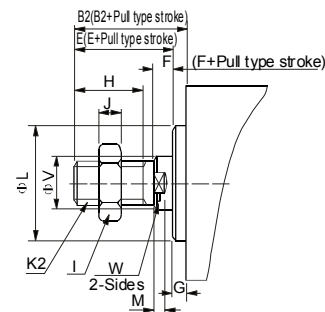
Bore size	O	P1	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	M5×0.8	Both sides: Φ6.5 Thread: M5×0.8 Thru.hole: Φ4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	M5×0.8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	Rc1/8	Both sides: Φ8.2 Thread: M6×1.0 Thru.hole: Φ4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	Rc1/8	Both sides: Φ10 Thread: M8×1.25 Thru.hole: Φ6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

* Max.stroke up to 30mm, For longer stroke, Please contact with ansion.

Male thread Φ 12 to 16



Male thread Φ 20 to 100



Bore size(mm)	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	15	2.8	8	6
25	23	21	4	2	15	12	6	M8×1.25	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	M26×1.8	55	4	32	27

Free Mount Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CU

◆ How to Order

C **D** U **10** **15** **D**

Action

D	Double acting
S	Single acting, spring return
T	Single acting, spring extend

Cylinder stroke

* Refer to "Standard stroke" .

Port thread type

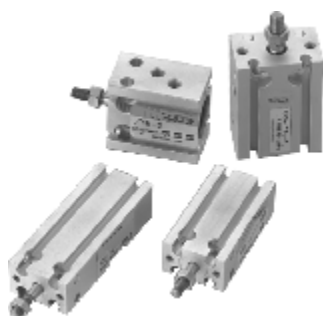
Symbol	Type	Bore size
Nil	M5×0.8	Φ6, Φ10, Φ16, Φ20, Φ25
	Rc1/8	Φ32
TN	NPT1/8	Φ32
TF	G1/8	Φ32

Bore size (mm)

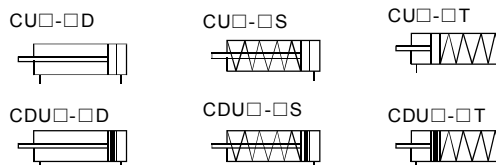
6	10	16	20	25	32
---	----	----	----	----	----

Magnet

Nil	Without magnet	D	Built-in magnet
------------	----------------	----------	-----------------



Symbol



◆ Specifications

Bore size (mm)		6	10	16	20	25	32
Action	C(D)U□-□D	Double acting, single rod					
	C(D)U□-□S/T	Single acting, spring return / extend					
Fluid		Filtered compressed air					
Proof pressure		1.05 MPa					
Operating pressure range	C(D)U□-□D	0.12~0.7MPa	0.06~0.7 MPa		0.05~0.7 MPa		
	C(D)U□-□S/T	0.2~0.7 MPa	0.15~0.7 MPa		0.13~0.7MPa		
Ambient and fluid temperature		-10~70°C (No freezing)					
Port size(RC,G,NPT)		M5×0.8					1/8
Piston rod thread (male thread)		M3×0.5	M4×0.7	M5×0.8	M6×1.0	M8×1.25	M10×1.25
Cushion		Rubber bumper					

◆ Standard Stroke

Bore size (mm)	Standard stroke (mm)	
	Double acting, single rod	Single acting, spring return / extend
6,10,16	5, 10, 15, 20, 25, 30	5, 10, 15
20,25,32	5, 10, 15, 20, 25, 30, 40, 50	

I

CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

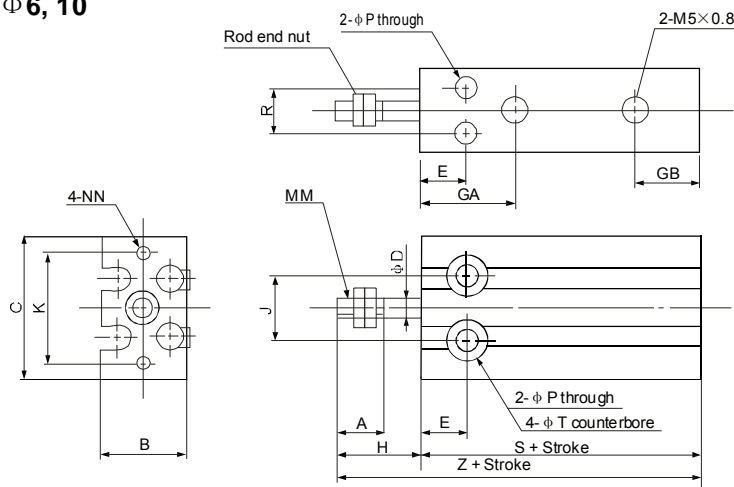
Free Mount Cylinder

Double Acting, Single Rod; Single Acting, Spring Return / Extend

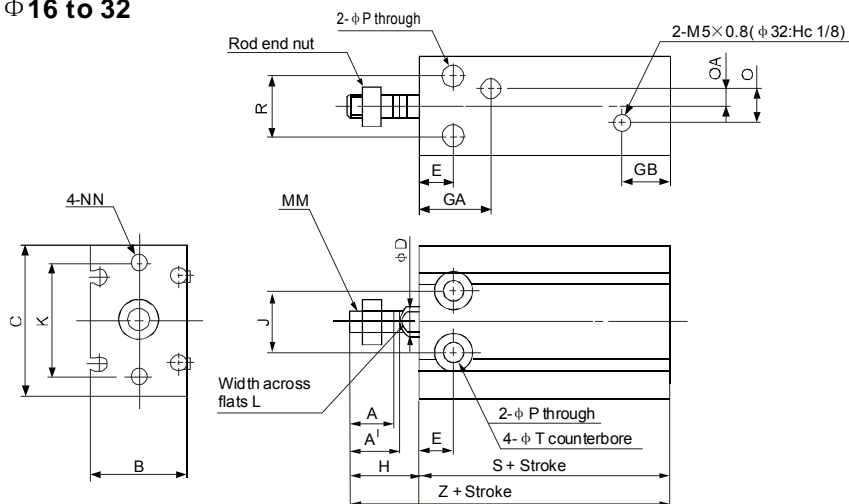
Series CU

◆ Dimensions

C(D)U□-□D Φ 6, 10
(Basic style)



C(D)U□-□□ Φ 16 to 32
(Basic style)



Bore size(mm)	A	A'	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^(Note)	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25

Note): 5 stroke (CU16-5D): 14.5 mm

Bore size(mm)	NN	P	Q	QA	R	T	Without magnet		Built-in magnet	
							S	Z	S	Z
6	M3×0.5 depth 5	3.2	-	-	7	6 depth 4.8	33	46	33	46
10	M3×0.5 depth 5	3.2	-	-	9	6 depth 5	36	52	36	52
16	M4×0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	30	46	40	56
20	M5×0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	36	55	46	65
25	M5×0.8 depth 8	5.5	9	4.5	20	9.3 depth 9	40	63	50	73
32	M6×1.0 depth 9	6.6	13.5	4.5	24	11 depth 11.5	42	69	52	79

Free Mount Cylinder

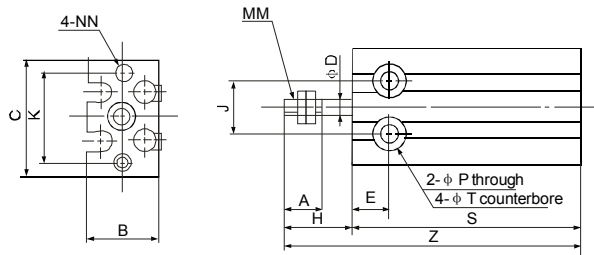
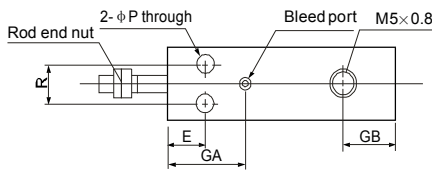
Double Acting, Single Rod; Single Acting, Spring Return / Extend

Series CU

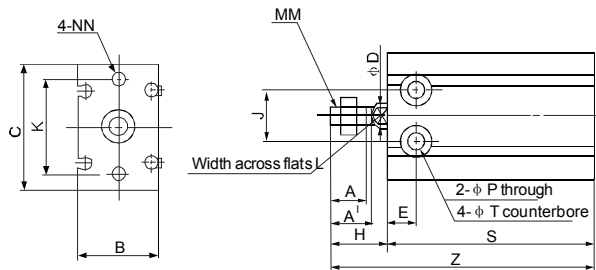
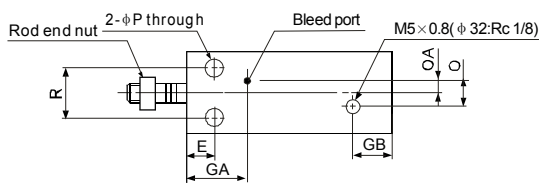
I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU**
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

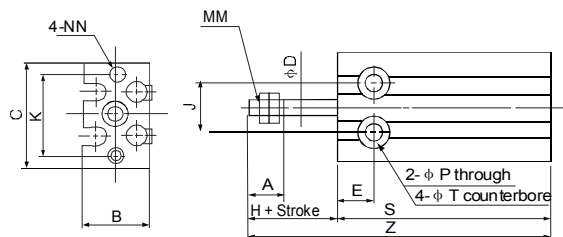
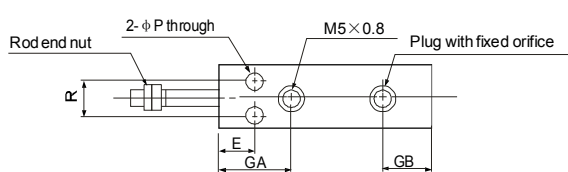
C(D)U□-□S Φ 6, 10
(Spring returnd style)



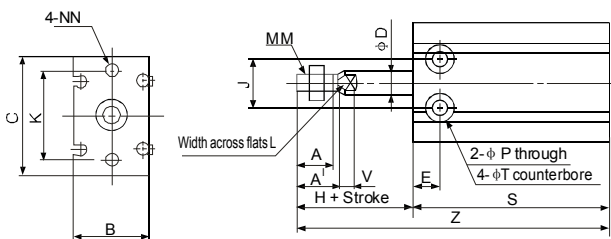
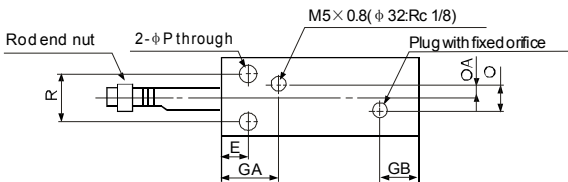
C(D)U□-□S Φ 16 to 32
(Spring returnd style)



C(D)U□-□S Φ 6, 10
(Spring extend style)



C(D)U□-□T Φ 16 to 32
(Spring extend style)



Bore size(mm)	A	A'	B	C	D	E	GA	GB	H	J	K	L	MM	NN	P
6	7	-	13	22	3	7	15	10	13	10	17	-	M3×0.5	M3×0.5 depth 5	3.2
10	10	-	15	24	4	7	16.5	10	16	11	18	-	M4×0.7	M3×0.5 depth 5	3.2
16	11	12.5	20	32	6	7	16.5	11.5	16	14	25	5	M5×0.8	M4×0.7 depth 6	4.5
20	12	14	26	40	8	9	19	12.5	19	16	30	6	M6×1.0	M5×0.8 depth 8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	20	38	8	M8×1.25	M5×0.8 depth 8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	24	48	10	M10×1.25	M6×1.0 depth 9	6.6

Bore size (mm)	Q	QA	R	T	V ^(Note)	Without magnet						Built-in magnet					
						S			Z			S			Z		
						5 ST	10 ST	15 ST	5 ST	10 ST	15 ST	5 ST	10 ST	15 ST	5 ST	10 ST	15 ST
6	-	-	7	6 depth 4.8	-	38	43	48	56(51)	66(56)	76(61)	38	43	48	56(51)	66(56)	76(61)
10	-	-	9	6 depth 5	-	41	46	56	62(57)	72(62)	87(72)	41	46	56	62(57)	72(62)	87(72)
16	4	2	12	7.6 depth 6.5	3.5	45	50	60	66(51)	76(56)	91(66)	45	50	60	66(61)	76(66)	91(76)
20	9	4.5	16	9.3 depth 8	5	41	46	56	65(60)	75(65)	90(75)	51	56	66	75(70)	85(75)	100(85)
25	9	4.5	20	9.3 depth 9	5	45	50	60	73(68)	83(73)	98(83)	55	60	70	83(78)	93(83)	108(93)
32	13.5	4.5	24	11 depth 11.5	5	47	52	62	79(74)	89(79)	104(89)	57	62	72	89(84)	99(89)	114(99)

Note: "V" Only for Single Acting, Spring Extend,()means the dimensions of single acting, spring return.

Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series DPZ, DPZJ

◆ How to Order

DPZ 10-40-P-A-□-S2

Piston rod

Nil	Single rod	S2	Double rod
-----	------------	----	------------

*DPZJ type is only S2.

Bearing Type

GF	Slide bearing
KF	Ball bush bearing

Magnet

A	Built-in magnet
---	-----------------

Cushion

P	Rubber bumper
---	---------------

Stroke (mm)

10...200mm

Bore size(mm)

10	16	20	25	32
----	----	----	----	----

Model

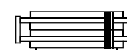
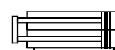
DPZ	Double acting, single rod
DPZJ	Double acting, double rod



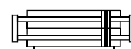
Symbol

DPZ□-□-P-A

DPZ□-□-P-A-S2



DPZJ□-□-P-A-S2



◆ Specifications

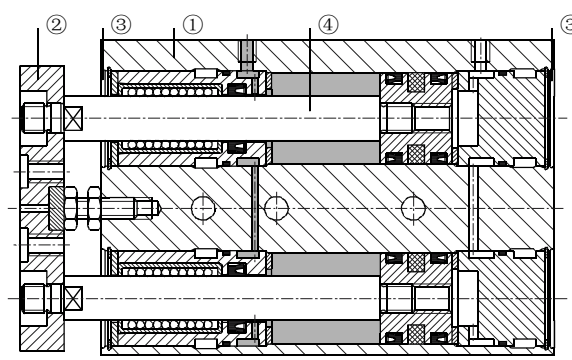
Bore size (mm)	10	16	20	25	32
Action	Double acting, single rod / double rod				
Fluid	Filtered compressed air				
Proof pressure	1.5MPa				
Operating pressure range	0.05~1.0MPa				
Ambient and fluid temperature	-20~80℃(No freezing)				
Port size	M5				G 1/8
Cushion	Rubber bumper				

Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series DPZ, DPZJ

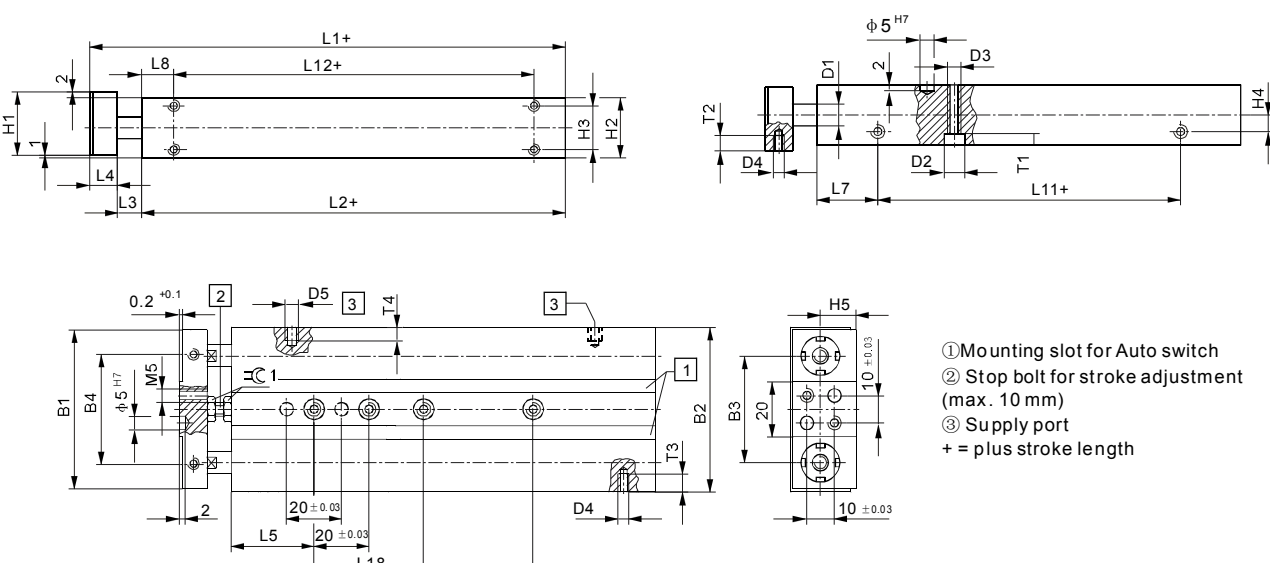
◆ Materials



Variant		Basic version
1 Housing		Wrought aluminium alloy
2 Yoke plate		Tempered steel
3 Plug cap		Wrought aluminium alloy
4 Piston rod	GF	High-alloy stainless steel
	KF	Tempered steel
-Seals		Polyurethane, nitrile rubber

◆ Dimensions

DPZ□-□-P-A φ 10, 16



① Mounting slot for Auto switch
 ② Stop bolt for stroke adjustment (max. 10 mm)
 ③ Supply port
 + = plus stroke length

φ (mm)	B1	B2	B3	B4	D1 φ	D2 φ	D3 φ	D4	D5	H1	H2	H3	H4	H5	L1		L2	
															GF	KF	GF	KF
10	48	50	33	28	6	7.5	M5	M4	M5	20	19	13	4.5	11.5	89.6	100	71.6	82
16	58	60	39	40	8	7.5	M5	M4	M5	13	22	16	6	13	93.63	107	74.6	88

φ (mm)	L3	L4	L5	L7		L8		L11		L12 ±0.2		T1	T2	T3	T4	⌀C1
				GF	KF	GF	KF	GF	KF	GF	KF					
10	8	10	30	23.4	40.7	13.1	30.8	24.8	24.4	45.4	44.2	4.4	6	5	5	7
16	9	10	30	22	38.9	11.6	25.5	30.6	30.6	51.4	54.4	4.4	5.5	6.5	5	8

φ (mm)	φ L18 ±0.03	L19 ±0.03
10	-	-
25	-	-
40	-	-
50	40	-
80	40	80
100	40	80

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

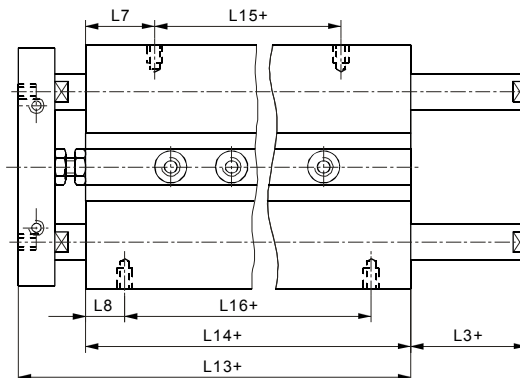
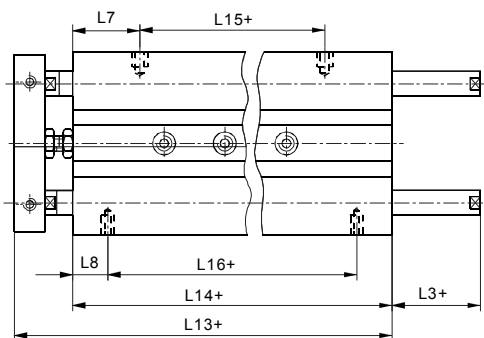
Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series DPZ, DPZJ

DPZ□-□-P-A-S2 φ 10, 16mm

φ 20, 25, 32mm

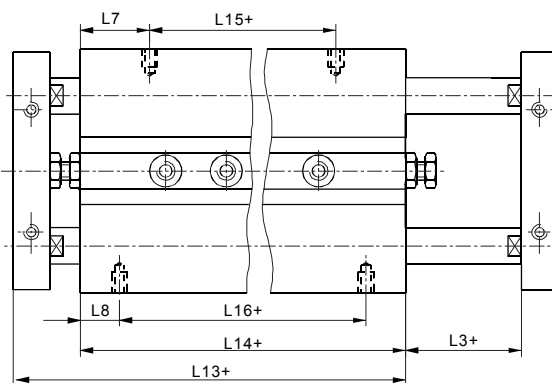
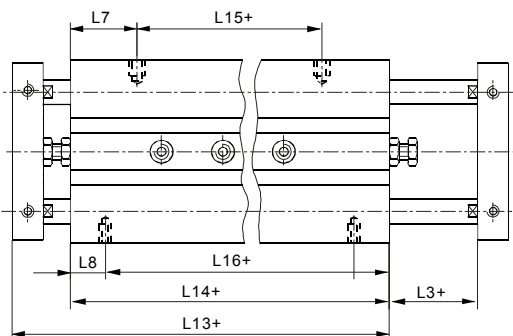


+ = plus stroke length

φ [mm]	L3	L7		L8		L13		L14		L15		L16±0.2	
		GF	KF	GF	KF	GF	KF	GF	KF	GF	KF	GF	KF
10	8	23.4	40.7	13.1	30.8	89.6	124	71.6	106	24.8	24.7	45.4	44.4
16	9	22	38.9	11.6	25.5	93.6	127.4	74.6	108.4	30.6	30.6	51.4	57.4
20	10	22.8	43.4	12.9	33.5	98.6	139.2	76.6	117.2	31	30.4	50.8	50.2
25	10	20.2	40	8.7	28.8	98.6	135	76.6	113	36.2	33	59.2	55.4
32	15	25	44.9	10	26	110.1	149.9	80.1	119.9	30.1	30.1	60.1	67.9

DPZJ□-□-P-A-S2 φ 10, 16mm

φ 20, 25, 32mm



+ = plus stroke length

φ [mm]	L3	L7		L8		L13		L14		L15		L16±0.2	
		GF	KF	GF	KF	GF	KF	GF	KF	GF	KF	GF	KF
10	8	23.4	40.7	13.1	30.8	89.6	124	71.6	106	24.8	24.7	45.4	44.4
16	9	22	38.9	11.6	25.5	93.6	127.4	74.6	108.4	30.6	30.6	51.4	57.4
20	10	22.8	43.4	12.9	33.5	98.6	139.2	76.6	117.2	31	30.4	50.8	50.2
25	10	20.2	40	8.7	28.8	98.6	135	76.6	113	36.2	33	59.2	55.4
32	15	25	44.9	10	26	110.1	149.9	80.1	119.9	30.1	30.1	60.1	67.9

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

RBQ

Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

◆ How to Order

CXS W M 20-100

Standard stroke

* Refer to "Standard stroke" .

