

Compact Cylinder: Standard Type, Single Rod

Series **CQ2**

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63,
ø80, ø100, ø125, ø140, ø160, ø180, ø200

Features

- Unique range of products and sizes
- Compact, light weight, space-saving design
- Single or double acting
- Non-rotating piston rod option (ø12 to 63 only)
- Bore sizes: ø12 - 200mm



Specifications

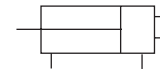
Type	Pneumatic (Non-lube)
Fluid	Air
Proof pressure	1.5 MPa (ø180, ø200 1.05MPa)
Maximum operating pressure	1.0 MPa (ø180, ø200 0.7MPa)
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)
Rubber bumper	None
Rod end thread	Female thread
Rod end thread tolerance	JIS class 2
Stroke length tolerance	+1.0 0
Mounting	Through-hole
Piston speed	50 to 500 mm/s (ø180, ø200 20 - 400mm/s)

JIS Symbols

JIS Symbol
Double acting,
Single rod



JIS Symbol
With boss in
head side



Auto Switch Specifications Refer to switch section.

Thread Type

Symbol	Type	Bore size
-	M-thread	ø12 - ø25
E	G	ø32 - ø200

How to Order

With magnet

With magnet	
D Without magnet	

Rod Type

Nil	Standard Single Rod Type
K	Non-rotating Rod Type*

* Non-rotating rod type double acting only

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

* For ø125 - ø200 B-standard only available.
For long stroke types A is mandatory.

Standard Stroke Single Acting Type

Bore Size (mm)	Standard stroke
12, 16, 20 25, 32, 40	5, 10
50	10, 20

Double Acting Type

Bore Size (mm)	Standard stroke (mm)	Long Stroke (mm)
12, 16	5, 10, 15, 20, 25, 30	Not available
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	125, 150, 175, 200, 250, 300
50, 63	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	
80, 100	45, 50, 75, 100	
125, 140, 160, 180, 200	10, 20, 30, 40, 50, 75, 100	

* Non-rotating type ø12 - ø63 available only

Body options

-	Standard (Rod end female thread)
C*	With rubber bumper

* For large bore sizes ø125, ø140, ø160, ø180, ø200 mandatory. Optional for all other types.

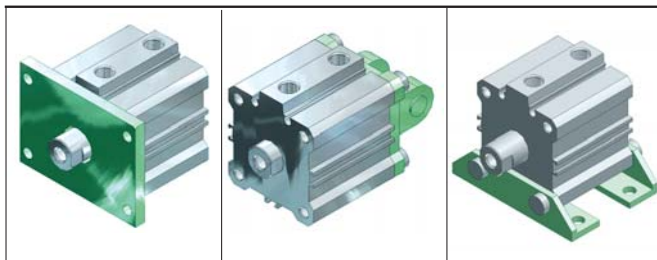
Action

D	Double acting
S	Single acting

Also Available:

Air Hydro, Through Rod and Male Rod Threads.

Cylinder Mounting Accessories



Bore size (mm)	Front/ Rear Flange	Double clevis	Foot
12	CQ-F012	CQ-D012	CQ-L012
16	CQ-F016	CQ-D016	CQ-L016
20	CQ-F020	CQ-D020	CQ-L020
25	CQ-F025	CQ-D025	CQ-L025
32	CQ-F032	CQ-D032	CQ-L032
40	CQ-F040	CQ-D040	CQ-L040
50	CQ-F050	CQ-D050	CQ-L050
63	CQ-F063	CQ-D063	CQ-L063
80	CQ-F080	CQ-D080	CQ-L080
100	CQ-F100	CQ-D100	CQ-L100

For spares reference only.
Order cylinder with mount included.

Replacement Parts: Seal Kit/Standard

Bore size (mm)	Kit no.
12	CQ2B12-PS
16	CQ2B16-PS
20	CQ2B20-PS
25	CQ2B25-PS
32	CQ2B32-PS
40	CQ2B40-PS
50	CQ2B50-PS
63	CQ2B63-PS
80	CQ2B80-PS
100	CQ2B100-PS
125	CQ2B125-PS
140	CQ2B140-PS
160	CQ2B160-PS
180	CQ2B180-PS
200	CQ2B200-PS