Bore size (mm)

6	10	15	20	25	32
---	----	----	----	----	----

Bearing type

M	Slide bearing
L	Ball bushing bearing

Piston Rod

Nil	Single rod
W	Double rod

Model

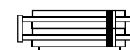
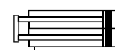
CXS	Twin rod cylinder, built-in magnet, double acting; single rod
CXSW	Twin rod cylinder, built-in magnet, double acting; double rod



Symbol

CXSM□-□

CXSWM□-□



◆ Specifications

Bore size (mm)		6	10	15	20	25	32
Action	CXSM□-□	Double acting, single rod					
	CXSWM□-□	Double acting, double rod					
Fluid		Filtered compressed air					
Proof pressure		1.05 MPa					
Operating pressure range	CXSM□-□	0.15~0.7 MPa	0.1~0.7 MPa			0.05 ~0.7MPa	
	CXSWM□-□	0.15~0.7 MPa				0.1 ~0.7MPa	
Ambient and fluid temperature		-10~60℃ (No freezing)					
Port size		M5×0.8				Rc1/8	
Cushion		Rubber bumper					
Stroke adjustable range	CXSM□-□	0 to -5mm compared to the standard stroke.					
	CXSWM□-□	0 to -10mm compared to the standard stroke. (extended end: 5mm, retracted end: 5mm)					
Bearing type		Slide bearing / ball bushing bearing (same dimensions for both)					

◆ Standard Stroke

Bore size(mm)	CXS(double acting, single rod)		CXSW(double acting, double rod)	
	Standard stroke(mm)	Manufacturable stroke range	Standard stroke(mm)	Manufacturable stroke range
6	10, 15, 20, 25, 30, 35, 40, 45, 50,	60 to 100	10, 20, 30, 40, 50	-
10	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75	80 to 150	10, 20, 30, 40, 50	75, 100, 125, 150
15		110 to 150		
20	10, 15, 20, 25, 30, 35, 40, 45, 50, 60,	110 to 200	10, 20, 30, 40, 50, 75, 100	125, 150, 175, 200
25	70, 75, 80, 90, 100			
32				

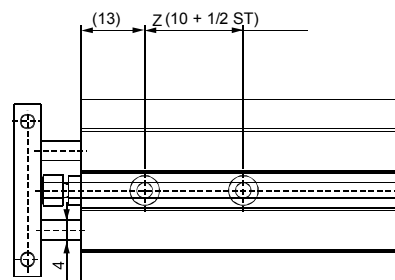
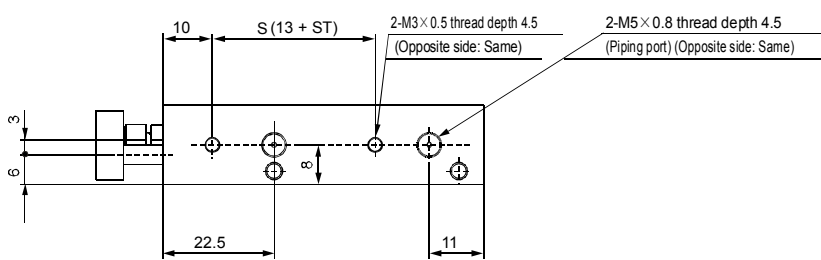
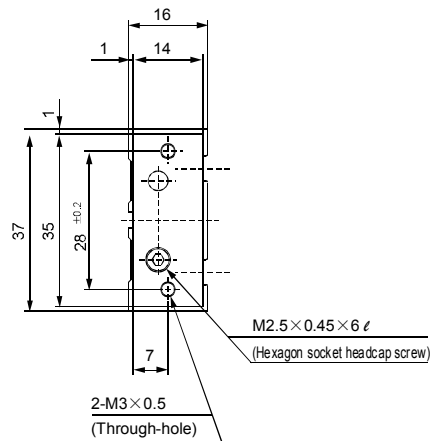
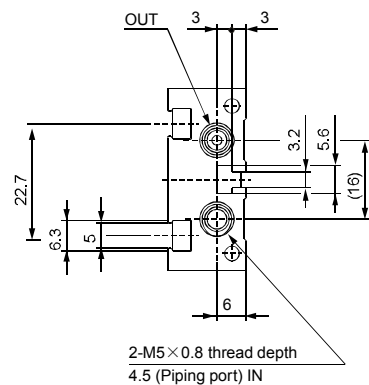
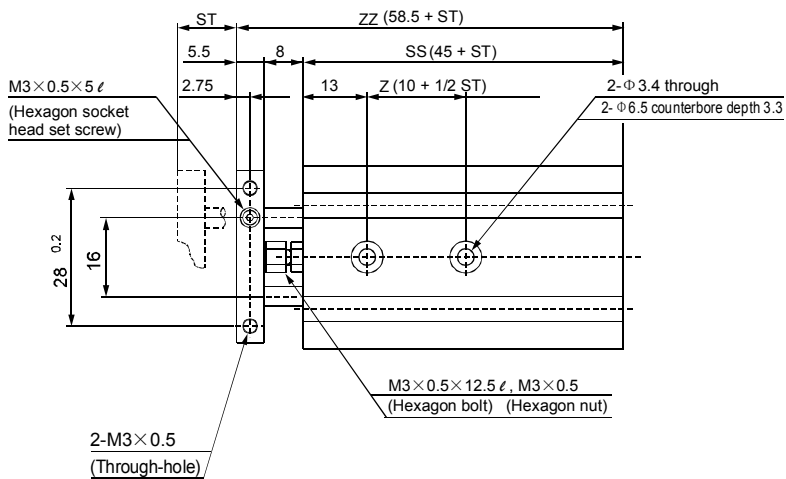
Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

◆ Dimensions

CXSM□-□ Φ6
CXSL□-□ Φ6



Note): Slide bearing (M) and ball bushing bearing (L) are same dimensions.

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

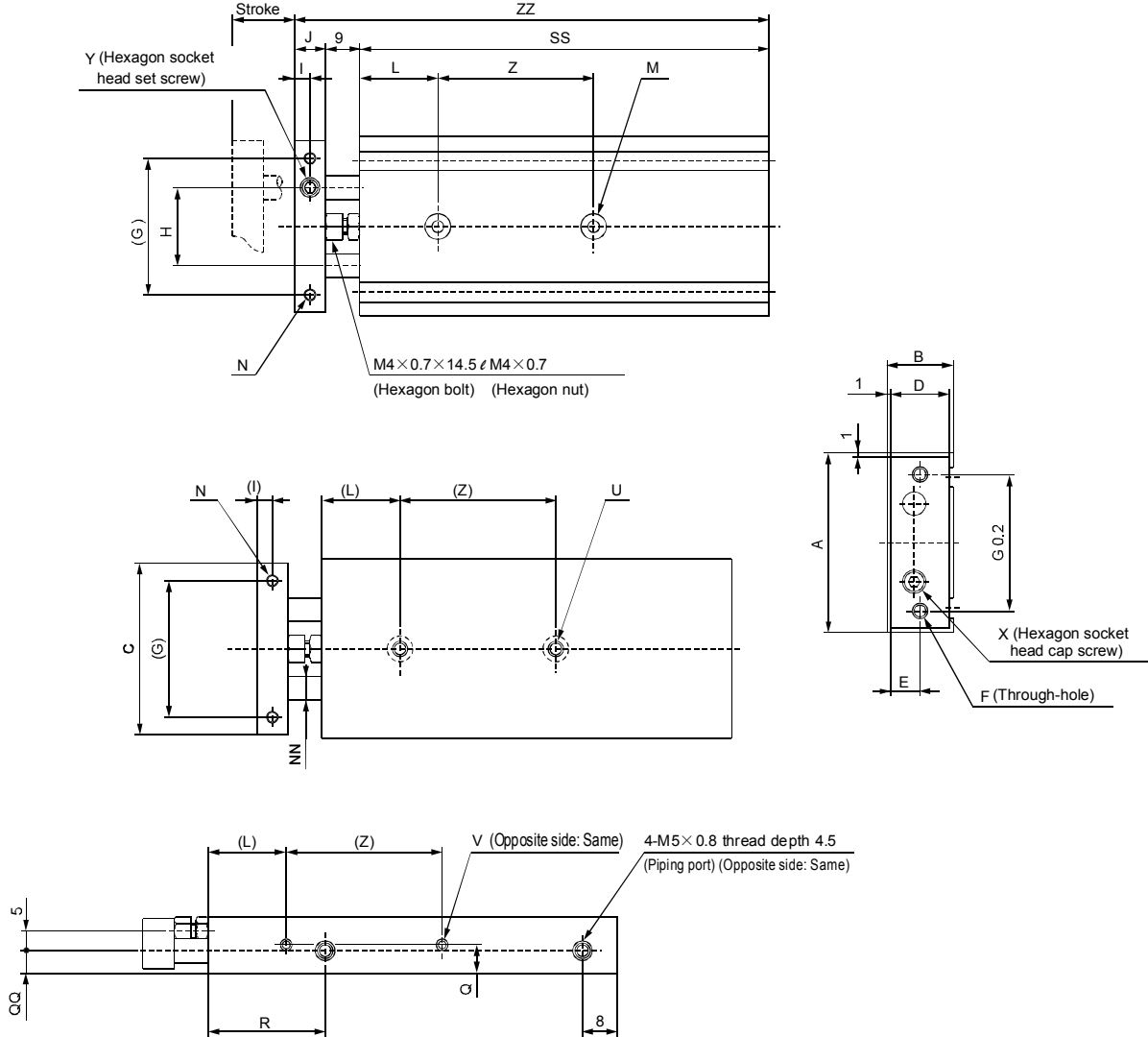
Model	Stroke	Z	S	SS	ZZ
CXS□6-10	10	15	23	55	68.5
CXS□6-20	20	20	33	65	78.5
CXS□6-30	30	25	43	75	88.5
CXS□6-40	40	30	53	85	98.5
CXS□6-50	50	35	63	95	108.5

Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

CXSM□-□ Φ 10,15
 CXSL□-□ Φ 10,15



Note): Slide bearing (M) and ball bushing bearing (L) are same dimensions.

(mm)

Model	A	B	C	D	E	F	G	H	I	J	L	M	N	NN	P	Q	QQ	R	U	V	X	Y
CXS□10	46	17	44	15	7.5	2-M4×0.7	35	20	4	8	20	2-Φ3.4 through 2-Φ6.5 counterbore depth 3.3	2-M3×0.5 thread depth 5	Φ6	33.6	8.5	7	30	2-M4×0.7 thread depth 7	4-M3×0.5 thread depth 4.5	M3×0.5×10ℓ	M5×0.8×5ℓ
CXS□15	58	20	56	18	9	2-M5×0.8	45	25	5	10	30	2-Φ4.3 through 2-Φ8 counterbore depth 4.4	2-M4×0.7 thread depth 6	Φ8	48	10	10	38.5	2-M5×0.8 thread depth 8	4-M4×0.7 thread depth 5	M5×0.8×10ℓ	M6×1.0×5ℓ

◆ Dimensions by Stroke

(mm)

Model	SS										Z					ZZ																			
	10	15	20	25	30	35	40	45	50	60	10,15	30,35,	60,70,	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100							
CXS□10	65	70	75	80	85	90	95	100	105	115	125	130	—	—	—	30	40	50	—	—	82	87	92	97	102	107	112	117	122	132	142	147	—	—	
CXS□15	70	75	80	85	90	95	100	105	110	120	130	135	140	150	160	25	35	45	45	55	89	94	99	104	109	114	119	124	129	139	149	154	159	169	179

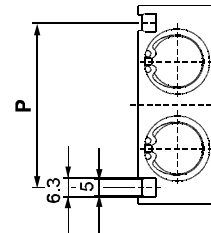
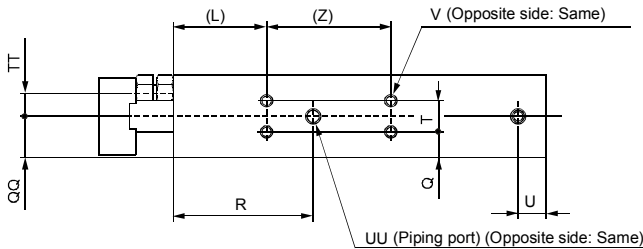
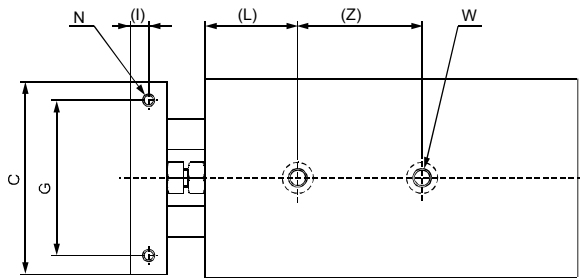
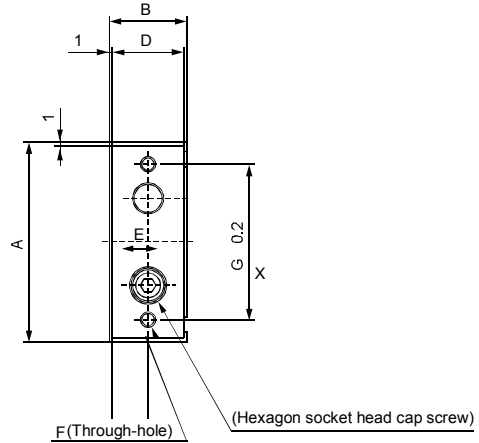
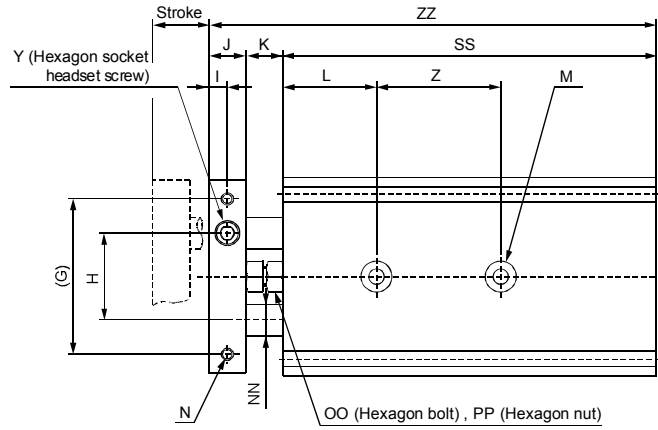
Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

CXSM□-□ Φ 20,25,32

CXSL□-□ Φ 20,25,32



Note: Slide bearing (M) and ball bushing bearing (L) are same dimensions.

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	OO	P
CXS □20	64	25	62	23	11.5	2-M5×0.8 2-Φ9.5 through counterbore depth 5.3	50	28	6	12	12	30	2-Φ5.5 through 2-M4×0.7 thread depth 6	Φ10	M6×1.0×18.5ℓ	53	
CXS □25	80	30	78	28	14	2-M6×1.0 2-Φ11 through counterbore depth 6.3	60	35	6	12	12	30	2-Φ6.9 through 2-M5×0.8 thread depth 7.5	Φ12	M6×1.0×18.5ℓ	64	
CXS □32	98	38	96	36	18	2-M6×1.0 2-Φ11 through counterbore depth 6.3	75	44	8	16	14	30	2-Φ6.9 through 2-M5×0.8 thread depth 8	Φ16	M8×1.25×23ℓ	76	

Model	PP	Q	QQ	R	T	TT	U	UU	V	W	X	Y
CXS □20	M6×1.0	7.75	12.5	45	9.5	6.5	8	4-M5×0.8 thread depth 4.5	8-M4×0.7 thread depth 5.5	2-M6×1.0 thread depth 10	M6×1.0×12ℓ	M8×1.25×6ℓ
CXS □25	M6×1.0	8.5	15	46	13	9	9	4-Rc 1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M6×1.0×14ℓ	M8×1.25×6ℓ
CXS □32	M8×1.25	9	19	56	20	11.5	10	4-Rc 1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M8×1.25×16ℓ	M10×1.5×8ℓ

◆ Dimensions by Stroke

Symbol Stroke Model	SS										Z			ZZ																			
	10	16	20	25	30	35	40	45	50	60	70	75	80	90	100	10, 15, 20, 25	30, 35, 40, 45, 50	60, 70, 75, 80, 90, 100	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100
CXS □20	80	85	90	95	100	105	110	115	120	130	140	145	150	160	170	30	40	60	104	109	114	119	124	129	134	139	144	154	164	169	174	184	194
CXS □25	82	87	92	97	102	107	112	117	122	132	142	147	152	162	172	30	40	60	106	111	116	121	126	131	136	141	146	156	166	171	176	186	196
CXS □32	92	97	102	107	112	117	122	127	132	142	152	157	162	172	182	40	50	70	122	127	132	137	142	147	152	157	162	172	182	187	192	202	212

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

D

Auto switch

AC,AD

HR

RB

RBQ

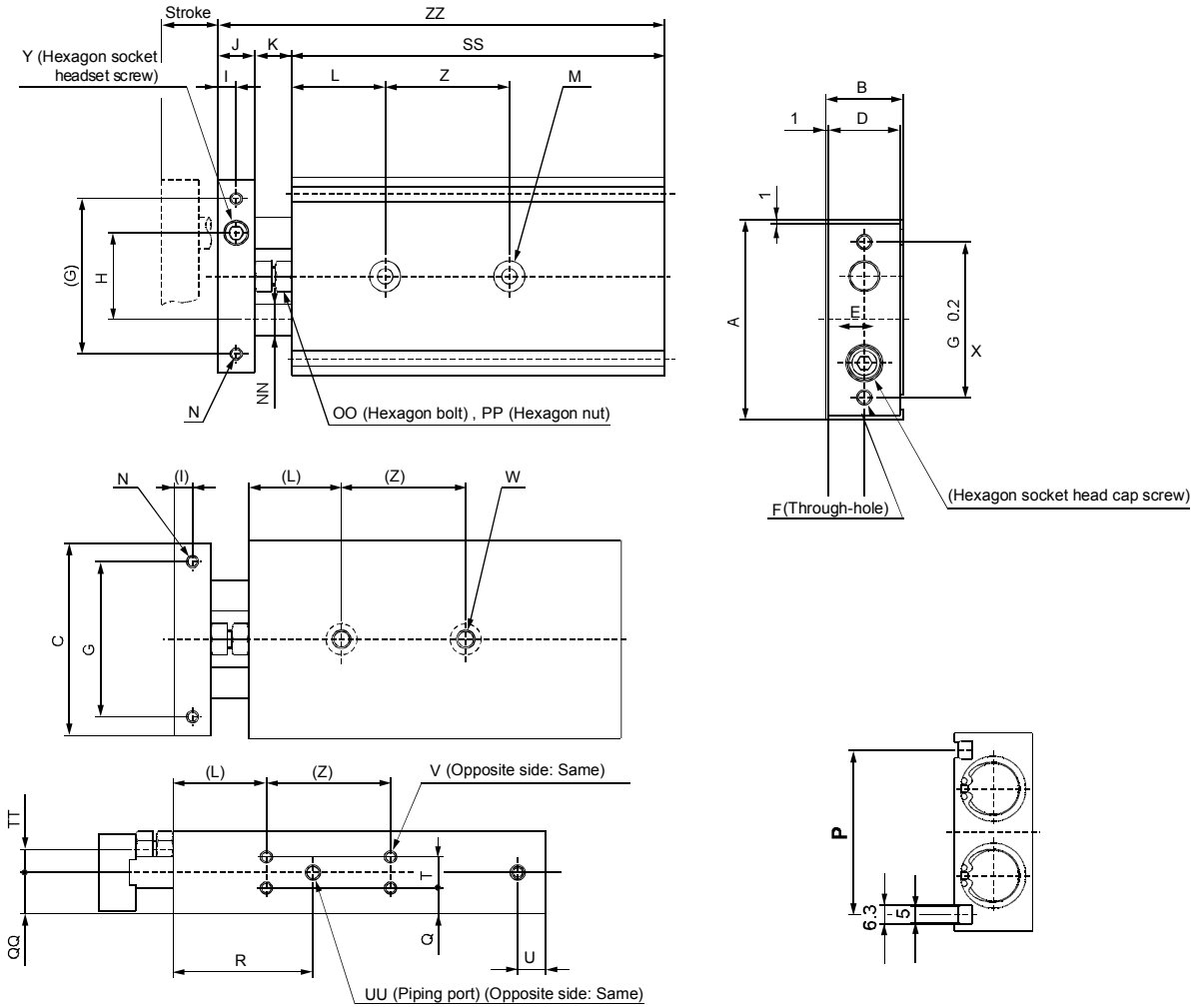
Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

CXSM□-□ Φ 20,25,32

CXSL□-□ Φ 20,25,32



Note: Slide bearing (M) and ball bushing bearing (L) are same dimensions.