Standard Replacement Parts: Seal Kit/Single Acting

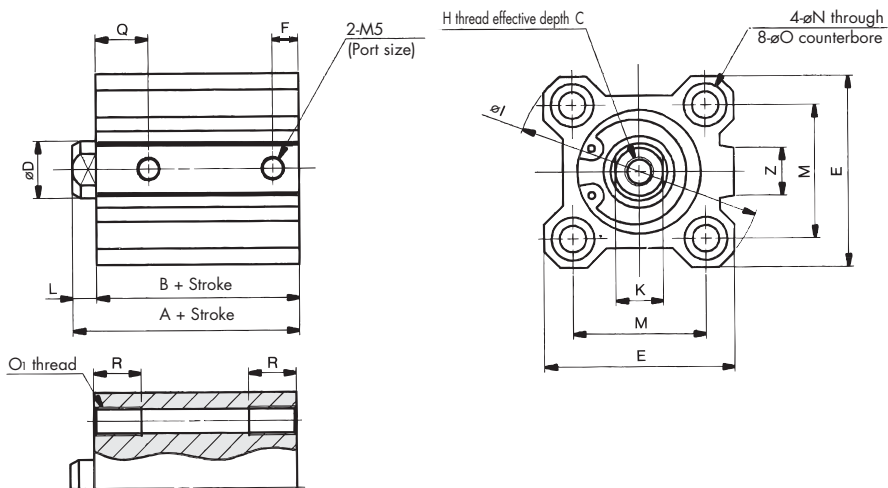
Bore size (mm)	Single acting/Spring return
12	CQ2B12-S-PS
16	CQ2B16-S-PS
20	CQ2B20-S-PS
25	CQ2B25-S-PS
32	CQ2B32-S-PS
40	CQ2B40-S-PS
50	CQ2B50-S-PS

Replacement Parts: Seal Kit/Non-Rotating

Bore size (mm)	Kit no.	Bore size (mm)	Kit no.
12	CQ2KB12-PS	32	CQ2KB32-PS
16	CQ2KB16-PS	40	CQ2KB40-PS
20	CQ2KB20-PS	50	CQ2KB50-PS
25	CQ2KB25-PS	63	CQ2KB63-PS

Dimensions: $\phi 12$ to $\phi 25$ /Double Acting/ Without Auto Switch

Basic style (Through-hole): CQ2B



Both Ends
Tapped Style CQ2A

Bore size (mm)	O ₁	R
12	M4	7
16	M4	7
20	M6	10
25	M6	10

Both ends tapped style: CQ2A

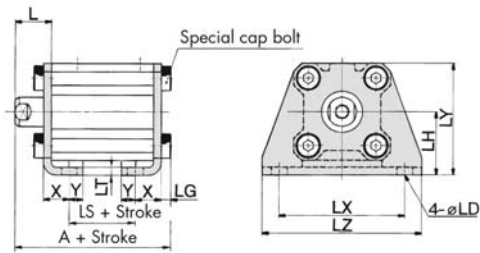
Basic Style

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	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	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	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	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.

Double Acting/Without Auto Switch

Foot style:

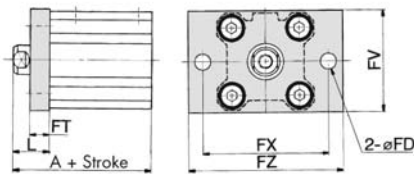


Foot Style

Bore size (mm)	Stroke range (mm)	A	L	LD	LG	LH	LS	LT	LX	LY	LZ	X	Y
12	5 to 30	35.3	13.5	4.5	2.8	17	5	2	34	29.5	44	8	4.5
16	5 to 30	36.8	13.5	4.5	2.8	19	6.5	2	38	33.5	48	8	5
20	5 to 50	41.2	14.5	6.6	4	24	7.5	3.2	48	42	62	9.2	5.8
25	5 to 50	44.7	15	6.6	4	26	7.5	3.2	52	46	66	10.7	5.8

Foot bracket material: Carbon steel

Rod side flange style:

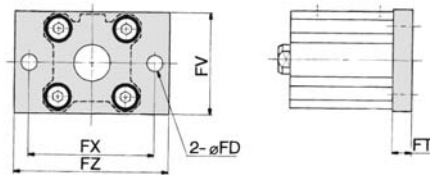


Rod Side Flange Style

Bore size (mm)	Stroke range (mm)	A	FD	FT	FV	FX	FZ	L
12	5 to 30	30.5	4.5	5.5	25	45	55	13.5
16	5 to 30	32	4.5	5.5	30	45	55	13.5
20	5 to 50	34	6.6	8	39	48	60	14.5
25	5 to 50	37.5	6.6	8	42	52	64	15

Flange bracket material: Carbon steel

Head side flange style:

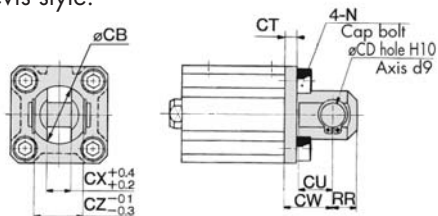


Head Side Flange Style

Bore size (mm)	Stroke range (mm)	FD	FT	FV	FX	FZ
12	5 to 30	4.5	5.5	25	45	55
16	5 to 30	4.5	5.5	30	45	55
20	5 to 50	6.6	8	39	48	60
25	5 to 50	6.6	8	42	52	64

Flange bracket material: Carbon steel

Double clevis style:

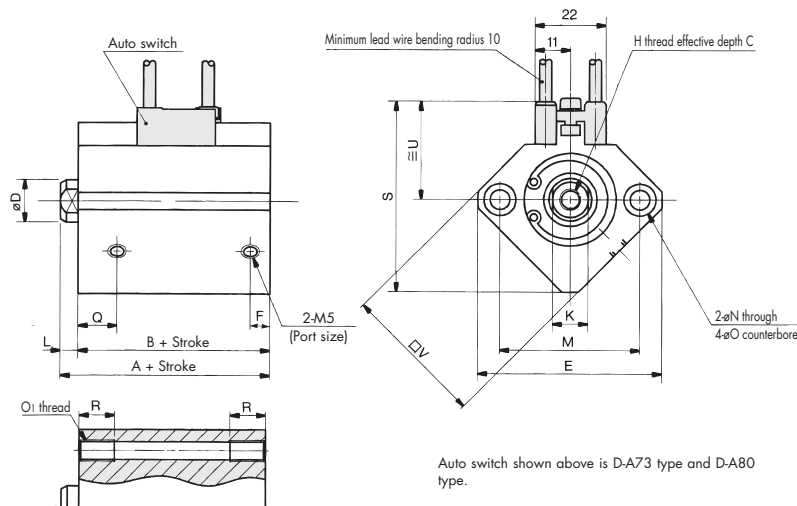


Double Clevis Style

Bore size (mm)	Stroke range (mm)	CB	CD	CT	CU	CW	CX	CZ	N	RR
12	5 to 30	12	5	4	7	14	5	10	M4	6
16	5 to 30	14	5	4	10	15	6.5	12	M4	6
20	5 to 50	20	8	5	12	18	8	16	M6	9
25	5 to 50	24	10	5	14	20	10	20	M6	10

Double clevis bracket material: Carbon steel
* Clevis pin and circlips are included.

Basic style (Through-hole): CDQ2B



Both ends tapped style: CDQ2A

Bore size (mm)	O ₁	R
12	M4	7
16	M4	7
20	M6	10
25	M6	10

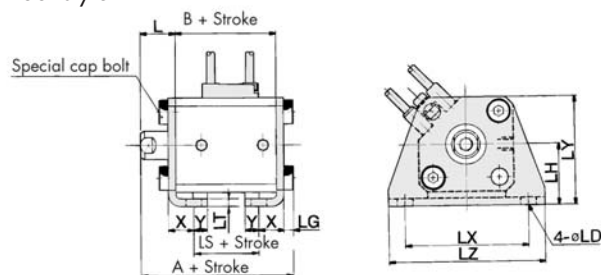
Basic Style

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	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	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	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	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.

Dimensions: $\phi 12$ to $\phi 25$ /Double Acting with Auto Switch

Foot style

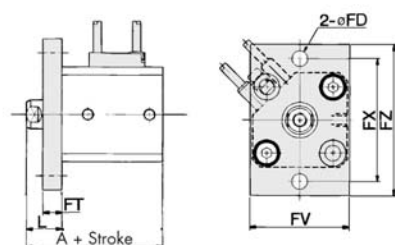


Foot Style

Bore size (mm)	Stroke range (mm)	A	B	L	L1	LD	LG	LH	LS	LX	LY	LZ	X	Y
12	5 to 30	46.3	28	13.5	24	4.5	2.8	17	16	34	29.5	44	8	4.5
16	5 to 30	48.8	30.5	13.5	25.5	4.5	2.8	19	18.5	38	33.5	48	8	5
20	5 to 50	53.2	31.5	14.5	28.5	6.6	4	24	19.5	48	42	62	9.2	5.8
25	5 to 50	54.7	32.5	15	32.5	6.6	4	26	17.5	52	46	66	10.7	5.8