Model	(mm)																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	OO	P
CXS □ 20	64	25	62	23	11.5	2-M5×0.8	50	28	6	12	12	30	2-Φ9.5 through 2-Φ6.9 counterbore depth 5.3	2-M4×0.7 thread depth 6	Φ10	M6×1.0×18.5ℓ	53
CXS □ 25	80	30	78	28	14	2-M6×1.0	60	35	6	12	12	30	2-Φ11 through 2-Φ6.9 counterbore depth 6.3	2-M5×0.8 thread depth 7.5	Φ12	M6×1.0×18.5ℓ	64
CXS □ 32	98	38	96	36	18	2-M6×1.0	75	44	8	16	14	30	2-Φ11 through 2-Φ6.9 counterbore depth 6.3	2-M5×0.8 thread depth 8	Φ16	M8×1.25×23ℓ	76

Model	(mm)											
	PP	Q	QQ	R	T	TT	U	UU	V	W	X	Y
CXS □ 20	M6×1.0	7.75	12.5	45	9.5	6.5	8	4-M5×0.8 thread depth 4.5	8-M4×0.7 thread depth 5.5	2-M6×1.0 thread depth 10	M6×1.0×12ℓ	M8×1.25×6ℓ
CXS □ 25	M6×1.0	8.5	15	46	13	9	9	4-Rc 1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M6×1.0×14ℓ	M8×1.25×6ℓ
CXS □ 32	M8×1.25	9	19	56	20	11.5	10	4-Rc 1/8 thread depth 6.5	8-M5×0.8 thread depth 7.5	2-M8×1.25 thread depth 12	M8×1.25×16ℓ	M10×1.5×8ℓ

◆ Dimensions by Stroke

Symbol Stroke Model	SS										Z			ZZ																			
	10	16	20	25	30	35	40	45	50	60	70	75	80	90	100	10, 15, 20, 25	30, 35, 40, 45, 50	60, 70, 75, 80, 90, 100	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100
CXS □ 20	80	85	90	95	100	105	110	115	120	130	140	145	150	160	170	30	40	60	104	109	114	119	124	129	134	139	144	154	164	169	174	184	194
CXS □ 25	82	87	92	97	102	107	112	117	122	132	142	147	152	162	172	30	40	60	106	111	116	121	126	131	136	141	146	156	166	171	176	186	196
CXS □ 32	92	97	102	107	112	117	122	127	132	142	152	157	162	172	182	40	50	70	122	127	132	137	142	147	152	157	162	172	182	187	192	202	212

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

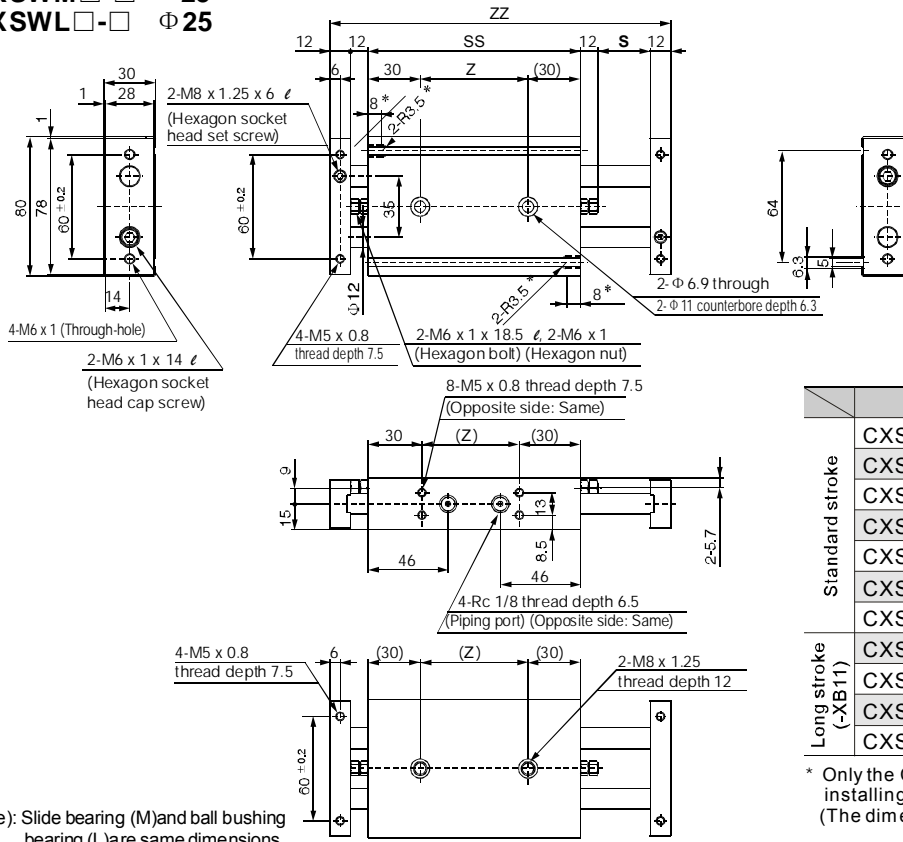
RBQ

Twin Rod Cylinder

Double Acting, Single Rod / Double Rod

Series CXS, CXSW

CXSW □ - □ Φ 25
CXSWL □ - □ Φ 25

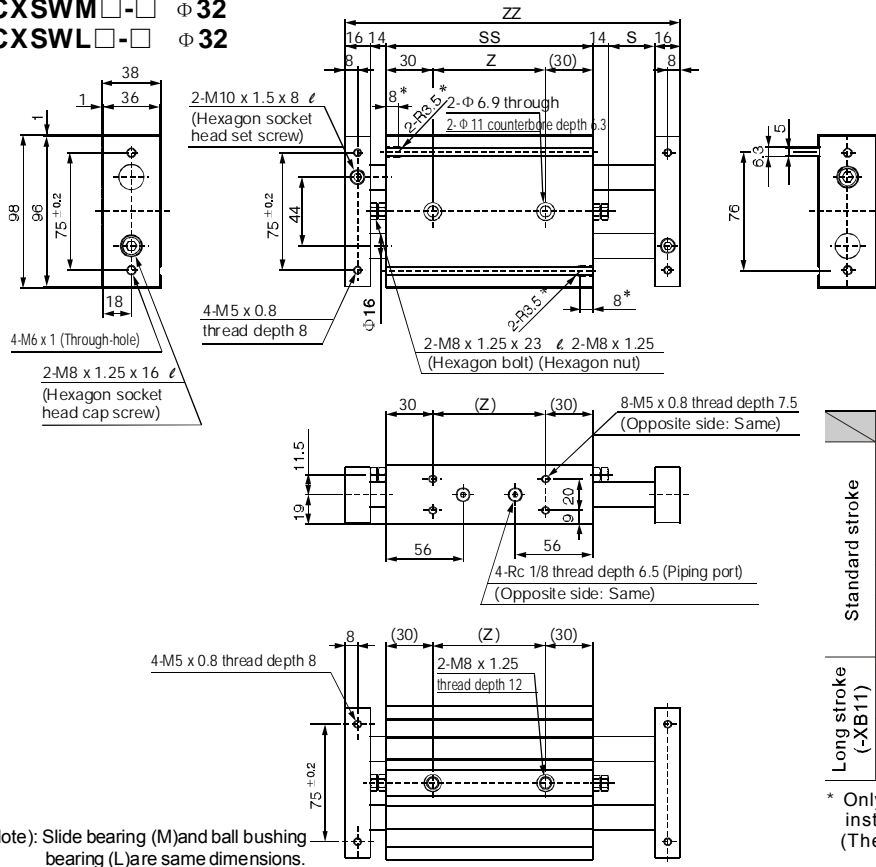


(mm)

	Model	S	SS	ZZ	Z
Standard stroke	CXSW □25-10	10	122	62	180
	CXSW □25-20	20	132	72	200
	CXSW □25-30	30	142	82	220
	CXSW □25-40	40	152	92	240
	CXSW □25-50	50	162	102	260
	CXSW □25-75	75	187	127	310
Long stroke (-XB11)	CXSW □25-125	125	237	177	410
	CXSW □25-150	150	262	202	460
	CXSW □25-175	175	287	227	510
	CXSW □25-200	200	312	252	560

* Only the CXSW □25-10 has a groove cut out for installing auto switches.
 (The dimensions are marked “*”)

CXSW □ - □ Φ 32
CXSWL □ - □ Φ 32



(mm)

	Model	S	SS	ZZ	Z
Standard stroke	CXSW □32-10	10	143	213	83
	CXSW □32-20	20	153	233	93
	CXSW □32-30	30	163	253	103
	CXSW □32-40	40	173	273	113
	CXSW □32-50	50	183	293	123
	CXSW □32-75	75	208	343	148
Long stroke (-XB11)	CXSW □32-100	100	233	393	173
	CXSW □32-125	125	258	443	198
	CXSW □32-150	150	283	493	223
	CXSW □32-175	175	308	543	248
CXSW □32-200	200	333	593	273	

* Only the CXSW □32-10 has a groove cut out for installing auto switches.
 (The dimensions are marked “*”)

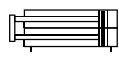
Twin Rod Cylinder

Double Acting, Single Rod

Series TN

◆ How to Order

Symbol
TN□-□



TN 20-50

Cylinder stroke
* Refer to "Standard stroke".

Bore size

10	16	20	25	32
----	----	----	----	----

Model

TN	Twin rod cylinder, built-in magnet, double acting; single rod
-----------	---

◆ Specifications

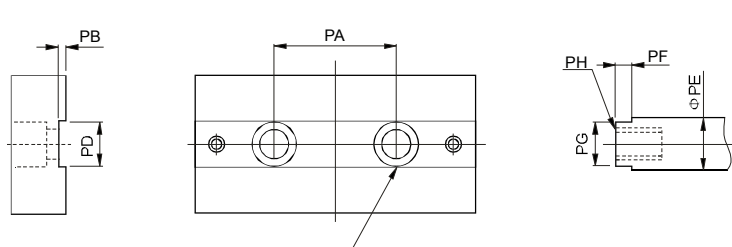
Bore size (mm)	10	16	20	25	32
Action	Double acting, single rod				
Fluid	Filtered compressed air				
Proof pressure	1.5 MPa				
Operating pressure range	0.1~0.9 Mpa				
Ambient and fluid temperature	-5~70°C (No freezing)				
Port size	M5×0.8				Rc1/8
Cushion	Rubber bumper				
Stroke adjustable range	0 to -10mm compared to the standard stroke.				

◆ Standard Stroke

Bore size (mm)	Standard stroke(mm)												Maximum stroke	Available stroke
10	10	20	30	40	50	60	70	80	90	100	125	150	70	100
16	10	20	30	40	50	60	70	80	90	100	125	150	150	200
20	10	20	30	40	50	60	70	80	90	100	125	150	150	200
25	10	20	30	40	50	60	70	80	90	100	125	150	150	200
32	10	20	30	40	50	60	70	80	90	100	125	150	150	200

◆ Dimensions

Fixing plate



Bore size(mm)	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.7	Φ6.2×3.5dp Thru. hole: Φ3.3	5.2	6	2.2	5.1	M3×3.5 5.5dp
16	24	1	Φ7.8×4.6dp Thru. hole: Φ4.3	6.2	8	3	6.1	M4×0.7 9dp
20	28	1	Φ11×6.8dp Thru. hole: Φ6.5	8.2	10	3	8.1	M6×1 10dp
25	34	1	Φ11×6.8dp Thru. hole: Φ6.5	10.2	12	3	10.1	M6×1 10dp
32	42	2	Φ17×12dp Thru. hole: Φ10.5	14.2	16	3	14.1	M10×1.5 13dp

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

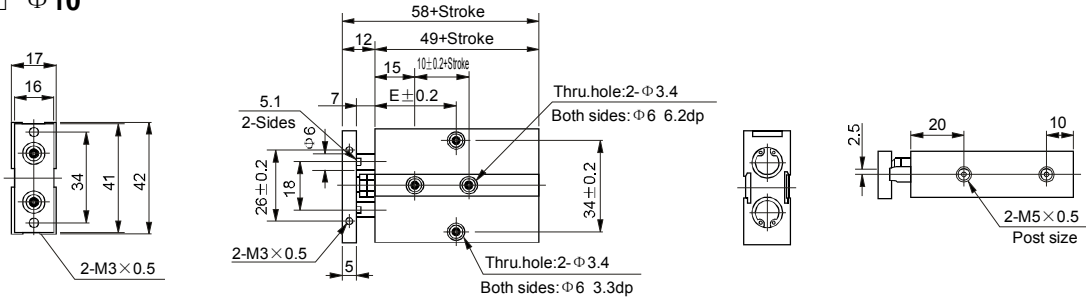
RBQ

Twin Rod Cylinder

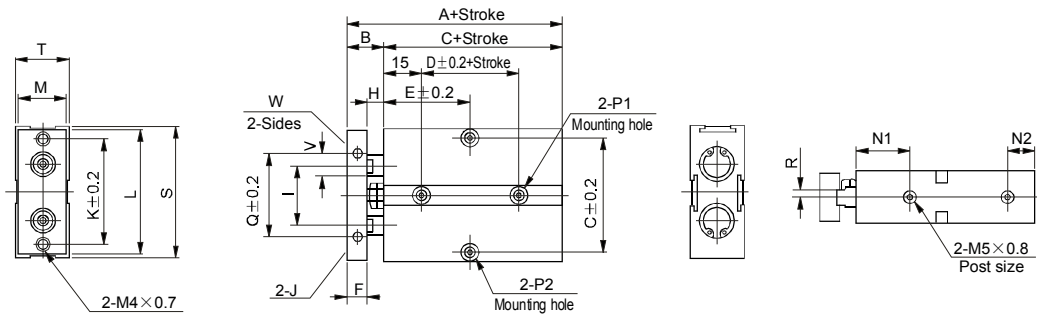
Double Acting, Single Rod

Series TN

TN □-□ Φ 10



TN □-□ Φ 16, 20, 25

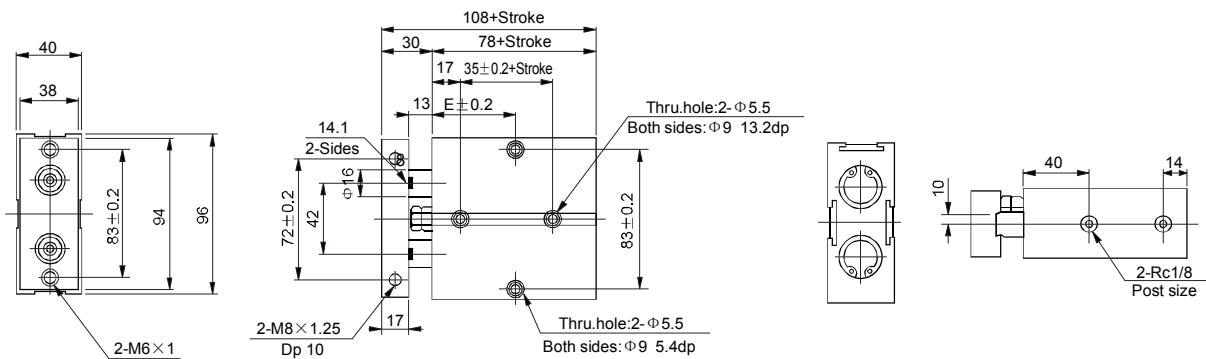


Stroke	10	20	30	40	50	60	70
E	30	30	35	40	45	50	55

Bore size(mm)	A	B	C	D	Stroke ≤	10	20	30	40	50	60	70	80	90	100	125	150	F	G	H	I
16	68	15	53	20	E	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	7	24
20	78	20	58	20	E	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	10	28
25	81	19	62	30	E	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	9	34

Bore size(mm)	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4×0.7dp5	47	53	20	22	11	Both sides: Φ7.5dp7.2mm Thru.hole: Φ4.5	Both sides: Φ8dp4.5mm Thru.hole: Φ4.5	34	3	54	21	8	6.1
20	M4×0.7dp5	55	61	24	25	12	Both sides: Φ7.5dp7.2mm Thru.hole: Φ4.5	Both sides: Φ8dp4.5mm Thru.hole: Φ4.5	44	3.5	62	25	10	8.1
25	M4×0.7dp6	66	72	29	27	12	Both sides: Φ7.5dp7.2mm Thru.hole: Φ4.5	Both sides: Φ8dp4.5mm Thru.hole: Φ4.5	56	6	73	30	12	10.1

TN □-□ Φ 32



Stroke ≤	10	20	30	40	50	60	70	80	90	100	125	150
E	45	50	55	60	65	70	75	80	85	90	102.5	115

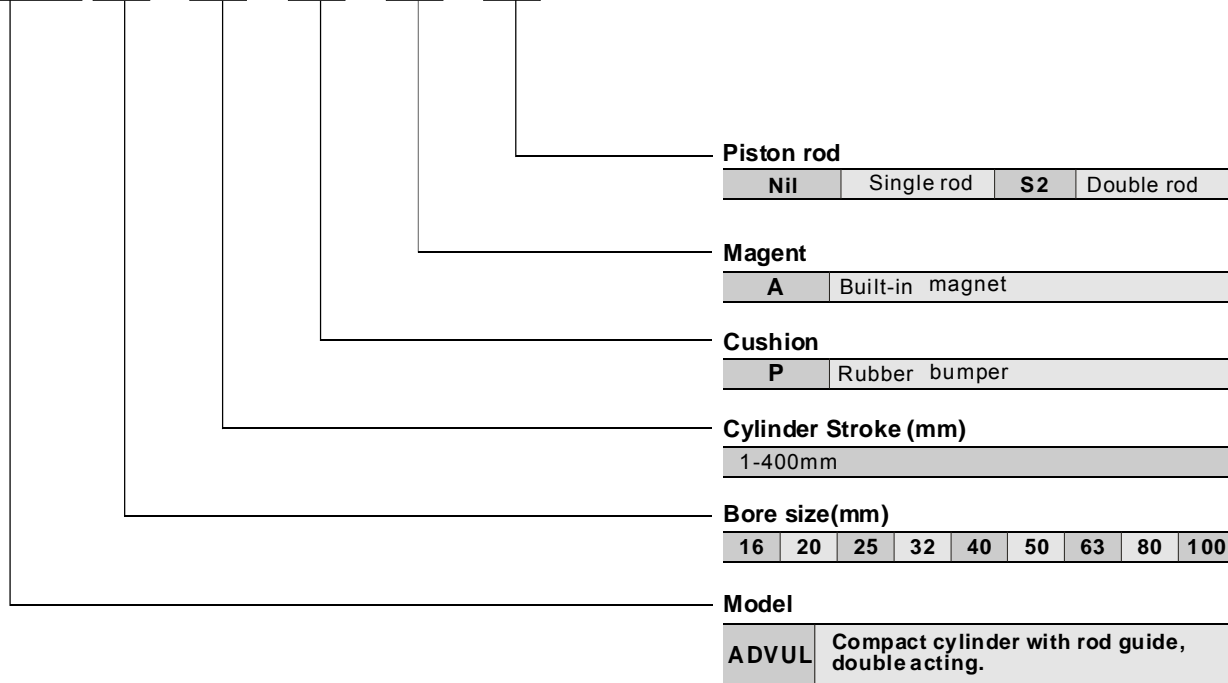
Guide Rod Compact Cylinder

Double Acting, Single Rod / Double Rod

Series ADVUL

◆ How to Order

ADVUL 50 - 80 - P - A - S2



Symbol

ADVUL□-□-□-□-□-□-□-□-□-□-□-□

ADVUL□-□-□-□-□-□-□-□-□-□-□-□



◆ Specifications

Bore size (mm)	16	20	25	32	40	50	63	80	100
Action	Double acting, single rod / double rod								
Fluid	Filtered compressed air								
Proof Pressure	1.5MPa								
Operating pressure range	0.05~1.0MPa								
Ambient and fluid temperature	-20~80°C (no freezing)								
Port size	M5	M5	M5	G1/8	G1/8	G1/8	G1/8	G1/8	G1/4
Cushion	Rubber bumper								

Note): Please contact with ANSSION for the mounting accessories.

I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

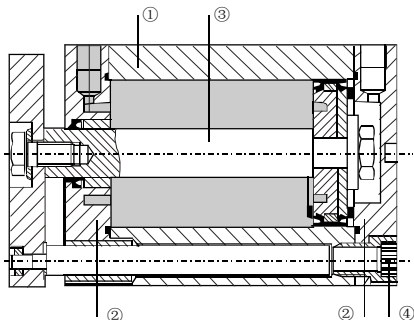
RBQ

Guide Rod Compact Cylinder

Double Acting, Single Rod / Double Rod

Series ADVUL

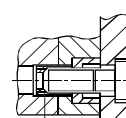
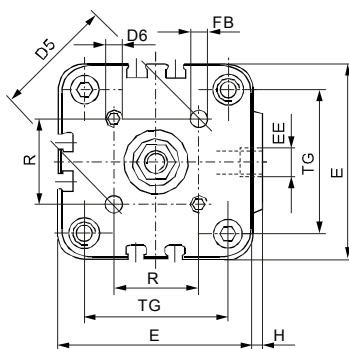
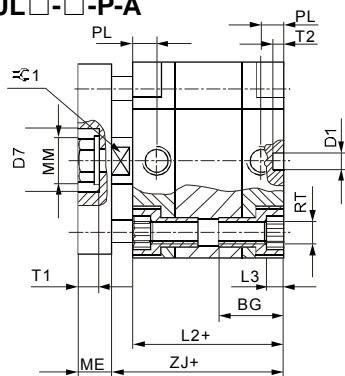
◆ Materials



Variant	Basic type	
1 Cylinder barrel	Wrought aluminium alloy	
2 Bearing and end cap	Wrought aluminium alloy	
3 Piston rod	φ 16...32	High-alloy stainless steel
	φ 40...100	High-alloy steel
4 Flange screws	φ 16	High-alloy stainless steel
	φ 20...100	Tempered steel
- Seals	Polyurethane, nitrile rubber	

◆ Dimensions

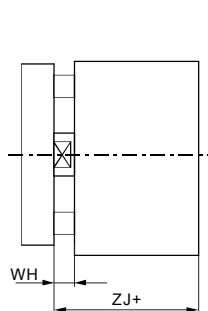
ADVUL □-□-P-A



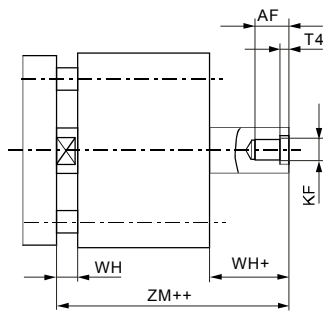
② 2 Minimum screw-in depth
+ =plus stroke length

Bore size (mm)	BG ¹⁾	D1 φ H9	D5	D6	D7 φ H9	E	EE	FB φ H8	H	L2	L3	L4	ME	MM φ	PL	R	RT	T1 +0.2	T1 -0.2	TG	h13
16	18.5	6	14	M3	-	29	M5	3	1	38	3	16	6	8	8	9.9	M4	-	4	18	7
20	18.5	6	17	M4	-	36	M5	4	1.5	38	4	18	8	10	8	12	M5	-	4	22	9
25	18.5	6	22	M5	14	40	M5	5	1.5	39.5	4	18	8	10	8	15.6	M5	4.8	4	26	9
32	21.5	6	28	M5	17	50	G1/8	5	2	44.5	5	20	10	12	8	19.8	M6	6.1	4	32	10
40	21.5	6	33	M5	17	60	G1/8	5	2.5	45.5	5	20	10	12	8	23.3	M6	6.1	4	42	10
50	22	6	42	M6	22	68	G1/8	6	3	45.5	6	20	12	16	8	29.7	M8	7.6	4	50	13
63	24.5	8	50	M6	22	87	G1/8	6	4	50	8	25	12	16	8	35.4	M10	7.6	4	62	13
80	27.5	8	65	M8	28	107	G1/8	8	4	56	8	25	14	20	8.5	46	M10	8.7	4	82	17
100	32.5	8	80	M10	30	128	G1/4	10	5	66.5	8	25	14	25	10.5	56.6	M10	10.3	4	103	22

Single rod style



Double rod style



φ (mm)	AF	KF	T4	WH	ZJ	ZM
16	10	M4	1.5	4.5	42.5	47
20	12	M5	2	4.5	42.5	47
25	12	M5	2	5.5	45	50.5
32	14	M6	2.6	6	50.5	56.5
40	14	M6	2.6	6.5	52	58.5
50	16	M8	3.3	7.5	53	60.5
63	16	M8	3.3	7.5	57.5	65
80	20 ¹⁾	M10	4.7	8	64	72
100	24 ¹⁾	M12	6.1	10	76.5	86.5

1) With a stroke <5 mm, the maximum screw-in depth is reduced by 5 mm.