Foot bracket material: Carbon steel

Rod side flange style

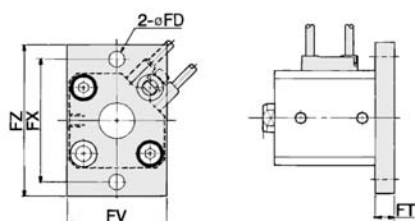


Rod Side Flange Style

Bore size (mm)	Stroke range (mm)	A	FD	FT	FV	FX	FZ	L
12	5 to 30	41.5	4.5	5.5	25	45	55	13.5
16	5 to 30	44	4.5	5.5	30	45	55	13.5
20	5 to 50	46	6.6	8	39	48	60	14.5
25	5 to 50	47.5	6.6	8	42	52	64	15

Flange bracket material: Carbon steel

Head side flange style

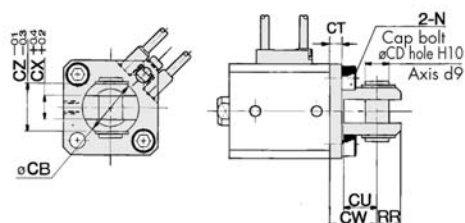


Flange Style Head Side

Bore size (mm)	Stroke range (mm)	A	FD	FT	FV	FX	FZ
12	5 to 30	41.5	4.5	5.5	25	45	55
16	5 to 30	44	4.5	5.5	30	45	55
20	5 to 50	46	6.6	8	39	48	60
25	5 to 50	47.5	6.6	8	42	52	64

Flange bracket material: Carbon steel

Double clevis style



Double Clevis Style

Bore size (mm)	Stroke range (mm)	CB	CD	CT	CU	CW	CX	CZ	N	RR
12	5 to 30	12	5	4	7	14	5	10	M4	6
16	5 to 30	14	5	4	10	15	6.5	12	M4	6
20	5 to 50	20	8	5	12	18	8	16	M6	9
25	5 to 50	24	10	5	14	20	10	20	M6	10

Double clevis bracket material: Carbon steel
Clevis pin and circlips are included.

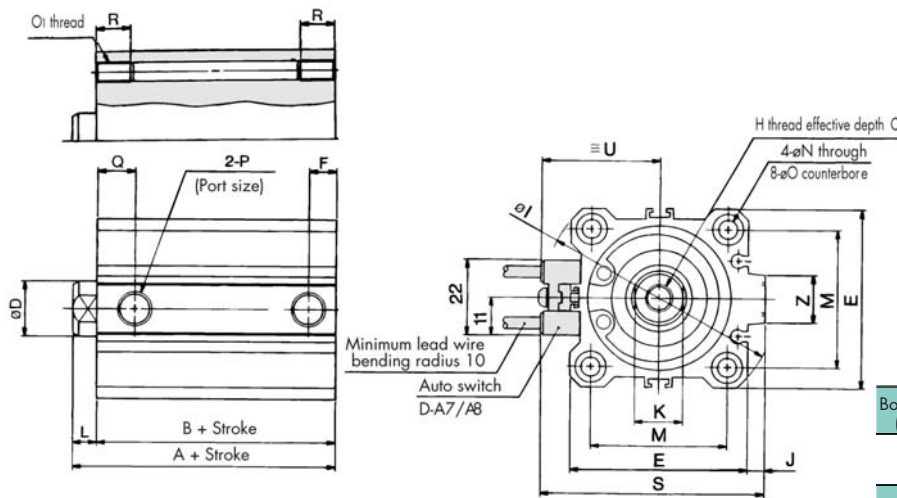
Dimensions: ø32 to ø50/Double Acting with Auto Switch

Both ends tapped style: CDQ2A

Basic style (Through-hole): CQ2B/CDQ2B

Both Ends
Tapped Style

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



Bore size (mm)	N	O	S	U	Z
32	5.5	9 depth 7	58.5	31.5	14
40	5.5	9 depth 7	66	35	14
50	6.6	11 depth 8	80	41	19

Basic Style

Auto switch shown above is D-A73 type and D-A80 type.

Bore size (mm)	Stroke range (mm)	Without auto switch					With auto switch					C	D	E	H	I	J	K	L	M
		A	B	F	P	Q	A	B	F	P	Q									
32	5	30	23	5.5	M5	11.5	40	33	7.5	1/8	10.5	13	16	45	M8	60	4.5	14	7	34
	10 to 50	40	33	7.5	G1/8	10.5	40	33	7.5	1/8	10.5	13	16	45	M8	60	4.5	14	7	34
	75, 100	40	33	7.5	G1/8	10.5	40	33	7.5	1/8	10.5	13	16	45	M8	60	4.5	14	7	34
40	5 to 50	36.5	29.5	8	G1/8	11	46.5	39.5	8	1/8	11	13	16	52	M8	69	5	14	7	40
	75, 100	46.5	39.5	8	G1/8	11	46.5	39.5	8	1/8	11	13	16	52	M8	69	5	14	7	40
	75, 100	46.5	39.5	8	G1/8	11	46.5	39.5	8	1/8	11	13	16	52	M8	69	5	14	7	40
50	10 to 50	38.5	30.5	10.5	G1/4	10.5	48.5	40.5	10.5	1/4	10.5	15	20	64	M10	86	7	17	8	50
	75, 100	48.5	40.5	10.5	G1/4	10.5	48.5	40.5	10.5	1/4	10.5	15	20	64	M10	86	7	17	8	50
	75, 100	48.5	40.5	10.5	G1/4	10.5	48.5	40.5	10.5	1/4	10.5	15	20	64	M10	86	7	17	8	50

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

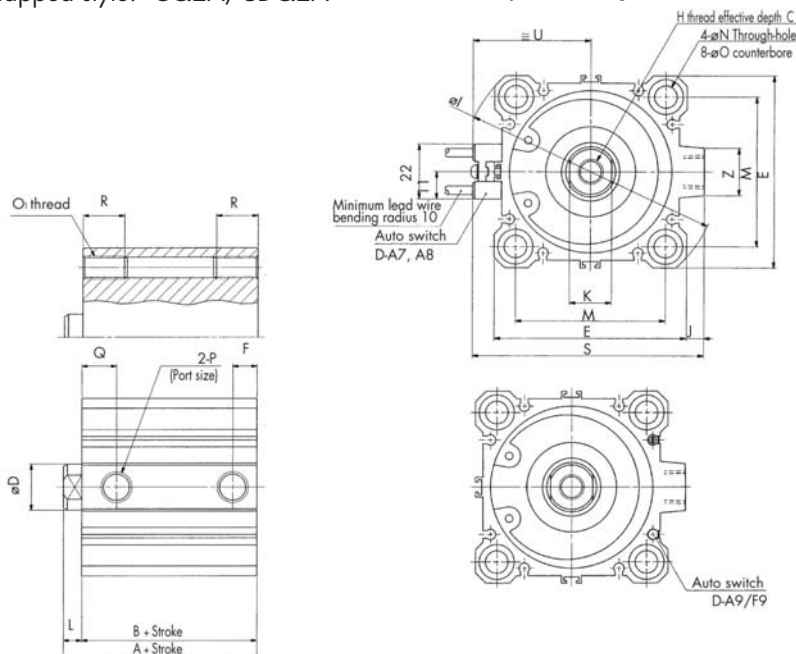
Dimensions: ø63 to ø100/Double Acting with Auto Switch

Both ends tapped style: CQ2A/CDQ2A

Basic style (Through-hole)

Both Ends
Tapped Style

Bore size (mm)	O ₁	R
63	M10	18
80	M12	22
100	M12	22



Bore size (mm)	U	Z
63	47.5	19
80	57.5	26
100	67.5	26

Basic Style

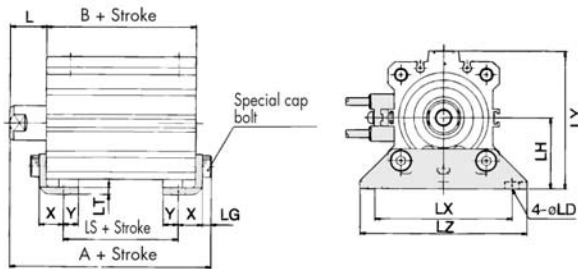
Auto switch shown above is D-A73 type and D-A80 type.