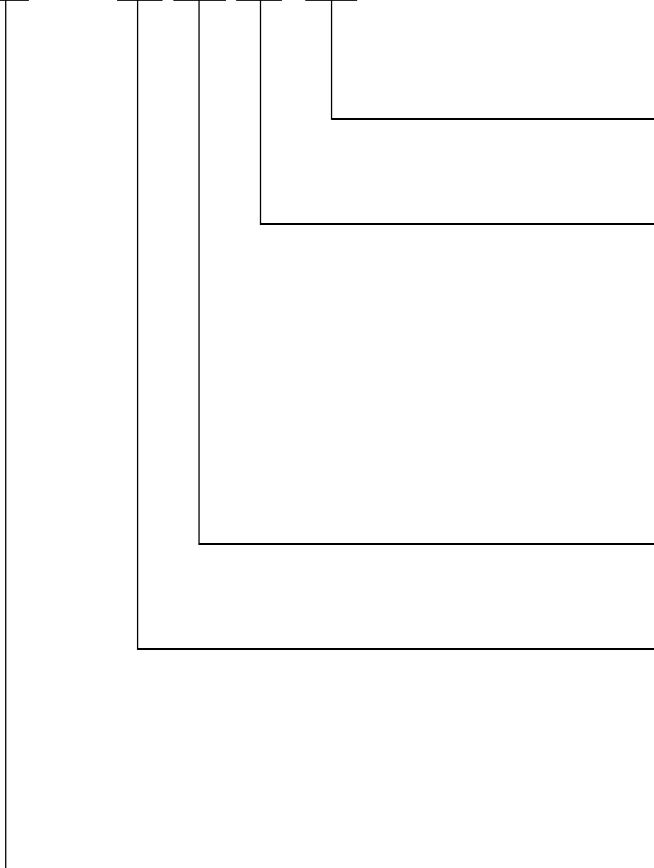
Guide Rod Compact Cylinder

Double Acting, Single Rod

Series CQM

◆ How to Order

C D QM B 20 10



Cylinder stroke (mm)

* Refer to "Standard stroke" .

Thread type

Symbol	Port thread	Mounting thread	Bore size
Nil	M thread	M thread	φ 12 to φ 25
	Rc		
TN	NPT		φ 32 to φ 50
TF	G		
NN	M thread	Inch thread	φ 12 to φ 25
	NPT		φ 32 to φ 50

Note): M thread to be used for without auto switch type of φ32, 5 stroke exceptionally.

Bore size (mm)

12	16	20	25	32	40	50
----	----	----	----	----	----	----

Mounting

B	Through-hole (standard)
A	Both end tapped style (φ 32 to φ 50)

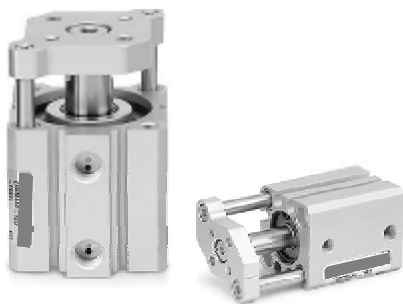
Note): A type is only available for φ 32,40,50.

Magent

Nil	Without magent	D	Built-in magent
-----	----------------	---	-----------------

◆ Specifications

Bore size (mm)	12	16	20	25	32	40	50
Action	Double acting, single rod						
Fluid	Filtered compressed air						
Proof pressure	1.5 MPa						
Operating pressure range	0.12~1.0 MPa			0.1~1.0 MPa			
Ambient and fluid temperature	-10°C to 70°C (No freezing)						
Port size(Rc,G,NPT)	M5×0.8			1/8		1/4	
Cushion	Rubber bumper						



⚠ Caution

This product should not be used as a stopper.

Symbol

CDQMB□-□



◆ Standard Stroke

Bore size (mm)	Standard stroke (mm)
12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 63, 75, 80, 100
50	10, 15, 20, 25, 30, 35, 40, 45, 50, 63, 75, 80, 100

I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

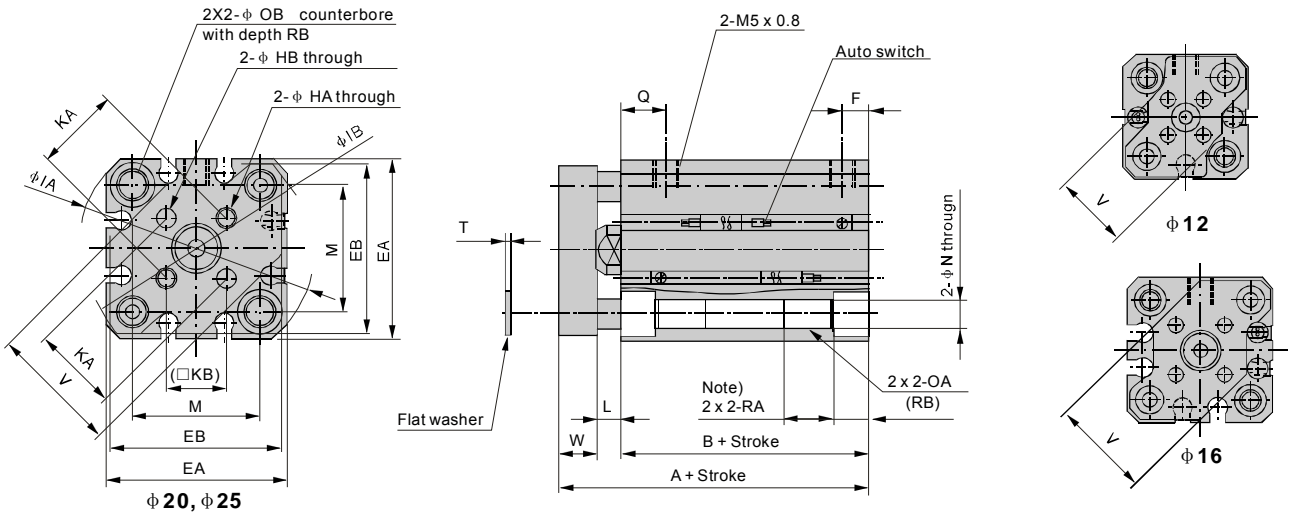
Guide Rod Compact Cylinder

Double Acting, Single Rod

Series CQM

◆Dimensions

C(D)QM□-□ φ 12 to 25
 (Basic style, through hole)



Bore size (mm)	Stroke range (mm)	Without magnet		Built-in magnet		EA	EB	F	HA		QA		HB	IA	HB
		A	B	A	B				-	NN	-	NN			
12	5 to 30	26.5	17	31.5	22	25	24	5	M3X0.5	4-40UNC	M4X0.7	8-32UNC	3	32	31.5
16	5 to 30	26.5	17	31.5	22	29	28	5	M3X0.5	4-40UNC	M4X0.7	8-32UNC	3	38	37
20	5 to 50	32	19.5	42	29.5	36	34	5.5	M4X0.7	6-32UNC	M6X1.0	1/4-20UNC	4	47	45.5
25	5 to 50	35.5	22.5	45.5	32.5	40	38	5.5	M5X0.8	10-32UNF	M6X1.0	1/4-20UNC	5	52	50.5

Bore size (mm)	KA	KB	L	M	N	OB	Q	RA	RB	T	V	W
12	10	7.1	3.5	15.5	3.5	6.5	7.5	7	4	0.5	14.9	6
16	14	9.9	3.5	20	3.5	6.5	7.5	7	4	0.5	20	6
20	17	12	4.5	25.5	5.4	9	9	10	7	1	26	8
25	22	15.6	5	28	5.4	9	11	10	7	1	30	8

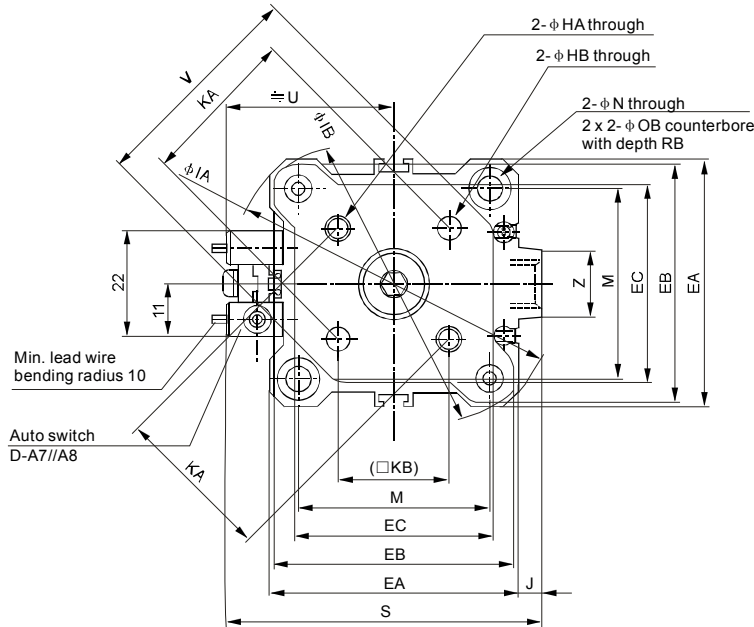
Note): For the following bore/stroke sizes, the through-hole is threaded.
 Standard without auto switch: φ 12 and φ 16; 5 stroke, φ 25; 5 to 10 stroke.
 Built-in magnet with auto switch: φ 20; 5 stroke.

Guide Rod Compact Cylinder

Double Acting, Single Rod

Series CQM

C(D)QM□-□ φ 32 to 50
 (Basic style, through hole)



Both ends tapped style (CQMA)

- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM**
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Bore size (mm)	Stroke range (mm)	Without auto switch																		
		A	B	F	Q	P				A	B	F	Q	P				EA	EB	EC
						-	TN	TF	NN					-	TN	TF	NN			
32	5	40	23	5.5	11.5	M5X0.8	-	-	M5X0.8	50	33	7.5	10.5	Rc1/8	NPT1/8	G1/8	NPT1/8	45	43	34.4
	10 to 50	40	23	7.5	10.5	10.5	Rc1/8	G1/8	NPT1/8	50	33	7.5	10.5	Rc1/8	NPT1/8	G1/8	NPT1/8	45	43	34.4
	75, 100	50	33	7.5	10.5	10.5	Rc1/8	G1/8	NPT1/8	50	33	7.5	10.5	Rc1/8	NPT1/8	G1/8	NPT1/8	45	43	34.4
40	5 to 50	46.5	29.5	8	11	11	Rc1/8	G1/8	NPT1/8	56.5	39.5	8	11	Rc1/8	NPT1/8	G1/8	NPT1/8	52	50	41.4
	75, 100	56.5	39.5	8	11	11	Rc1/8	G1/8	NPT1/8	56.5	39.5	8	11	Rc1/8	NPT1/8	G1/8	NPT1/8	52	50	41.4
50	10 to 50	50.5	30.5	10.5	10.5	10.5	Rc1/4	G1/4	NPT1/4	60.5	40.5	10.5	10.5	Rc1/4	NPT1/4	G1/4	NPT1/4	64	62	53.4
	75, 100	60.5	40.5	10.5	10.5	10.5	Rc1/4	G1/4	NPT1/4	60.5	40.5	10.5	10.5	Rc1/4	NPT1/4	G1/4	NPT1/4	64	62	53.4

Bore size (mm)	HA		QA		HB	IA	IB	J	KA	KB	L	M	N	OB	RA	RB	S	U	V	W	Z
	-TN,TF	NN	-TN,TF	NN																	
32	M5X0.8	10-32UNF	M6X1.0	1/4-20UNC	5	60	58.5	4.5	28	19.8	7	34	5.5	9	10	7	58.5	31.5	38	10	14
40	M5X0.8	10-32UNF	M6X1.0	1/4-20UNC	5	69	67.5	5	33	23.3	7	40	5.5	9	10	7	66	35	46	10	14
50	M6X1.0	1/4-20UNF	M8X1.25	5/16-18UNC	6	86	84.5	7	42	29.7	8	50	6.6	11	14	8	80	41	58	12	19

Compact Guide Cylinder

Double Acting, Single Rod

Series MGP

◆ How to Order

MGP M 25 - 30

Cylinder stroke

* Refer to "Standard stroke" .

Port thread type

Nil	M5×0.8	N	NPT
	Rc	TF	G

* For bore sizes 12 and 16, M5 x 0.8 is only available.

Bore size (mm)

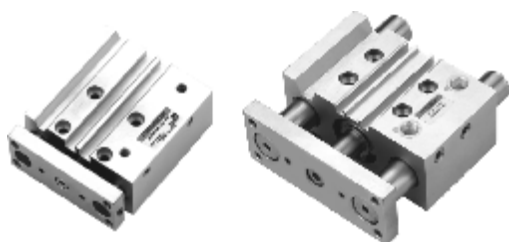
12	16	20	25	32
40	50	63	80	100

Bearing type

M	Slide bearing	L	Ball bushing bearing
---	---------------	---	----------------------

Model

MGP	Compact guide cylinder, built-in magnet, double acting; single rod
-----	--



Symbol

MGPM□-□



◆ Specifications

Bore size	12	16	20	25	32	40	50	63	80	100
Action	Double acting									
Fluid	Filtered compressed air									
Proof pressure	1.5 MPa									
Operating pressure range	0.12~1.0 Mpa				0.1~1.0 MPa					
Ambient and fluid temperature	-10~60°C (No freezing)									
Port size(Rc,G,NPT)	M5×0.8				1/8		1/4		3/8	
Cushion	Rubber bumper									

◆ Standard Stroke

Bore size (mm)	Standard stroke (mm)
12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

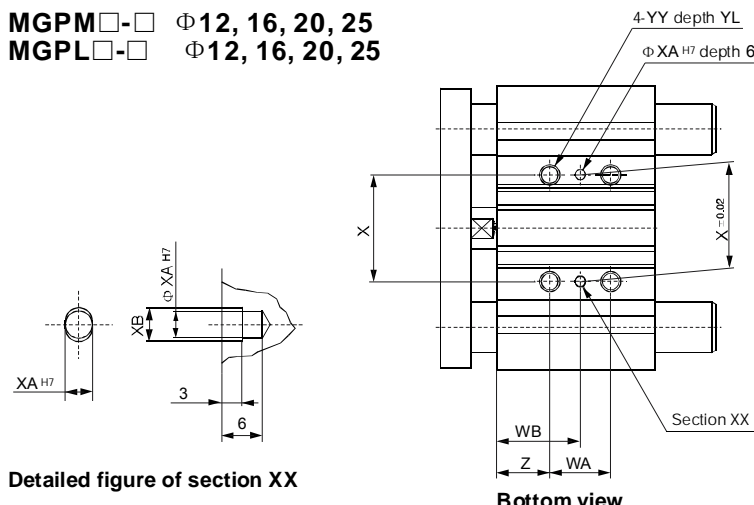
Compact Guide Cylinder

Double Acting, Single Rod

Series MGP

◆ Dimensions

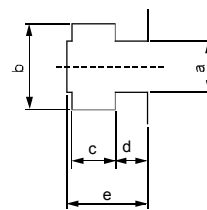
MGPM□-□ Φ12, 16, 20, 25
 MGPL□-□ Φ12, 16, 20, 25



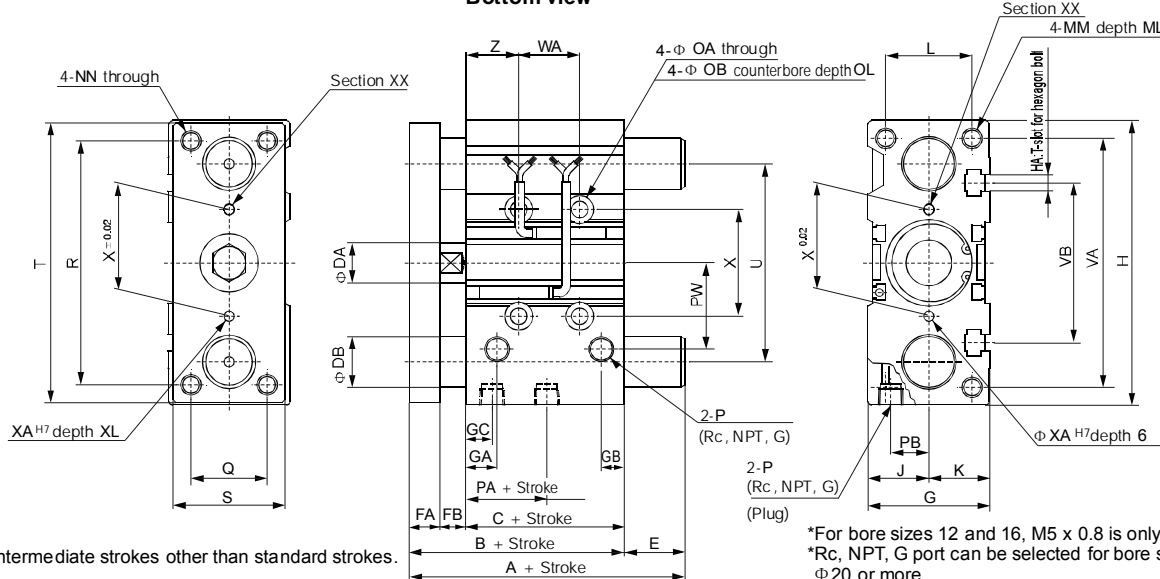
Detailed figure of section XX

Bottom view

T-slot dimensions



Bore size (mm)	a	b	c	d	e
12	4.4	7.4	3.7	2	6.2
16	4.4	7.4	3.7	2.5	6.7
20	5.4	8.4	4.5	2.8	7.8
25	5.4	8.4	4.5	3	8.2



*For bore sizes 12 and 16, M5 x 0.8 is only available.
 *Rc, NPT, G port can be selected for bore sizes with Φ20 or more.