Bore size (mm)	Stroke range (mm)	Without auto switch		With auto switch		C	D	E	F	H	I	J	K	L	M	N	O	P	Q	S
		A	B	A	B															
63	10 to 50	44	36	54	46	15	20	77	10.5	M10	103	7	17	8	60	9	14 depth 10.5	G1/4	15	93
	75, 100	54	46	54	46	15	20	77	10.5	M10	103	7	17	8	60	9	14 depth 10.5	G1/4	15	93
	75, 100	54	46	54	46	15	20	77	10.5	M10	103	7	17	8	60	9	14 depth 10.5	G1/4	15	93
80	10 to 50	53.5	43.5	63.5	53.5	21	25	98	12.5	M16	132	6	22	10	77	11	17.5 depth 13.5	G3/8	16	112.5
	75, 100	63.5	53.5	63.5	53.5	21	25	98	12.5	M16	132	6	22	10	77	11	17.5 depth 13.5	G3/8	16	112.5
	75, 100	63.5	53.5	63.5	53.5	21	25	98	12.5	M16	132	6	22	10	77	11	17.5 depth 13.5	G3/8	16	112.5
100	10 to 50	65	53	75	63	27	30	117	13	M20	156	6.5	27	12	94	11	17.5 depth 13.5	G3/8	23	132.5
	75, 100	75	63	75	63	27	30	117	13	M20	156	6.5	27	12	94	11	17.5 depth 13.5	G3/8	23	132.5
	75, 100	75	63	75	63	27	30	117	13	M20	156	6.5	27	12	94	11	17.5 depth 13.5	G3/8	23	132.5

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

Dimensions: ø32 to ø100 Double Acting

Foot style



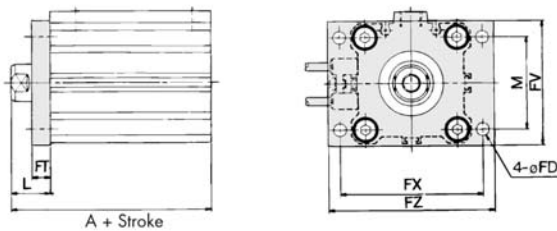
Foot Style

Foot bracket material: Carbon steel

Bore size (mm)	Stroke range (mm)	Without auto switch			With auto switch			L	LD	LG	LH	LT	LX	LY	LZ	X	Y
		A	B	LS	A	B	LS										
32	5 to 50	47.2	23	7	57.2	33	17	17	6.6	4	30	3.2	57	57	71	112	5.8
	75, 100	57.2	33	17	63.7	39.5	23.5	17	6.6	4	33	3.2	64	64	78	112	7
40	5 to 50	53.7	29.5	13.5	63.7	39.5	23.5	17	6.6	4	33	3.2	64	64	78	112	7
	75, 100	66.7	40.5	17.5	66.7	40.5	17.5	18	9	5	39	3.2	79	78	95	147	8
50	10 to 50	56.7	30.5	7.5	66.7	40.5	17.5	18	9	5	39	3.2	79	78	95	147	8
	75, 100	66.7	40.5	17.5	66.7	40.5	17.5	18	9	5	39	3.2	79	78	95	147	8
63	10 to 50	62.2	36	10	72.2	46	20	18	11	5	46	3.2	95	91.5	113	162	9
	75, 100	72.2	46	20	72.2	46	20	18	11	5	46	3.2	95	91.5	113	162	9
80	10 to 50	75	43.5	13.5	85	53.5	23.5	20	13	7	59	4.5	118	114	140	19.5	11
	75, 100	85	53.5	23.5	85	53.5	23.5	20	13	7	59	4.5	118	114	140	19.5	11
100	10 to 50	88	53	19	98	63	29	22	13	7	71	6	137	136	162	23	12.5
	75, 100	98	63	29	98	63	29	22	13	7	71	6	137	136	162	23	12.5