MGPM, MGPL Common Dimensions

Bore size (mm)	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW
12	10, 20, 30, 40, 50, 75, 100	42	29	6	8	5	26	11	7.5	58	M4	13	13	18	M4 x 0.7	10	M4 x 0.7	4.3	8	4.5	M5 x 0.8	13	8	18
16	125, 150, 175, 200, 250	46	33	8	8	5	30	11	8	64	M4	15	15	22	M5 x 0.8	12	M5 x 0.8	4.3	8	4.5	M5 x 0.8	15	10	19
20	20, 30, 40, 50, 75, 100, 125, 150, 175, 200	53	37	10	10	6	36	10.5	8.5	83	M5	18	18	24	M5 x 0.8	13	M5 x 0.8	5.6	9.5	5.5	1/8	12.5	10.5	25
25	250, 300, 350, 400	53.5	37.5	12	10	6	42	11.5	9	93	M5	21	21	30	M6 x 1.0	15	M6 x 1.0	5.6	9.5	5.5	1/8	12.5	13.5	28.5

Bore size (mm)	Q	R	S	T	U	VA	VB	WA					WB					X	XA	XB	YY	YL	Z
								30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st	30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st						
12	14	48	22	56	41	50	37	20	40	110	200	-	15	25	60	105	-	23	3	3.5	M5 x 0.8	10	5
16	16	54	25	62	46	56	38	24	44	110	200	-	17	27	60	105	-	24	3	3.5	M5 x 0.8	10	5
20	18	70	30	81	54	72	44	24	44	120	200	300	29	39	77	117	167	28	3	3.5	M6 x 1.0	12	17
25	26	78	38	91	64	82	50	24	44	120	200	300	29	39	77	117	167	34	4	4.5	M6 x 1.0	12	17

MGPM (Slide bearing) A, DB, E Dimensions

Bore size (mm)	A			DB	E		
	50 st or less	Over 50 st to 100 st	Over 100 st		50 st or less	Over 50 st to 100 st	Over 100 st
12	42	60.5	85	8	0	18.5	43
16	46	64.5	95	10	0	18.5	49

MGPM (Slide bearing) A, DB, E Dimensions

Bore size (mm)	A			DB	E		
	50 st or less	Over 50 st to 200 st	Over 200 st		50 st or less	Over 50 st to 200 st	Over 200 st
20	53	84.5	122	12	0	31.5	69
25	53.5	85	122	16	0	31.5	68.5

MGPL (Ball bushing bearing) A, DB, E Dimensions

Bore size (mm)	A			DB	E		
	30 st or less	Over 30 st to 100 st	Over 100 st		30 st or less	Over 30 st to 100 st	Over 100 st
12	43	55	85	6	1	13	43
16	49	65	95	8	3	19	49

MGPL (Ball bushing bearing) A, DB, E Dimensions

Bore size (mm)	A				DB	E			
	30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st		30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st
20	63	80	104	122	10	10	27	51	69
25	69.5	85.5	104.5	122	13	16	32	51	68.5

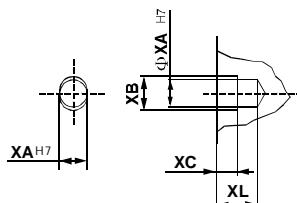
I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Compact Guide Cylinder

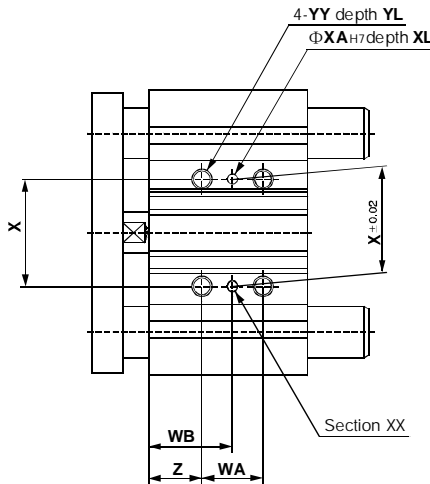
Double Acting, Single Rod

Series MGP

MGPM□-□ $\Phi 32,40,50,63$
 MGPL□-□ $\Phi 32,40,50,63$

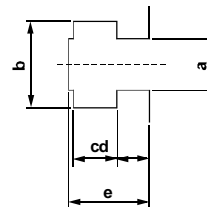


Detailed figure of XX section

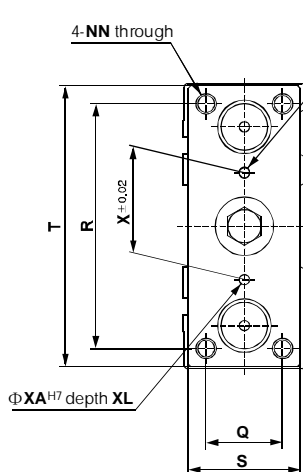


Bottom view

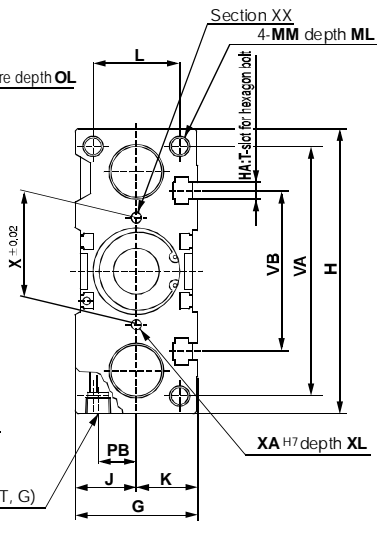
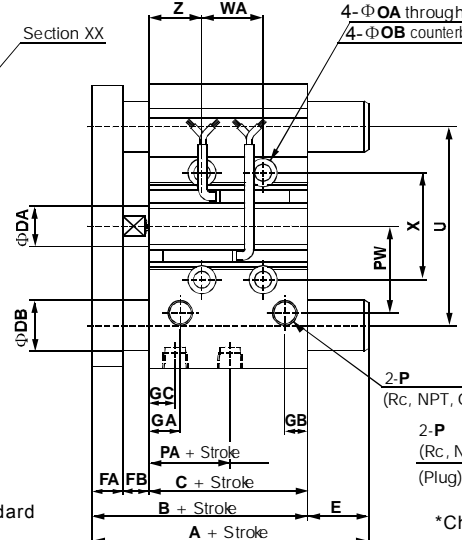
T-slot dimensions



Bore size (mm)	a	b	c	d	e
32	6.5	10.5	5.5	3.5	9.5
40	6.5	10.5	5.5	4.0	11
50	8.5	13.5	7.5	4.5	13.5
63	11	17.8	10	7	18.5



*For intermediate strokes other than standard strokes.



*Choice of Rc, NPT, G port is possible.

MGPM, MGPL Common Dimensions

Bore size (mm)	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q
32	25, 50, 75, 100,	59.5	37.5	16	12	10	48	12.5	9	12.5	112	M6	24	24	34	M8 x 1.25	20	M8 x 1.25	6.6	11	7.5	1/8	7	15	34	30
	125, 150, 175, 200	66	44	16	12	10	54	14	10	14	120	M6	27	27	40	M8 x 1.25	20	M8 x 1.25	6.6	11	7.5	1/8	13	18	38	30
50	250, 300, 350, 400	72	44	20	16	12	64	14	11	12	148	M8	32	32	46	M10 x 1.5	22	M10 x 1.5	8.6	14	9	1/4	9	21.5	47	40
		77	49	20	16	12	78	16.5	13.5	16.5	162	M10	39	39	58	M10 x 1.5	22	M10 x 1.5	8.6	14	9	1/4	14	28	55	50

Bore size (mm)	R	S	T	U	VA	VB	WA					WB					X	XA	XB	XC	XL	YY	YL	Z
							25 st or less	Over 25 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st	25 st or less	Over 25 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st								
32	96	44	110	78	98	63	24	48	124	200	300	33	45	83	121	171	42	4	4.5	3	6	M8 x 1.25	16	21
40	104	44	118	86	106	72	24	48	124	200	300	34	46	84	122	172	50	4	4.5	3	6	M8 x 1.25	16	22
50	130	60	146	110	130	92	24	48	124	200	300	36	48	86	124	174	66	5	6	4	8	M10 x 1.5	20	24
63	130	70	158	124	142	110	28	52	128	200	300	38	50	88	124	174	80	5	6	4	8	M10 x 1.5	20	24

MGPM (Slide bearing) A, DB, E Dimensions

Bore size (mm)	A			DB	E		
	50 st or less	Over 50 st to 200 st	Over 200 st		50 st or less	Over 50 st to 200 st	Over 200 st
32	97	102	140	20	37.5	42.5	80.5
40	97	102	140	20	31	36	74
50	106.5	118	161	25	34.5	46	89
63	106.5	118	161	25	29.5	41	84

MGPL (Ball bushing bearing) A, DB, E Dimensions

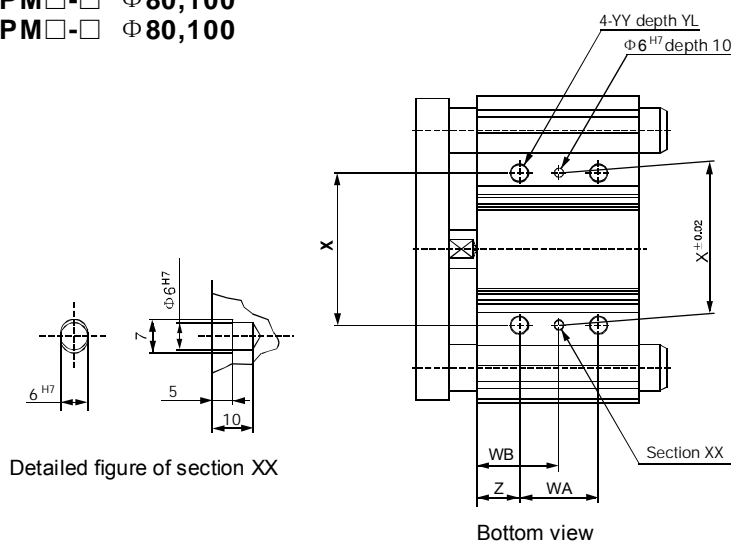
Bore size (mm)	A				DB	E			
	30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st		30 st or less	Over 30 st to 100 st	Over 100 st to 200 st	Over 200 st
32	81	98	118	140	16	21.5	38.5	58.5	80.5
40	81	98	118	140	16	15	32	52	74
50	93	114	134	161	20	21	42	62	89
63	93	114	134	161	20	16	37	57	84

Compact Guide Cylinder

Double Acting, Single Rod

Series MGP

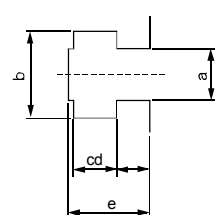
MGPM□-□ Φ 80,100
 MGPM□-□ Φ 80,100



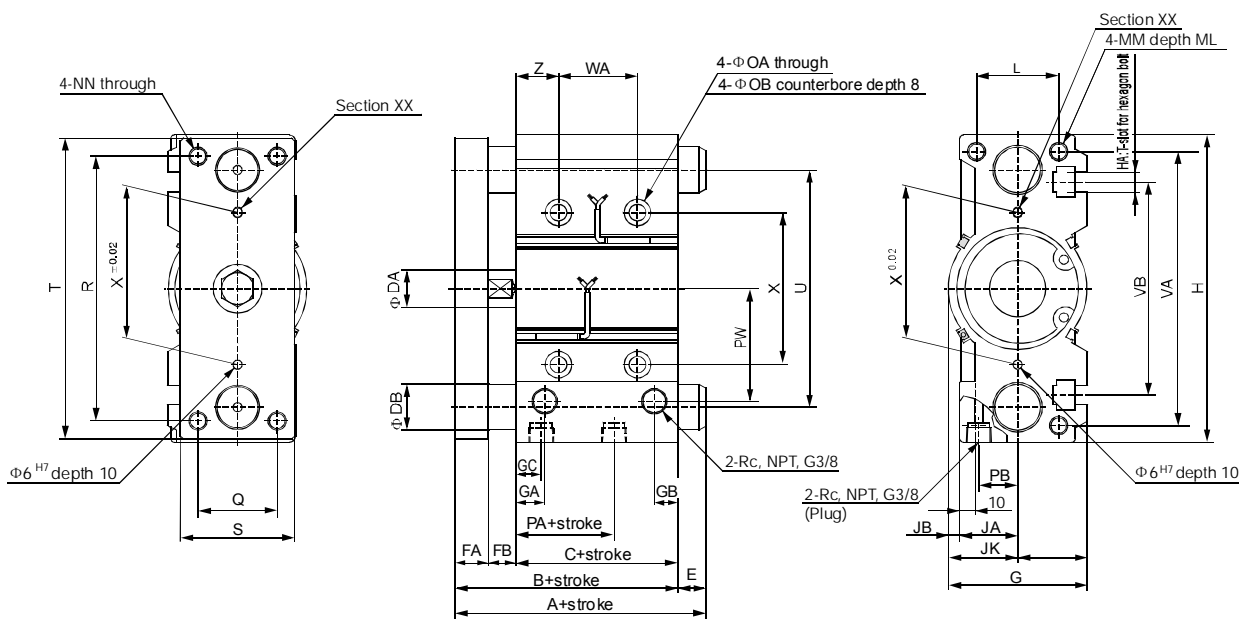
Detailed figure of section XX

Bottom view

T-slot dimensions



Bore size (mm)	a	b	c	d	e
80	13.3	20.3	12	8	22.5
100	15.3	23.3	13.5	10	30



MGPM, MGPL Common Dimensions

Bore size (mm)	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	J	K	L	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q	R
80	25, 50, 75, 100, 125, 150, 175, 200	96.5	56.5	25	22	18	91.5	19	15.5	14.5	202	M12	45.5	38	7.5	46	54	M12 x 1.75	25	M12 x 1.75	10.6	17.5	14.5	25.5	74	52	174
100	250, 300, 350, 400	116	66	30	25	25	111.5	23	19	17.5	240	M14	55.5	45	10.5	56	62	M14 x 2.0	31	M14 x 2.0	12.5	20	17.5	32.5	89	64	210

Bore size (mm)	S	T	U	VA	VB	WA					WB					X	YY	YL	Z
						25 st or less	Over 25 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st	25 st or less	Over 25 st to 100 st	Over 100 st to 200 st	Over 200 st to 300 st	Over 300 st				
80	75	198	156	180	140	28	52	128	200	300	42	54	92	128	178	100	M12 x 1.75	24	28
100	90	236	188	210	166	11	72	148	220	320	35	47	85	121	171	124	M14 x 2.0	28	11

MGPM (Slide bearing) A, DB, E Dimensions

Bore size (mm)	A			DB	E		
	50 st or less	Over 50 st to 200 st	Over 200 st		50 st or less	Over 50 st to 200 st	Over 200 st
80	115	142	193	30	18.5	45.5	96.5
100	137	162	203	36	21	46	87

MGPL (Ball bushing bearing) A, DB, E Dimensions

Bore size (mm)	A				DB	E			
	25 st or less	Over 25 st to 50 st	Over 50 st to 200 st	Over 200 st		25 st or less	Over 25 st to 50 st	Over 50 st to 200 st	Over 200 st
80	109.5	130	160	193	25	13	33.5	63.5	96.5
100	121	147	180	203	30	5	31	64	87

I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP**
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

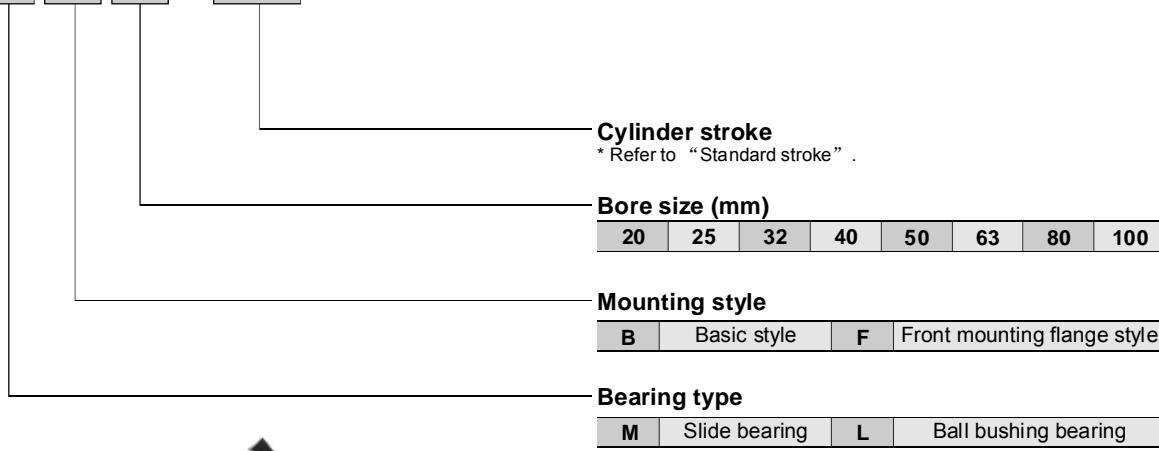
Guide Cylinder

Double Acting, Single Rod, Basic Type

Series MGG

◆ How to Order

MGG **M** **B** **32** - **100**



Symbol

MGGM□-□



◆ Specifications

Bore size (mm)	20	25	32	40	50	63	80	100
Action	Double acting							
Fluid	Filtered compressed air							
Proof pressure	1.5 MPa							
Operating pressure range	0.15~1.0 MPa							
Ambient and fluid temperature	-10~60℃(No freezing)							
Port size	Rc1/8			Rc1/4		Rc3/8	Rc1/2	
Cushion	Basic cylinder	Rubber bumper						
	Guide unit	Built-in shock absorbers (2 pcs.)						
Stroke adjusting range(One side) [Built-in adjusting bolts(2 pcs.)]	0~-10mm	0~-15mm						
Mounting style	Basic style, Front mounting flange style.							

◆ Standard Stroke

Model	Bearing type	Bore size(mm)	Standard stroke(mm)	Long stroke(mm)
MGGM	Slide bearing	20	75,100,125,150,200	250,300,350,400
		25	75,100,125,150,200, 250,300	350,400,450,500
		32		350,400,450,500,600
		40		350,400,450,500,600,700,800
MGGL	Ball bushing bearing	50		75,100,125,150,200, 250,300
		63	350,400,450,500,600,700,800,900,1000,1100	
		80	350,400,450,500,600,700,800,900,1000,1100,1200	
		100	350,400,450,500,600,700,800,900,1000,1100,1200,1300	

Guide Cylinder

Double Acting, Single Rod, Basic Type

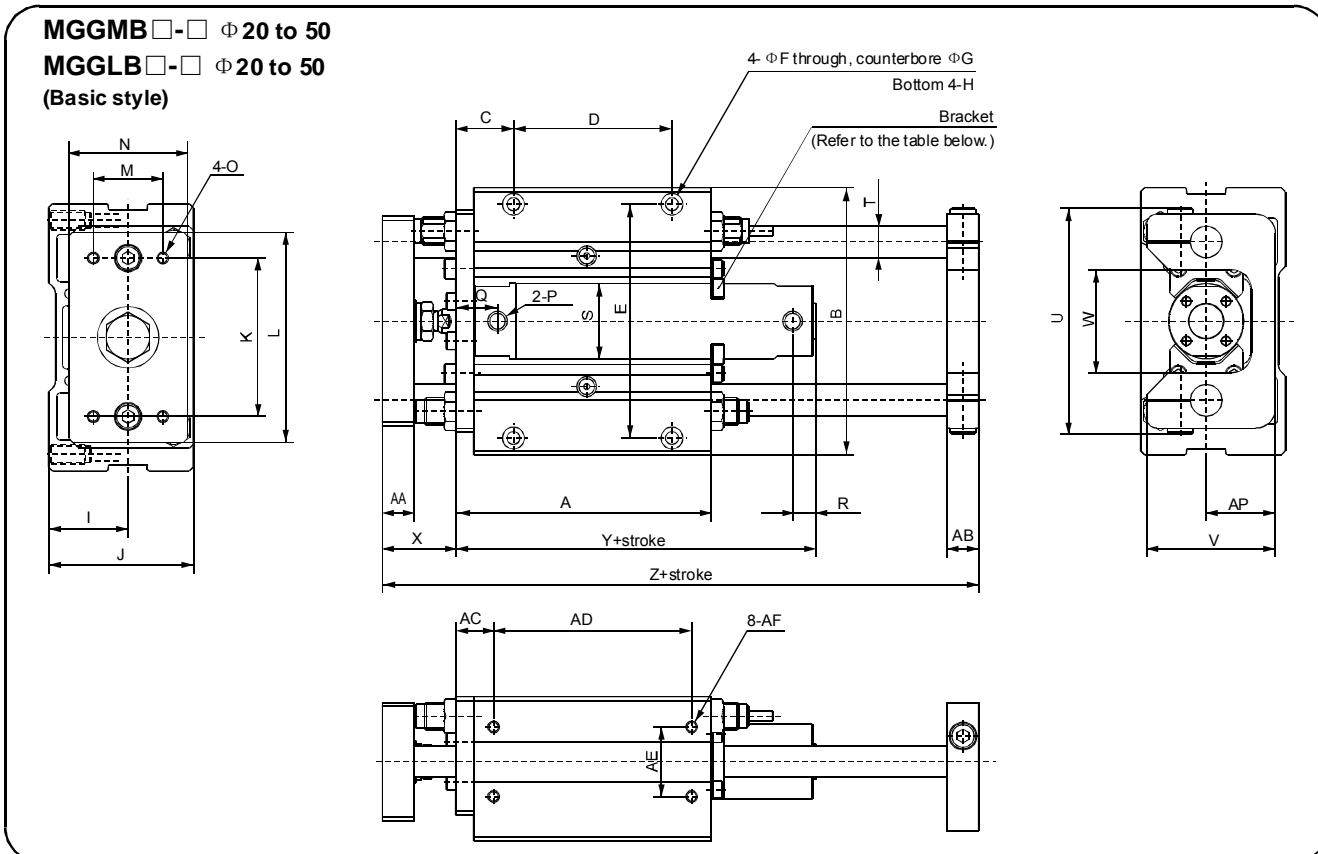
Series MGG

◆ Shock Absorber Specifications

Shock absorber model		RB1007	RN1412	RB2015	RB2725
Applicable guide cylinder		MGG□□20	MGG□□25/32	MGG□□40/50/63	MGG□□80/100
Maximum energy absorption		5.88 J	19.6 J	58.8 J	147 J
Stroke absorption		7 mm	12 mm	15 mm	25 mm
Maximum collision speed		5 m/s			
Max. operating frequency *		70 cycle/min	45 cycle/min	25 cycle/min	10 cycle/min
Ambient temperature range		-10~80°C			
Spring force	Extended	4.22 N	6.86 N	8.34 N	8.83 N
	Retracted	6.860 N	15.98 N	20.5 N	20.01 N

* It denotes the values at the maximum energy absorption per one cycle. Therefore, the operating frequency can be increased according to the energy absorption.