Foot bracket material: Carbon steel

Rod side flange style

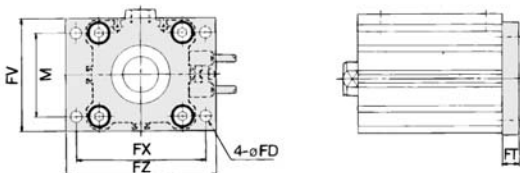


Rod Side Flange Style

Bore size (mm)	Stroke range (mm)	Without auto switch		With auto switch		FD	FT	FV	FX	FZ	L	M
		A	B	A	B							
32	5 to 50	40	50	40	50	5.5	8	48	56	65	17	34
	75, 100	50	60	50	60	5.5	8	54	62	72	17	40
40	5 to 50	46.5	56.5	46.5	56.5	5.5	8	54	62	72	17	40
	75, 100	56.5	66.5	56.5	66.5	5.5	8	54	62	72	17	40
50	10 to 50	48.5	58.5	48.5	58.5	6.6	9	67	76	89	18	50
	75, 100	58.5	68.5	58.5	68.5	6.6	9	67	76	89	18	50
63	10 to 50	54	64	54	64	9	9	80	92	108	18	60
	75, 100	64	74	64	74	9	9	80	92	108	18	60
80	10 to 50	63.5	73.5	63.5	73.5	11	11	99	116	134	20	77
	75, 100	73.5	83.5	73.5	83.5	11	11	99	116	134	20	77
100	10 to 50	75	85	75	85	11	11	117	136	154	22	94
	75, 100	85	95	85	95	11	11	117	136	154	22	94

Flange bracket material: Carbon steel

Head side flange style

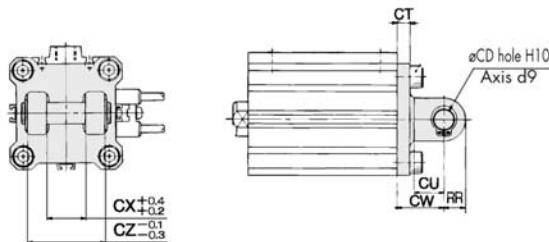


Head Side Flange Style

Bore size (mm)	Stroke range (mm)	FD	FT	FV	FX	FZ	L	M
32	5 to 50	5.5	8	48	56	65	17	34
	75, 100	5.5	8	54	62	72	17	40
40	5 to 50	5.5	8	54	62	72	17	40
	75, 100	5.5	8	54	62	72	17	40
50	10 to 50	6.6	9	67	76	89	18	50
	75, 100	6.6	9	67	76	89	18	50
63	10 to 50	9	9	80	92	108	18	60
	75, 100	9	9	80	92	108	18	60
80	10 to 50	11	11	99	116	134	20	77
	75, 100	11	11	99	116	134	20	77
100	10 to 50	11	11	117	136	154	22	94
	75, 100	11	11	117	136	154	22	94

Flange bracket material: Carbon steel

Double clevis style



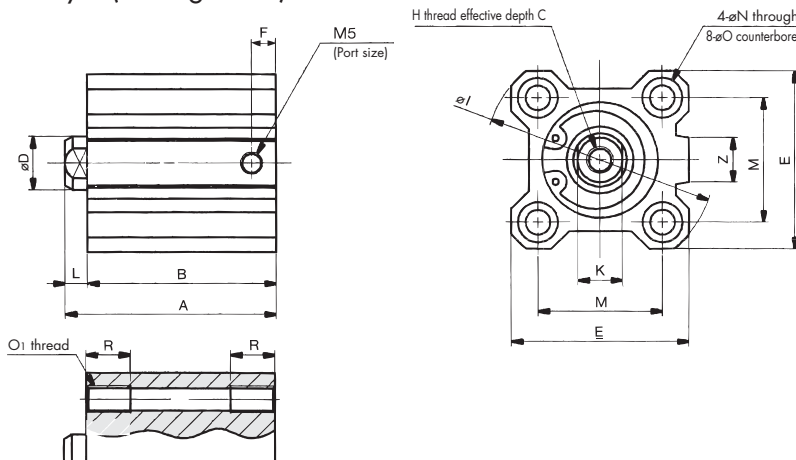
Double Clevis Style

Bore size (mm)	Stroke range (mm)	CD	CT	CU	CW	CX	CZ	RR
32	5 to 50	10	5	14	20	18	36	10
	75, 100	10	5	14	20	18	36	10
40	5 to 50	10	6	14	22	18	36	10
	75, 100	10	6	14	22	18	36	10
50	10 to 50	14	7	20	28	22	44	14
	75, 100	14	7	20	28	22	44	14
63	5 to 50	14	8	20	30	22	44	14
	75, 100	14	8	20	30	22	44	14
80	5 to 50	18	10	27	38	28	56	18
	75, 100	18	10	27	38	28	56	18
100	10 to 50	22	13	31	45	32	64	22
	75, 100	22	13	31	45	32	64	22

Double clevis bracket material: Cast iron
Clevis pin and clips are included.