◆ Dimensions



Bore size (mm)	Stroke range (mm)	A	AA	AB	AC	AD	AE	AF	AP	B	C	D	E	F	G	H
20	75,100,125,150,200	99	12	11	16.5	75	30	M5×0.8 depth 10	25	108	24	60	92	5.5	9.5 depth 6	M8×1.25 depth 14
25	75,100, 125,150, 200,300	109	16	13	16.5	85	30	M6×1 depth 12	30	130	26.5	65	113	6.6	11 depth 8	M10×1.5 depth 18
32		129	16	16	18	100	35	M6×1 depth 12	35	135	29	80	118	6.6	11 depth 8	M10×1.5 depth 18
40		152	19	19	22	120	40	M8×1.25 depth 16	45	170	32	100	150	9	14 depth 10	M12×1.75 depth 21
50		182	25	21	22	150	45	M10×1.5 depth 20	50	194	37	120	170	11	17 depth 12	M14×2 depth 25

Bore size (mm)	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
20	30	55	60	80	25	45	M6×1 depth 9	Rc 1/8	21	12	26	12	82	48	40	30	80	157
25	35	65	70	100	35	54	M6×1 depth 13	Rc 1/8	21	12	31	13	100	57	46	37	80	175
32	40	73	80	106	35	60	M6×1 depth 13	Rc 1/8	21	12	38	16	114	65	52	37	82	201
40	50	93	95	134	50	75	M8×1.25 depth 16	Rc 1/8	25	12	47	20	138	84	62	44	92	238
50	55	103	115	152	56	90	M10×1.5 depth 21	Rc 1/4	26	14	58	25	164	94	75	45	104	285

Long Stroke

Bore size (mm)	Stroke range (mm)	R	Y
20	250 to 400	14	88
25	350 to 500	14	88
32	350 to 600	14	90
40	350 to 800	15	101
50	350 to 1000	16	116

Bracket Mounting Stroke

Bore size (mm)	Bracket mounting stroke
20	100 st or more
25	125 st or more
32	150 st or more
40	200 st or more
50	250 st or more

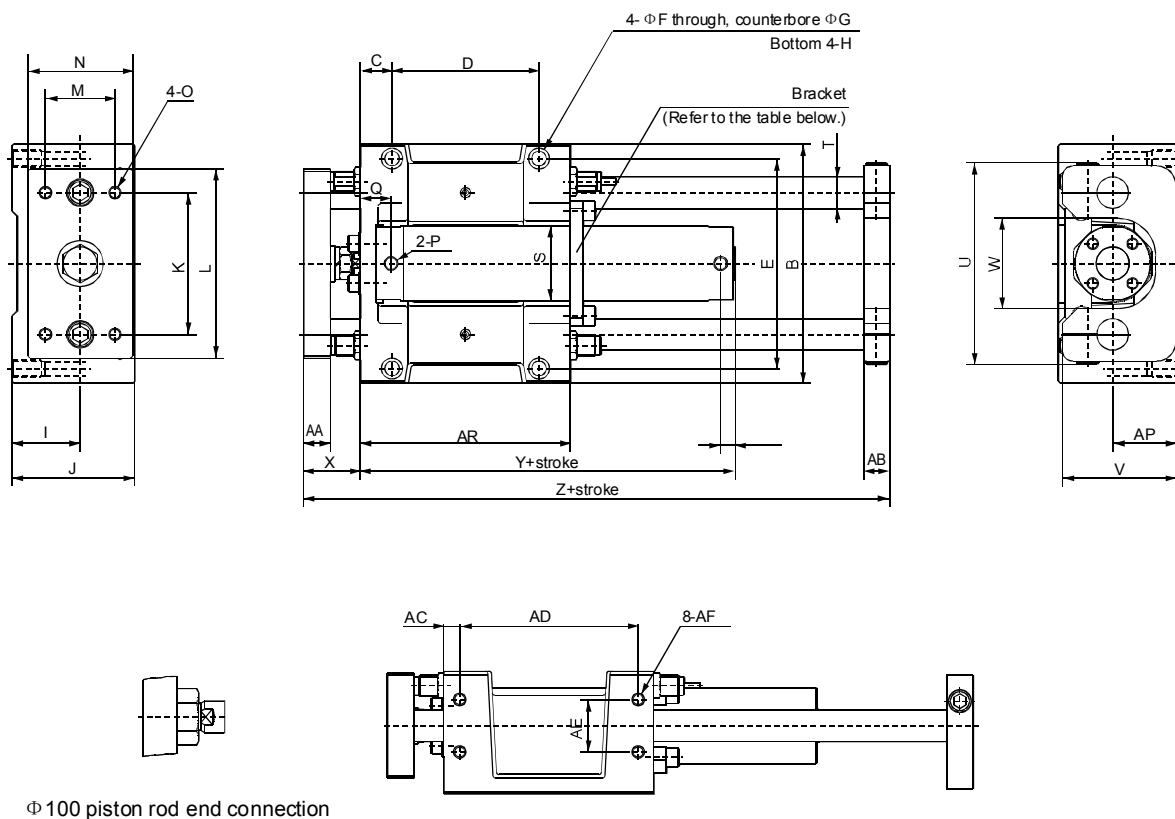
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG**
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Guide Cylinder

Double Acting, Single Rod, Basic Type

Series MGG

MGGMB □-□ Φ 63 to 100
MGGLB □-□ Φ 63 to 100
 (Basic style)



(mm)

Bore size (mm)	Stroke range (mm)	A	AA	AB	AC	AD	AE	AF	AP	B	C	D	E	F	G	H
63	75, 100,	200	25	25	15	170	50	M12×1.75 depth 24	60	228	30	140	200	13.5	20 depth 14.5	M16×2 depth 28
80	125, 150,	230	30	27	15	200	55	M12×1.75 depth 24	70	262	30	170	234	13.5	20 depth 14.5	M16×2 depth 28
100	200, 300	280	32	30	17.5	245	70	M14×2 depth 28	80	304	35	210	274	15	23 depth 17	M18×2.5 depth 32

Bore size (mm)	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
63	65	117	135	180	66	100	M12×1.75 depth 23	Rc 1/4	29	14	72	30	192	108	86	54	107	308
80	75	138	160	214	76	115	M12×1.75 depth 28	Rc 3/8	40	19	89	35	224	128	104	66	131	355
100	85	153	190	245	80	125	M14×2 depth 30	Rc 1/2	40	19	110	40	262	143	128	66	131	410

Long Stroke

Bore size (mm)	Stroke range (mm)	R	Y
63	350 to 1100	16	119
80	350 to 1200	23	145
100	350 to 1300	23	145

Bracket Mounting Stroke

Bore size (mm)	Bracket mounting stroke
63	300 st or more
80	400 st or more
100	500 st or more

Rotary Actuator

Rack & Pinion Style

Series CRA1

◆ How to Order

C D RA1 B S 50 90

Air cushion

Nil	None	C	With air cushion
-----	------	---	------------------

Note): size 30 is not available for "C" type.

Rotating angle

Standard	90	90°
	180	180°
Option	100	100°
	190	190°

Size (mm)

30	50	63	80	100
----	----	----	----	-----

Shaft type

Standard	S	Single shaft
	W	Double shaft
Option	X	Single shaft with four chamfers
	Y	Double shaft key
	Z	Double shaft with four chamfers

Note): size 30 is only available for double shaft.

Mounting style

B	Basic style	L	Foot style	F*	Flange style
---	-------------	---	------------	----	--------------

Magnet

Nil	Without magnet	D	Built-in magnet
-----	----------------	---	-----------------



◆ Specifications

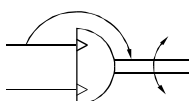
Bore size (mm)	30	50	63	80	100
Fluid	Filtered compressed air				
Proof pressure	1.5 MPa				
Operating pressure range	0.1~1.0 MPa				
Ambient and fluid temperature	0~60°C (No freezing)				
Port size	M5×0.8	Rc1/8		Rc1/4	Rc3/8
Cushion	None	Not attached, Air cushion			
Output (N · m) ⁽¹⁾	1.9	9.3	17	32	74
Mounting style*	Basic style, Foot style, Flange style				

◆ Allowable Kinetic Energy/Safe Range of Rotation Time

Model	Allowable kinetic energy			Adjustable range of rotation time safe in operation
	Allowable kinetic energy (mJ)		Cushion angle	
	Without cushion	With cushion		Rotation time (s/90°)
CRA1□W30	10	-	-	0.2 to 1
CRA1□□50	50	980	35°	0.2 to 2
CRA1□□63	120	1500	35°	0.2 to 3
CRA1□□80	160	2000	35°	0.2 to 4
CRA1□□100	540	2900	35°	0.2 to 5

Note): Allowable kinetic energy of the bumpers equipped model
The maximum absorbed energy under proper adjustment of the cushion needle.

Symbol



I

CJP

CJ1

DNC

DNCB

DNG

C95

SI

CS1

MB

SU

SC

DSNU

C85

CJ2

CM2

MA

MAL

ADVU

CQ2

CQS

SDA

CU

DPZ

CXS

TN

ADVUL

CQM

MGP

MGG

CRA1

CY1B

CS

Auto switch

D

Auto switch

AC,AD

HR

RB

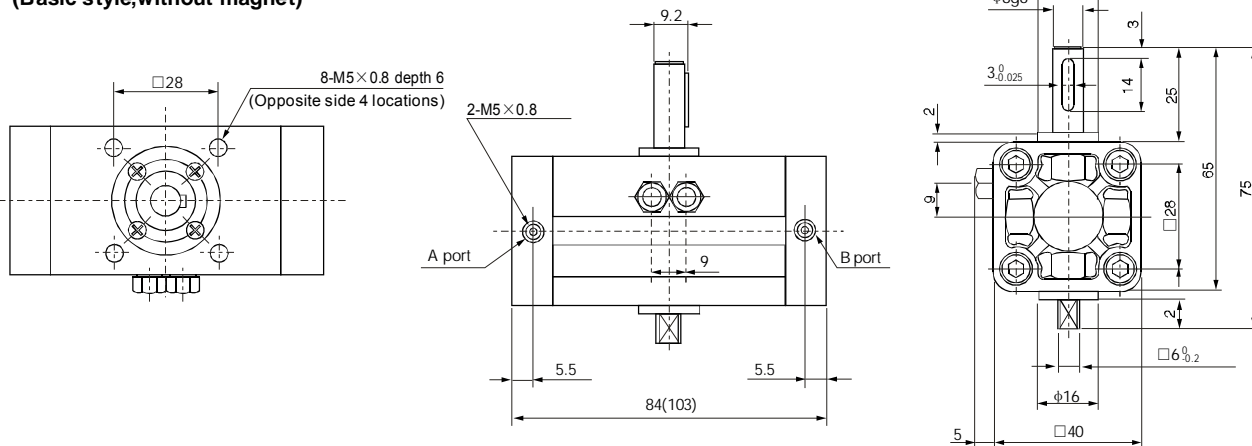
RBQ

Rotary Actuator Rack & Pinion Style Series CRA1

◆ Dimensions

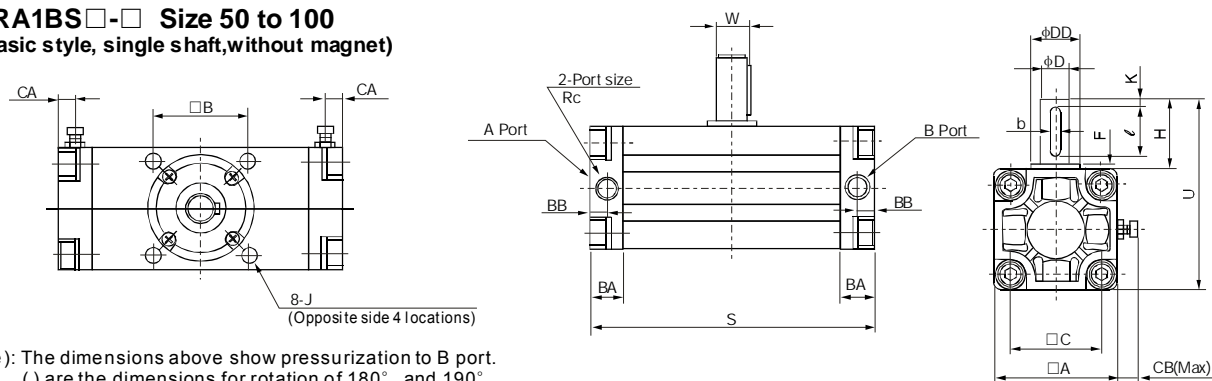
This drawing is for 90° Specifications.

CRA1BW□-□ Size 30 (Basic style, without magnet)



Note: () are the dimensions for rotation of 180° and 190° .

CRA1BS□-□ Size 50 to 100 (Basic style, single shaft, without magnet)



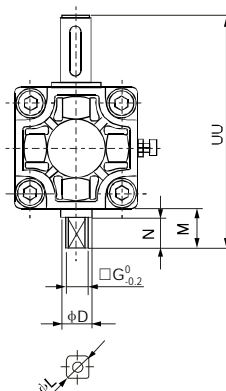
Note): The dimensions above show pressurization to B port.
() are the dimensions for rotation of 180° and 190° .
* For model with air cushion.

Model	Port size Rc	A	B	C	D (g6)	DD (h9)	F	H	J	K	S	U	W	BA	BB	CA	CB	Keyway dimensions	
																		b	ℓ
CRA1BS50	1/8	62	48	46	15	25	2.5	36	M8 x 1.25 Depth 8	5	144 (177)	98	17	17	8.5	8.5	13	5 ⁰ _{-0.030}	25
CRA1BS63	1/8	76	60	57	17	30	2.5	41	M10 x 1.5 Depth 12	5	163 (201.5)	117	19.5	20	10	10	14	6 ⁰ _{-0.030}	30
CRA1BS80	1/4	92	72	70	20	35	3	50	M12 x 1.75 Depth 13	5	186 (230)	142	22.5	23.5	12	12	18	6 ⁰ _{-0.030}	40
CRA1BS100	3/8	112	85	85	25	40	4	60	M12 x 1.75 Depth 14	5	245 (311)	172	28	25	12.5	12.5	18	8 ⁰ _{-0.036}	45

CRA1BW□-□ Size 50 to 100 (Basic style, double shaft, without magnet)

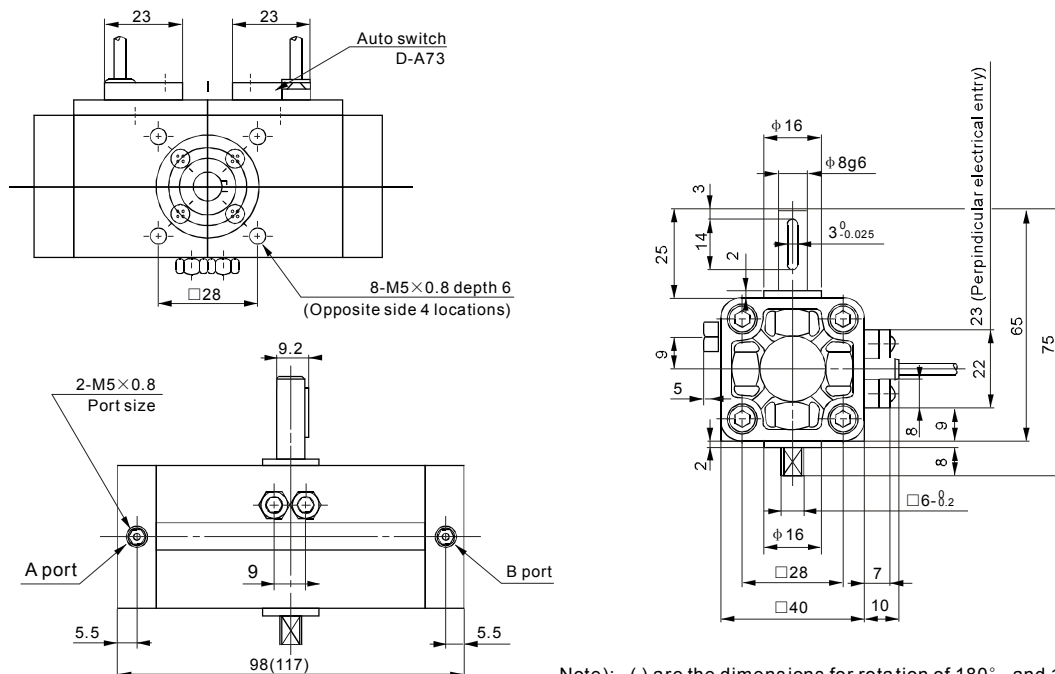
Model	D(g6)	G	M	N	UU	L
CRA1BW50	15	11	20	15	118	14
CRA1BW63	17	13	22	17	139	16
CRA1BW80	20	15	25	20	167	19
CRA1BW100	25	19	30	25	202	24

Note): Other dimensions are the same as the single shaft.



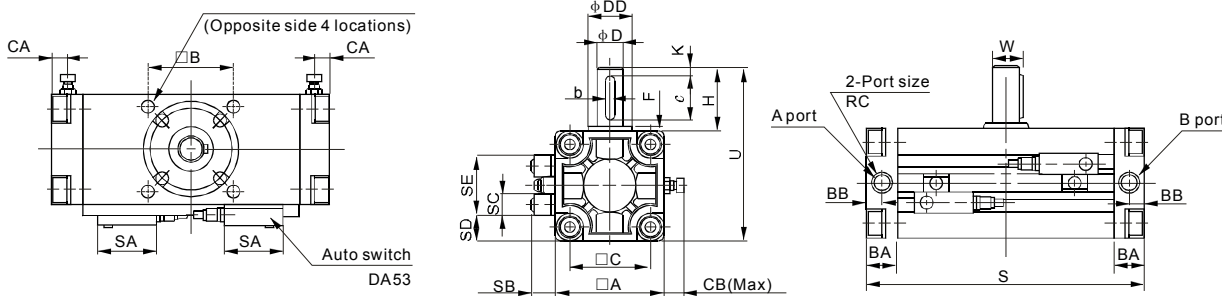
Rotary Actuator Rack & Pinion Style Series CRA1

CDRA1BW□-□ Size 30 (Basic style, without magnet)



Note: () are the dimensions for rotation of 180° and 190° .

CDRA1BS□-□ Size 50 to 100 (Basic style, single shaft, built-in magnet)



Note: The dimensions above show pressurization to B port.
() are the dimensions for rotation of 180° and 190° .
* For model with air cushion.

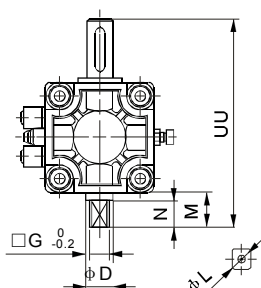
Single shaft type

Model	Port size Rc	A	B	C	D (g6)	DD (h9)	F	H	J	K	S	U	W	BA	BB	CA	CB	SA	SB	SC	SD	SE	Keyway dimensions	
																							b	e
CDRA1BS50	1/8	62	48	46	15	25	2.5	36	M8×1.25 depth 8	5	156(189)	98	17	17	8.5	8.5	13	33	13.5	12	14	34	5 ^{0.030}	34
CDRA1BS63	1/8	76	60	57	17	30	2.5	41	M10×1.5 depth 12	5	175(213.5)	117	19.5	20	10	10	14	33	14.5	12	21	34	6 ^{0.030}	34
CDRA1BS80	1/4	92	72	70	20	35	3	50	M12×1.75 depth 13	5	199(243)	142	22.5	23.5	12	12	18	33	15.5	12	29	34	6 ^{0.030}	34
CDRA1BS100	3/8	112	85	85	25	40	4	60	M12×1.75 depth 14	5	259(325)	172	28	25	12.5	12.5	18	33	16	12	39	34	8 ^{0.036}	34

CDRA1BW□-□ Size 50 to 100 (Basic style, double shaft, built-in magnet)

Double shaft type:

Size	D(g6)	G	M	N	UU	L
50	15	11	20	15	118	14
63	17	13	22	17	139	16
80	20	15	25	20	167	19
100	25	19	30	25	202	24



Note: Other dimensions are the same as the single shaft.

I

- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA 1**
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Rodless Cylinder

Basic Type

Series CY1B

◆ How to Order

CY1 B **25** **H** - **300**

Standard stroke

* Refer to "standard stroke" .

Magnetic holding force

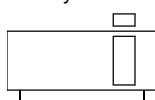
* Refer to "magnet holding force" .

Bore size

6	10	15	20	25
32	40	50	63	



Symbol



◆ Specifications

	6	10	15	20	25	32	40	50	63
Fluid	Filtered compressed air								
Proof pressure	1.05 MPa								
Operating pressure range	0.18 ~0.7 MPa								
Ambient and fluid temperature	-10~60℃ (No freezing)								
Piston speed	50~400 mm/s								
Port size	M5×0.8			Rc1/8			Rc1/4		
Cushion	Rubber bumpers at both ends								
Mounting orientation	Unrestricted								
Mounting nuts(2pcs.)	Standard equipment(Accessory)								

◆ Standard Stroke

Bore size (mm)	Standard stroke(mm)	Maximum ⁽¹⁾ available stroke(mm)
6	50,100,150,200	300
10	50,100,150,200,250,300	500
15	50,100,150,200,250,300,350,400,450,500	1000
20	100,150,200,250,300,350,400,450,500,600,700,800	2000
25		4000
32		5000
40	100,150,200,250,300,350,400,450,500,600,700,800,900,1000	5000
50		6000
63		6000

Note 1): Contact AIRBEST if the maximum stroke will be exceeded.

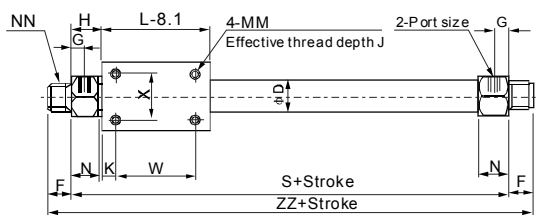
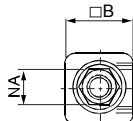
◆ Magnetic Holding Force(N)

Bore size(mm)		6	10	15	20	25	32	40	50	63
Holding force	H type	19.6	53.9	137	231	363	588	922	1471	2256
	L type	-	-	81.4	154	221	358	569	863	1373

Rodless Cylinder Basic Type Series CY1B

◆ Dimensions (Basic Type)

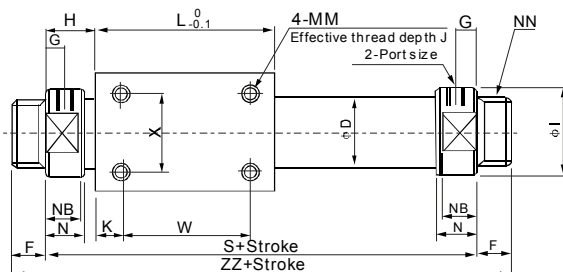
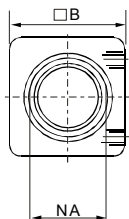
CY1B□H□ φ 6 to 15
(Basic style)



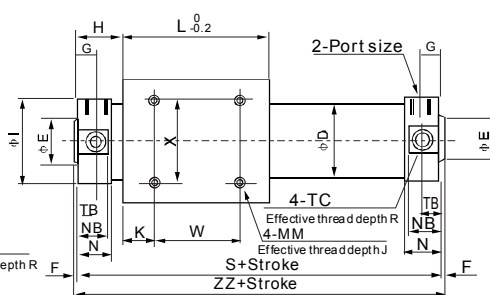
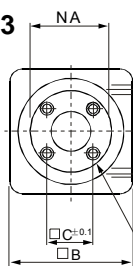
Model	Port size	D	B	F	G	H	K	L	N	NA	MM×J	NN	S	W	X	ZZ
CY1B6	M5×0.8	7.6	17	9	5	14	5	35	10	14	M3×0.5×4.5	M10×1.0	63	25	10	81
CY1B10	M5×0.8	12	25	9	5	12.5	4	38	11	14	M3×0.5×4.5	M10×1.0	63	30	16	81
CY1B15	M5×0.8	17	35	10	5.5	13	11	57	11	17	M4×0.7×6	M10×1.0	83	35	19	103

(mm)

CY1B□H□ φ 20 to 40
(Basic style)



CY1B□H□ φ 50, 63
(Basic style)

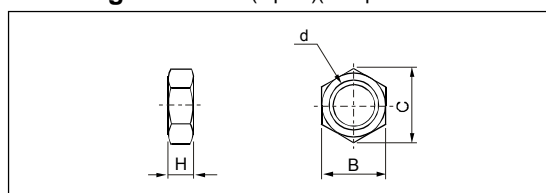


Model	Port size	B	C	D	E	F	G	H	I	K	L	MM×J	N	NA	NB	NN
CY1B20	Rc(PT)1/8	36	-	22.7	-	13	8	20	28	8	66	M4×0.7×6	15	24	13	M20×1.5
CY1B25	Rc(PT)1/8	46	-	27.8	-	13	8	20.5	34	10	70	M5×0.8×8	15	30	13	M26×1.5
CY1B32	Rc(PT)1/8	60	-	35	-	16	9	22	40	15	80	M6×1.0×8	17	36	15	M26×1.5
CY1B40	Rc(PT)1/4	70	-	43	-	16	11	29	50	16	92	M6×1.0×10	21	46	19	M32×2.0
CY1B50	Rc(PT)1/4	86	32	53	30 ^{-0.007} _{-0.037}	2	14	33	58.2	25	110	M8×1.25×12	25	55	23	-
CY1B63	Rc(PT)1/4	100	38	66	32 ^{-0.007} _{-0.043}	2	14	33	72.2	26	122	M8×1.25×12	25	69	23	-

(mm)

Model	Q X R	S	TB	TC X R	W	X	ZZ
CY1B20	-	106	-	-	50	25	132
CY1B25	-	111	-	-	50	30	137
CY1B32	-	124	-	-	50	40	156
CY1B40	-	150	-	-	60	40	182
CY1B50	M8×1.25×16	176	14	M12×1.25×7.5	60	60	180
CY1B63	M10×1.5×16	188	14	M14×1.5×11.5	70	70	192

Mounting nut included (2 pcs.) (except for φ 50 and φ 63)



Part No.	Bore size(mm)	d	H	B	C
SNJ-016B	6,10,15	M10×1.0	4	14	16.2
SN-020B	20	M20×1.5	8	26	30
SN-032B	25,32	M26×1.5	8	32	37
SN-040B	40	M32×2.0	10	41	47.3

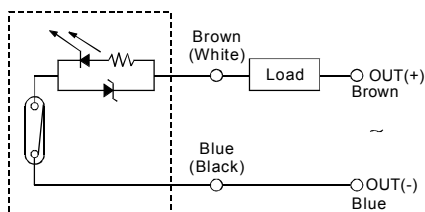
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B**
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Auto Switch Series CS

◆ How to Order

CS1 — G

Auto Switch Internal Circuit



Type

F	Lamp in front position type
U	Lamp in upper position type
S	Mini type
J	Standard type
G	Bury-in type

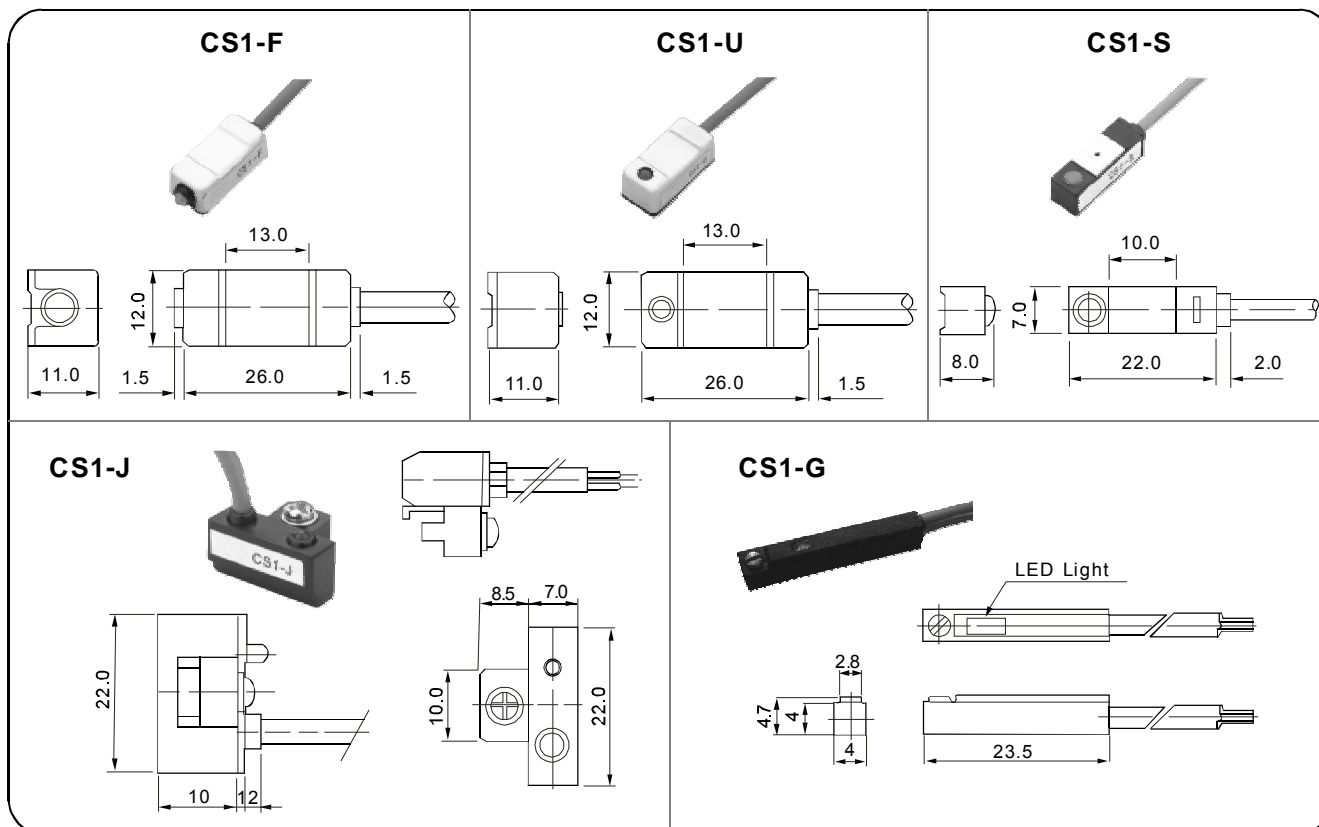
Model

CS1	Auto Switch
-----	-------------

◆ Specifications

Auto switch	Operating voltage range	Operating current range	Response time	Shock resistance	Vibration resistance	Temperature range	Environmental protection	Indicator lamp	Lead wire	Cycle life time	Applicable cylinder series
CS1-F	DC:5V~240V AC:5V~380V	DC:5~60mA AC:5~50mA	1ms (Max.)	300m/S ² (30G)	10~55 (Hz)	0~60℃	IP-67	LED	2M	≥5×10 ⁶ times	SI,SU,SC MI,MF, MA,MAL,
CS1-U	DC:5V~240V AC:5V~380V	DC:5~60mA AC:5~50mA	1ms (Max.)	300m/S ² (30G)	10~55 (Hz)	0~60℃	IP-67	LED	2M	≥5×10 ⁶ times	SI,SU,SC MI,MF, MA,MAL,
CS1-S	DC:5V~240V AC:5V~240V	DC:5~50mA AC:5~40mA	1ms (Max.)	300m/S ² (30G)	10~55 (Hz)	0~60℃	IP-67	LED	2M	≥5×10 ⁶ times	MI,PB,MF, MA,MAL
CS1-J	DC:5V~240V AC:5V~240V	DC:5~50mA AC:5~40mA	0.3ms (Max.)	300m/S ² (30G)	10~55 (Hz)	0~60℃	IP-67	LED	2M	≥5×10 ⁶ times	ACQ, SDA, TN
CS1-G	DC:5V~240V AC:5V~240V	DC:5~50mA AC:5~40mA	0.3ms (Max.)	300m/S ² (30G)	10~55 (Hz)	0~60℃	IP-67	LED	2M	≥5×10 ⁶ times	ACQ, SDA,MD, MK,STM

◆ Dimensions



Auto Switch

Reed Switch Type: Band Mounting Style

Series D-C73



◆ Auto Switch Specifications

PLC: Abbreviation of Programmable Logic Controller

Auto switch model	D-C73	
Applicable load	Relay, PLC	
Load voltage	24 VDC	100 VAC
Max. load current and range ⁽¹⁾	5 to 40 mA	5 to 20 mA
Contact protection circuit	None	
Internal voltage drop	2.4V or less	
Indicator light	Red LED lights when ON.	

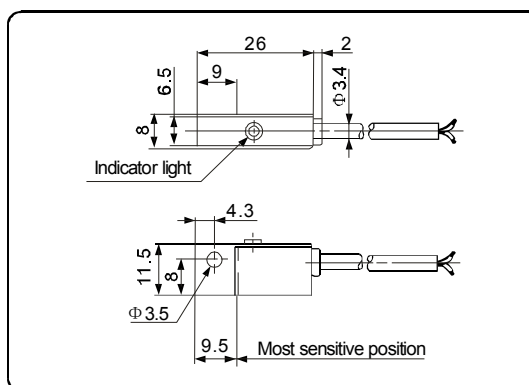
* Lead wire-Oil resistant vinyl heavy-duty cord, Φ 3.4, 0.2mm², 3 cores(Brown, Black, Blue), 2 cores(Brown, Blue),0.5m.

* Note(1): Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

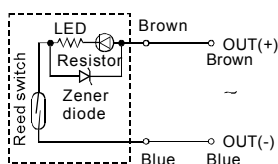
◆ Weight

Auto switch model	D-C73	
Lead wire length (m)	0.5	9
	3	46
	5	76

◆ Dimensions



Auto Switch Internal Circuit



Auto Switch

Reed Switch Type: Band Mounting Style

Series D-A73



◆ Auto Switch Specifications

PLC: Abbreviation of Programmable Logic Controller

Auto switch model	D-A73	
Applicable load	Relay, PLC	
Load voltage	24 VDC	100 VAC
Load current range ⁽¹⁾	5 to 40 mA	5 to 20 mA
Contact protection circuit	None	
Internal voltage drop	2.4V or less	
Indicator light	Red LED lights when ON.	

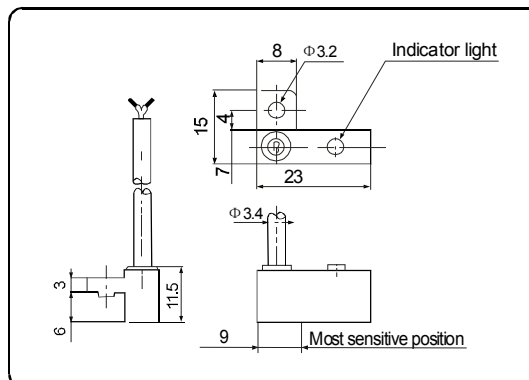
* Lead wire-Oil resistant vinyl heavy-duty cord, Φ 3.4, 0.2mm², 2 cores(Brown, Blue),0.5m.

* Note(1): Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

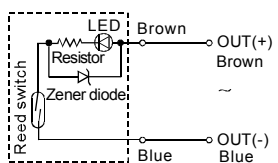
◆ Weight

Auto switch model	D-A73	
Lead wire length (m)	0.5	10
	3	47
	5	77

◆ Dimensions



Auto Switch Internal Circuit

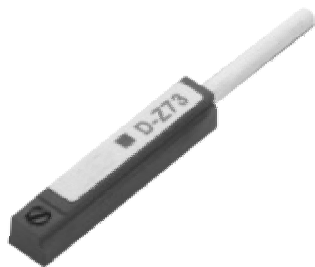


- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Auto Switch

Reed Switch Type: Direct Mounting Style

Series D-Z73



◆ Auto Switch Specifications

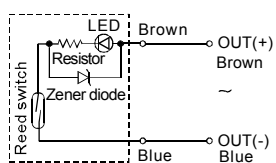
PLC: Abbreviation of Programmable Logic Controller

Auto switch model	D-Z73	
Applicable load	Relay, PLC	
Load voltage	24 VDC	100 VAC
Max.load current and load current range ⁽¹⁾	5 to 40 mA	5 to 20 mA
Contact protection circuit	None	
Internal voltage drop	2.4V or less(to 20mA) / 3V or less(to 40mA)	
Indicator light	Red LED lights when ON.	

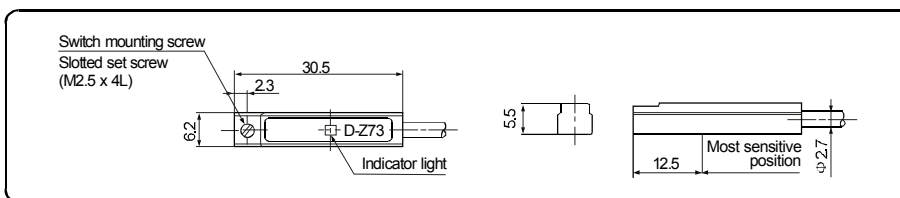
◆ Weight

Auto switch model	D-Z73	
Lead wire length (m)	0.5	7
	3	31
	5	50

Auto Switch Internal Circuit



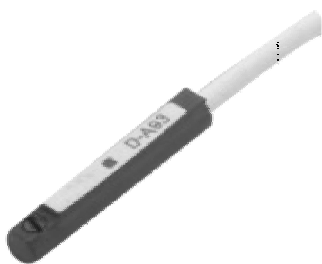
◆ Dimensions



Auto Switch

Reed Switch Type: Direct Mounting Style

Series D-A93

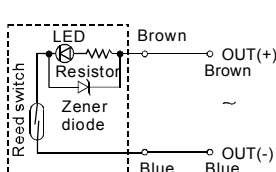


◆ Auto Switch Specifications

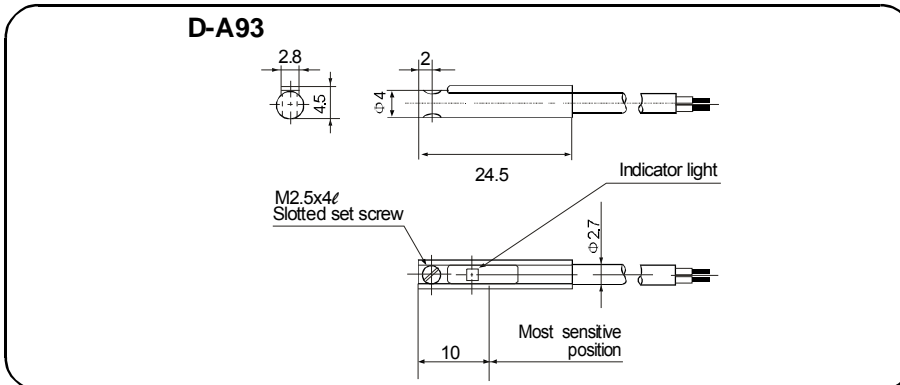
PLC: Abbreviation of Programmable Logic Controller

Auto switch model	D-A93	
Applicable load	Relay, PLC	
Load voltage	24 VDC	100 VAC
Load current range and ⁽¹⁾ Maximum load current	5 to 40 mA	5 to 20 mA
Contact protection circuit	None	
Internal voltage drop	D-A93: 2.4V or less(up to 20 mA)/3V or less(up to 40 mA)	
Indicator light	Red LED lights when ON.	

Auto Switch Internal Circuit



◆ Dimensions



◆ Weight

Model	D-A93
Lead wire length:0.5m	6
Lead wire length:3m	30

Auto Switch

Reed Switch Type: Tie-rod Mounting Style

Series D-A54



D-A54

◆ Auto Switch Specifications

PLC: Abbreviation of Programmable Logic Controller

Auto switch part model	D-A54		
Applicable load	Relay, PLC		
Load voltage	24 VDC	100 VAC	200 VAC
Maximum load ⁽¹⁾ current and range	5 to 50 mA	5 to 25 mA	5 to 12.5 mA
Contact protection circuit	Built-in		
Internal voltage drop	2.4V or less(to 20mA) / 3.5V or less(to 40mA)		
Indicator light	Red LED lights when ON.		

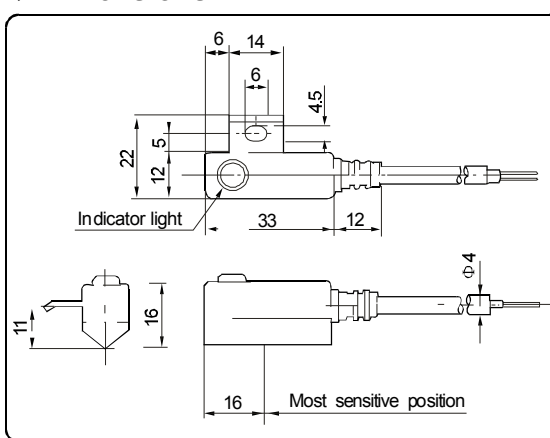
* Lead wire-Oil resistant vinyl heavy-duty cord, $\Phi 4$, 0.3mm², 2 cores(Brown, Blue), or 0.2mm 3 cores(Brown, Black, Blue), 0.5m.

* Note(1): Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

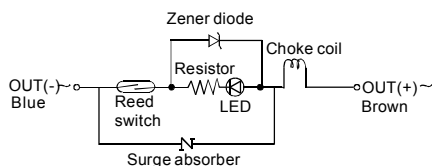
◆ Weight

Auto switch model	D-A54	
Lead wire length (m)	0.5	24
	3	48
	5	96

◆ Dimensions



Auto Switch Internal Circuit



I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS
Auto switch
D
Auto switch
AC,AD
HR
RB
RBQ

Shock Absorber

Series AC, AD



◆ How to Order

AC - 14 16 - 1 - N

Cap

Nil	With cap	N	Without cap
-----	----------	---	-------------

Collision speed

1	high speed	2	mid speed	3	low speed
---	------------	---	-----------	---	-----------

Stroke absorption

O.D. thread

Series

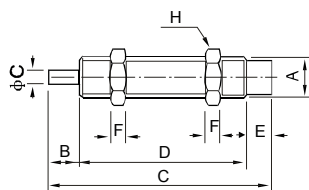
AC	Sely expiation type
AD	Adjustment type

◆ Specifications

Item	Stroke (mm)	Max.energy absorpthon (Nm)	Hour.energy absorpthon (Nm)	Max.effective weight(kg)			Max.codlision speed(m/s)			Ambient and fluid temperature	Weight (g)
				1	2	3	1	2	3		
AC-0806	6	2	1200	0.5	2	6	2	1	0.5	-10~80°C	11
AC-1005	5	3	3600	1	3	7	3	1.5	0.8	-10~80°C	14
AC-1008	8	4	5000	2	4	9	3	1.5	0.8	-10~80°C	20
AC-1210	10	5	10000	5	10	30	2	1.5	0.8	-10~80°C	31.5
AC-1412	12	15	30000	8	50	100	3	1.5	0.8	-10~80°C	80
AC-1416	16	20	35000	10	70	150	3	1.5	0.8	-10~80°C	90
AC-2020	20	40	40000	30	200	700	3.5	2	1	-10~80°C	215
AC-2050	50	60	60000	60	400	1200	3.5	2	1	-10~80°C	300
AC-2525	25	80	70000	200	800	1500	4	2.5	1	-10~80°C	330
AC-2540	40	120	75000	300	1200	2000	4	2.5	1	-10~80°C	430
AC-3660	60	250	120000	400	1500	2400	4	2.5	1	-10~80°C	1030
AD-1410	10	20	25000	80			3			-10~80°C	90
AD-2016	16	25	30000	200			3.5			-10~80°C	230
AD-2525	25	85	70000	400			3.5			-10~80°C	350
AD-2540	40	100	80000	700			3.5			-10~80°C	455
AD-3650	50	300	100000	1400			3			-10~80°C	1100
AD-4225	25	260	125000	3000			3.5			-10~80°C	1280
AD-4250	50	500	150000	4000			4.5			-10~80°C	1495
AD-4275	75	750	180000	6000			4.5			-10~80°C	1710
AD-6450	50	12000	1500000	12727			1.5			-10~80°C	4115
AD-64100	100	24000	2000000	18181			1.5			-10~80°C	5280
AD-64150	150	36000	2500000	23636			1.5			-10~80°C	6785

◆ Dimensions

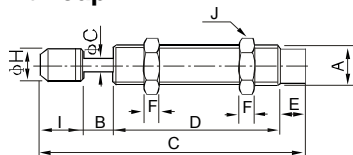
Without cap



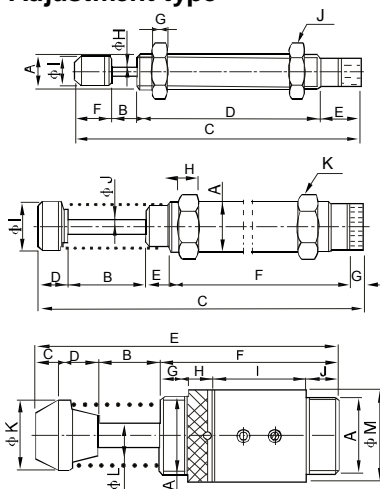
Model/Symbol	A	B	C	D	E	F	G	H
AC-0806	M8×1.0	6	44	33	5	3	2.8	11
AC-1005	M10×1.0	5	32.7	22.9	4.8	3	3	12.7
AC-1008	M10×1.0	8	51	38	5	3	3	12.7
AC-1210	M12×1.0	10	60	45.5	4.5	4	3	14
AC-1412	M14×1.5	12	88	67	9	6	4	19
AC-1416	M14×1.5	16	111	86	9	6	4	19

Shock Absorber Series AC, AD

With cap



Adjustment type



Model/Symbol	A	B	C	D	E	F	G	H	I	J
AC-0806	M8×1.0	6	52.4	33	5	3	2.8	6.6	8.4	11
AC-1005	M10×1.0	5	41.5	22.9	4.8	3	3	8.6	8.5	12.7
AC-1008	M10×1.0	8	59.5	38	5	3	3	8.6	8.5	12.7
AC-1210	M12×1.0	10	69.5	45.5	4.5	4	3	10.3	9.5	14
AC-1412	M14×1.5	12	102.5	67	9	6	4	12	14.5	19
AC-1416	M14×1.5	16	125.5	125.5	9	6	4	12	14.5	19
AC-2020	M20×1.5	20	146.5	146.5	9	8	9	18	16.5	26
AC-2050	M20×1.5	50	233.5	158	9	8	9	18	16.5	26
AC-2525	M25×1.5	25	154.3	101	10	10	8	22	18.3	32
AC-2540	M25×1.5	40	208.3	127	10	10	8	22	31.3	32
AC-3660	M36×1.5	60	243	134	11	15	10	35	21	46

Model/Symbol	A	B	C	D	E	F	G	H	I	J
AD-1410	M14×1.5	10	113.5	73	16	14.5	6	4	12	19
AD-2016	M20×1.5	16	149.5	101	16	16.5	8	6	18	26
AD-2525	M25×1.5	25	161.8	101	17.5	18.3	10	8	22	32
AD-2540	M25×1.5	40	215.8	127	17.5	31.3	10	8	22	32

Model/Symbol	A	B	C	D	E	F	G	H	I	J	K
AD-3650	M36×1.5	50	242	21	17	146	8	15	35	10	46
AD-4225	M42×1.5	25	186.6	34	26	104.5	5	15	44.5	12	50
AD-4250	M42×1.5	50	241	34	26	134	5	15	44.5	12	50
AD-4275	M42×1.5	75	301.5	39	26	164.5	5	15	44.5	12	50

Model/Symbol	A	B	C	D	E	F	G	H	I	J	K	L
AD-6450	2½-UNF(63.5)	50	18.8	33	247.8	146	23	20	77	26	59	20
AD-64100	2½-UNF(63.5)	100	18.8	33	347.8	196	23	20	127	26	59	20
AD-64150	2½-UNF(63.5)	150	18.8	43	467.8	256	23	20	187	26	59	20

Accessories

◆ How to Order

SC - 12

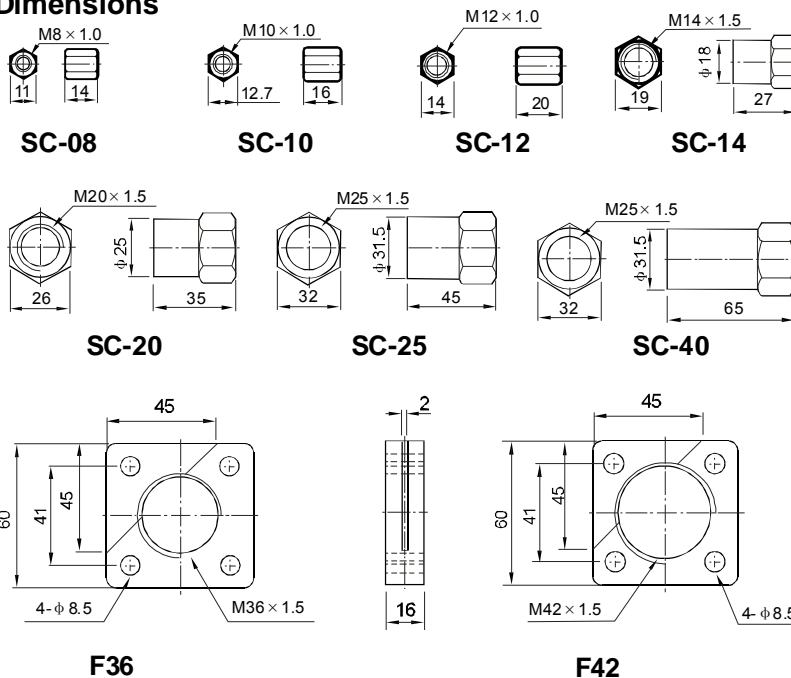
I.D. thread

Series

SC Stopper nut

* SC: M8~M36
F: M36~M42

◆ Dimensions



◆ Specifications

Item	SC-08	SC-10	SC-12	SC-14	SC-20	SC-25	SC-40	SC-50	F36	F42
Model	AC-0806	AC-1005 AC-1008	AC-1210	AC-1412 AC-1416 AD-1410	AC-2020 ACD-2030 AC-2050 AD-2015	AC-2525 AD-2525	AC-2540 AD-2525	AC-3660 AD-3650	AC-3660 AD-3650	AD-4225 AD-4250 AD-4275

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

Shock Absorber Series HR



◆ How to Order

HR - 30

Stroke absorpton

30	30mm	60	60mm
----	------	----	------

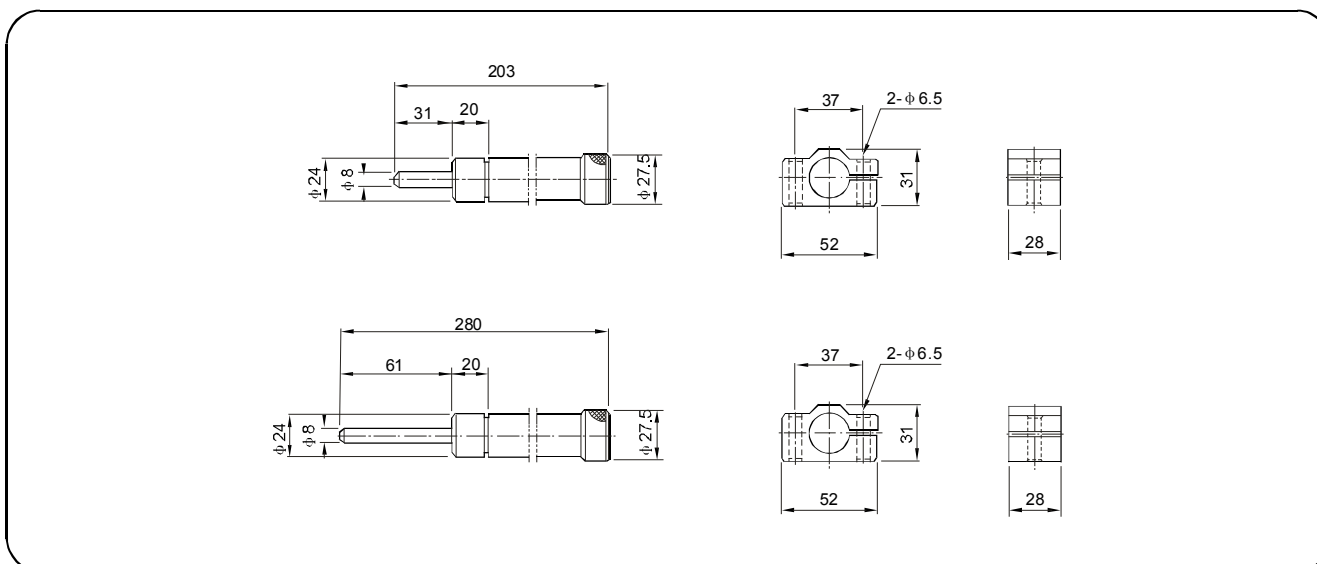
Series

HR	Adjustment type
----	-----------------

◆ Specifications

Item	Max.stroke	Max.load	Adjustment speed range	Admit collision power	Ambient and fluid temperature
HR30	30mm	150~5500N	0.5~3.0m/s (1000N)	2.3Nm	-10~80°C(No freezing)
HR60	60mm				

◆ Dimensions

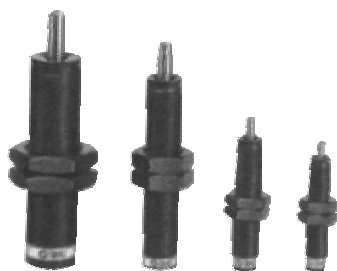


Shock Absorber

Standard type

Series RB

◆ How to Order



Basic type

RB **C** **14** **12** **□**

Option

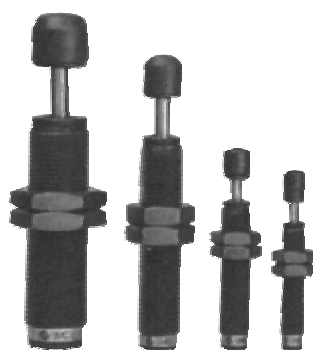
Nil	None
S	With stopper nut
J	Add' 1 hex, nut(Total: 3pcs.*)

* 2 mounting hexagon nuts are attached as standard.

O.D thread-Stroke absorption

Cushion

Nil	Basic type	C	With cap
-----	------------	---	----------



With cap

Replacement part no./Cap(Resin part only)

RBC **08** **C**

Cap

Applicable model

08	RBC0805,0806	10	RBC1006,1007
14	RBC1411,1412	20	RBC2015
27	RBC2725		

* Cap cannot be mounted for basic type. Please place an order with cap type from the beginning.

◆ Specifications

Model	Basic type	RB0805	RB0806	RB1006	RB1007	RB1411	RB1412	RB2015	RB2725
	With cap	RBC0805	RBC0806	RBC1006	RBC1007	RBC1411	RBC1412	RBC2015	RBC2725
Max. energy absorption (J)		0.98	2.94	3.92	5.88	14.7	19.6	58.8	147
Stroke absorption (mm)		5	6	6	7	11	12	15	25
Collision speed (m/s)		0.05~ 5.0							
Max. operating frequency*(cycle/min)		80	80	70	70	45	45	25	10
Max. allowable thrust (N)		245	245	422	422	814	814	1961	2942
Ambient temperature range		-10~80°C (No freezing)							
Spring force(N)	Extended	1.96	1.96	4.22	4.22	6.86	6.86	8.34	8.83
	Retracted	3.83	4.22	6.18	6.86	15.30	15.98	20.50	20.01
Weight (g)	Basic type	15	15	23	23	65	65	150	350
	With cap	16	16	25	25	70	70	165	400

* It denotes the values at the maximum energy absorption per one cycle.
Max. operation cycle/min can increase in proportion to energy absorption.

I
CJP
CJ1
DNC
DNCB
DNG
C95
SI
CS1
MB
SU
SC
DSNU
C85
CJ2
CM2
MA
MAL
ADVU
CQ2
CQS
SDA
CU
DPZ
CXS
TN
ADVUL
CQM
MGP
MGG
CRA1
CY1B
CS Auto switch
D Auto switch
AC,AD
HR
RB
RBQ

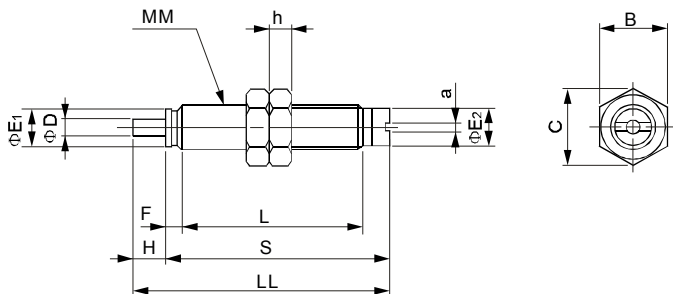
Shock Absorber

Standard type

Series RB

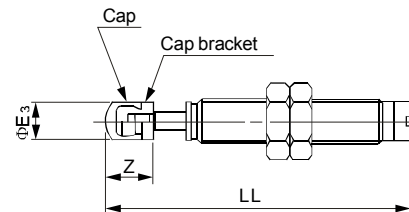
◆ Dimensions

Basic type: RB0805, RB0806, RB1006, RB1007



**With cap: RBC0805, RBC0806
RBC1006, RBC1007**

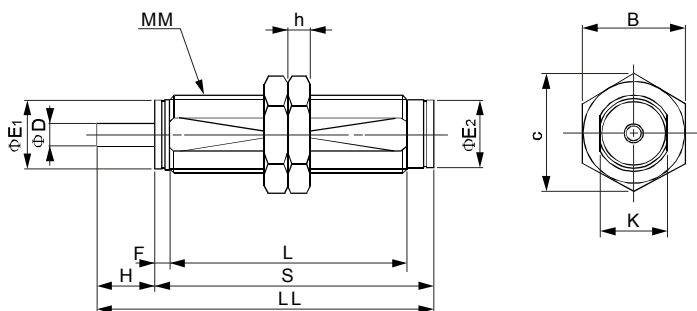
* Other dimensions are the same as the basic type.



(mm)

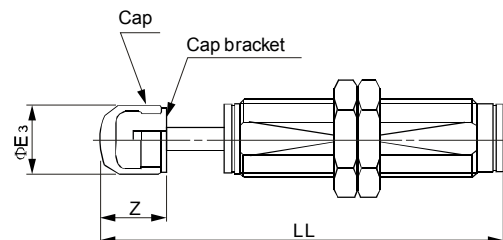
Model		Basic type dimensions								With cap*				Hexagon nut			
Basic type	With cap	D	E1	E2	F	H	a	L	LL	MM	S	E3	LL	Z	B	C	h
RB0805	RBC0805	2.8	6.8	6.8	2.4	5	1.4	33.4	45.8	M8×1.0	40.8	6.8	54.3	8.5	12	13.9	4
RB0806	RBC0806	2.8	6.8	6.8	2.4	6	1.4	33.4	46.8	M8×1.0	40.8	6.8	55.3	8.5	12	13.9	4
RB1006	RBC1006	3	8.8	8.6	2.7	6	1.4	39	52.7	M10×1.0	46.7	8.7	62.7	10	14	16.2	4
RB1007	RBC1007	3	8.8	8.6	2.7	7	1.4	39	53.7	M10×1.0	46.7	8.7	63.7	10	14	16.2	4

Basic type: RB1411, RB1412, RB2015, RB2725



**With cap: RBC1411, RBC1412
RBC2015, RBC2725**

* Other dimensions are the same as the basic type.

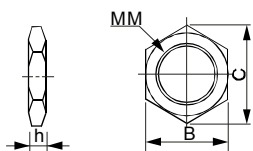


(mm)

Model		Basic type dimensions								With cap*				Hexagon nut			
Basic type	With cap	D	E1	E2	F	H	K	L	LL	MM	S	E3	LL	Z	B	C	h
RB1411	RBC1411	5	12.2	12	3.5	11	12	58.8	78.3	M14×1.5	67.3	12	91.8	13.5	19	21.9	6
RB1412	RBC1412	5	12.2	12	3.5	12	12	58.8	79.3	M14×1.5	67.3	12	92.8	13.5	19	21.9	6
RB2015	RBC2015	6	18.2	18	4	15	18	62.2	88.2	M20×1.5	73.2	18	105.2	17	27	31.2	6
RB2725	RBC2725	8	25.2	25	5	25	25	86	124	M27×1.5	99	25	147	23	36	41.6	6

Hexagon Nut

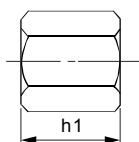
(2 pcs. standard equipment)



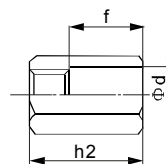
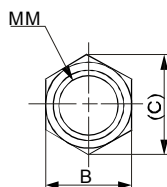
Option

Stopper nut

For basic type

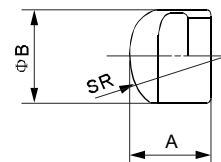


For cap type



Replacement Parts

Cap



These are the replacement part for the cap type. Not available for the basic type.

(mm)

Part no.	Dimensions			
	MM	h	B	C
RB08J	M8×1.0	4	12	13.9
RB10J	M10×1.0	4	14	16.2
RB14J	M14×1.5	6	19	21.9
RB20J	M20×1.5	6	27	31.2
RB27J	M27×1.5	6	36	41.6

(mm)

Part no.		Dimensions						
Basic type	With cap	B	C	h1	h2	MM	d	f
RB08S	RBC08S	12	13.9	6.5	23	M8×1.0	9	15
RB10S	RBC10S	14	16.2	8	23	M10×1.0	11	15
RB14S	RBC14S	19	21.9	11	31	M14×1.5	15	20
RB20S	RBC20S	27	31.2	16	40	M20×1.5	23	25
RB27S	RBC27S	36	41.6	22	51	M27×1.5	32	33

Material: Polyurethane (mm)

Part no.	Dimensions		
	A	B	SR
RBC08C	6.5	6.8	6
RBC10C	9	8.7	7.5
RBC14C	12.5	12	10
RBC20C	16	18	20
RBC27C	21	25	25

Shock Absorber

Short Type

Series RBQ

◆ How to Order

RB Q C 20 07



Option

Nil	None
S	With stopper nut
J	Add' 1 hex, nut(Total: 3pcs.*)

* 2 mounting hexagon nuts are attached as standard.

O.D thread-Stroke absorption

Bumper cannot be mounted for basic type. Please place an order with bumper type from the beginning.

Cushion

Nil	Basic type	C	With bumper
-----	------------	---	-------------

Short type

Replacement part no./Bumper

RBQC 16 C

Bumper

Applicable model

16	RBQC 1604	20	RBQC2007
25	RBQC2508	30	RBQC3009
32	RBQC3213		

◆ Specifications

Model	Basic type	RBQ1604	RBQ2007	RBQ2508	RBQ3009	RBQ3213
	With cap	RBQC1604	RBQC2007	RBQC2508	RBQC3009	RBQC3213
Max. energy absorption (J)		1.96	11.8	19.6	33.3	49.0
Stroke absorption (mm)		4	7	8	8.5	13
Collision speed (m/s)		0.05~3				
Max. operating frequency*(cycle/min)		60	60	45	45	30
Max. allowable thrust (N)		294	490	686	981	1177
Ambient temperature range		-10~80°C (No freezing)				
Spring force(N)	Extended	6.08	12.75	15.69	21.57	24.52
	Retracted	13.45	27.75	37.85	44.23	54.23
Weight (g)		28	60	110	182	240
Option/Stopper nut		RBQ16S	RB20S	RBQ25S	RBQ30S	RBQ32S

* It denotes the values at the maximum energy absorption per one cycle. Therefore, the operating frequency can be increased according to the energy absorption.

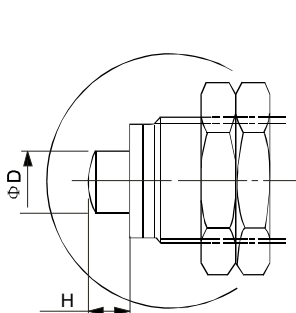
- I
- CJP
- CJ1
- DNC
- DNCB
- DNG
- C95
- SI
- CS1
- MB
- SU
- SC
- DSNU
- C85
- CJ2
- CM2
- MA
- MAL
- ADVU
- CQ2
- CQS
- SDA
- CU
- DPZ
- CXS
- TN
- ADVUL
- CQM
- MGP
- MGG
- CRA 1
- CY1B
- CS
Auto switch
- D
Auto switch
- AC,AD
- HR
- RB
- RBQ

Shock Absorber

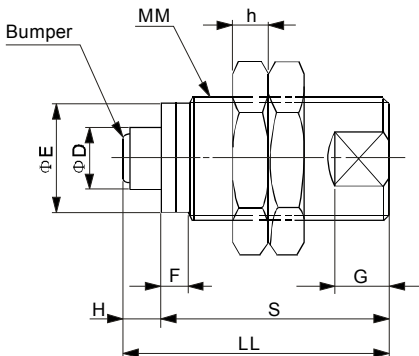
Short Type

Series RBQ

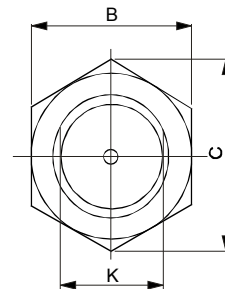
◆ Dimensions



Series RBQ
Basic type



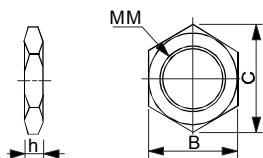
Series RBQC
With bumper



Model		Shock absorber									Hexagon nut		
Basic type	With bumper	D	E	F	H	K	G	LL	MM	S	B	C	h
RBQ1604	RBQC1604	6	14.2	3.5	4	14	7	31	M16×1.5	27	22	25.4	6
RBQ2007	RBQC2007	10	18.2	4	7	18	9	44.5	M20×1.5	37.5	27	31.2	6
RBQ2508	RBQC2508	12	23.2	4	8	23	10	52	M25×1.5	44	32	37	6
RBQ3009	RBQC3009	16	28.2	5	8.5	28	12	61.5	M30×1.5	53	41	47.3	6
RBQ3213	RBQC3213	18	30.2	5	13	30	13	76	M32×1.5	63	41	47.3	6

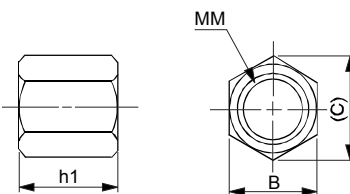
Hexagon Nut

(2 pcs. standard equipment)



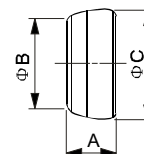
Option

Stopper nut



Replacement Parts

Bumper



These are the replacement part for the cap type. Not available for the basic type.

Part no.	MM	h	B	C
RBQ16J	M16×1.5	6	22	25.4
RB20J ⁽¹⁾	M20×1.5	6	27	31.2
RBQ25J	M25×1.5	6	32	37
RBQ30J	M30×1.5	6	41	47.3
RBQ32J	M32×1.5	6	41	47.3

Note 1) In the case of RB20J, RB and RBQ are common.

Part no.	B	C	h1	MM
RBQ16S	22	25.4	12	M16×1.5
RB20S ⁽²⁾	27	31.2	16	M20×1.5
RBQ25S	32	37	18	M25×1.5
RBQ30S	41	47.3	20	M30×1.5
RBQ32S	41	47.3	25	M32×1.5

Note 2) In the case of RB20S, RB and RBQ are common.

Part no.	A	B	C
RBQC16C	3.5	4	4.7
RBQC20C	4.5	8	8.3
RBQC25C	5	8.3	9.3
RBQC30C	6	11.3	12.4
RBQC32C	6.6	13.1	14.4