Dimensions: $\varnothing 12$ to $\varnothing 25$ / Spring Return without Auto Switch

Basic style (Through-hole): CQ2B



Both Ends Tapped Style

Bore size (mm)	ØI	R
12	M4	7
16	M4	7
20	M6	10
25	M6	10

Both ends tapped style: CQ2A

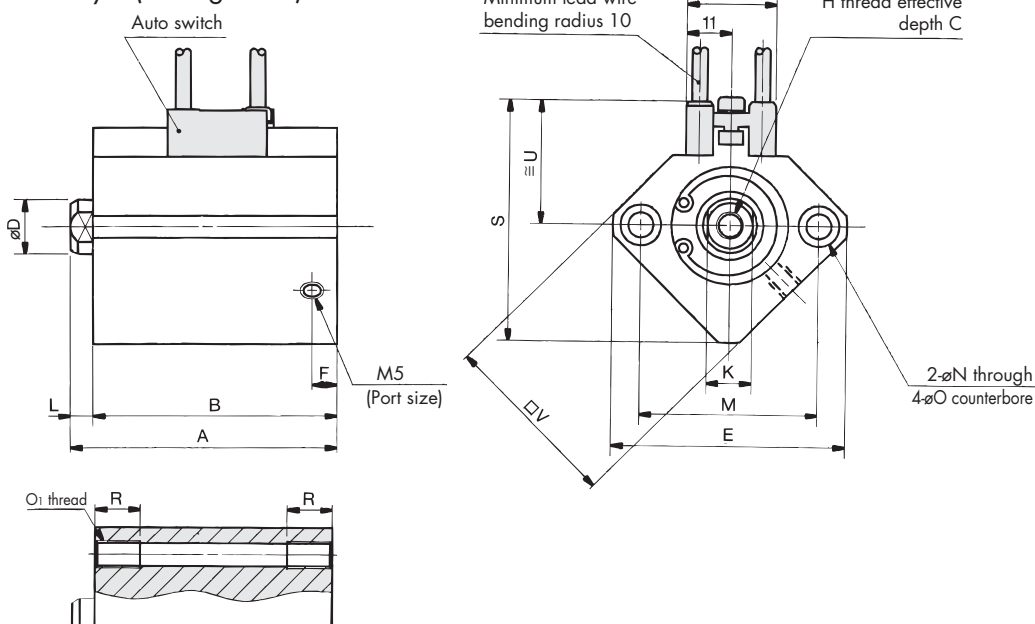
Basic Style

Mounting bracket dimensions are as per double acting cylinder accessories.

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	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	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	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	52	10	5	28	5.5	9 depth 7	10

Dimensions: 12 to 25/Spring Return with Auto Switch

Basic style (Through-hole): CDQ2B



Both Ends Tapped Style

Bore size (mm)	ØI	R
12	M4	7
16	M4	7
20	M6	10
25	M6	10

Both ends tapped style: CDQ2A

Auto switch shown above is D-A73 type and D-A80 type.

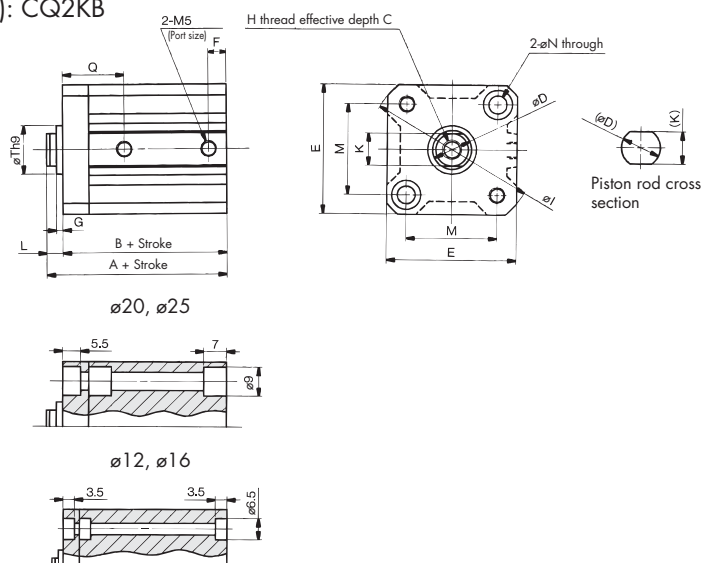
Basic Style

Mounting bracket dimensions are as per double acting cylinder accessories.

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	5	3.5	22	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	6	3.5	28	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	8	4.5	36	5.5	9 depth 7	48	24.5	36
25	42.5	47.5	37.5	42.5	12	12	52	5.5	M6	10	5	40	5.5	9 depth 7	53.5	27.5	40

Dimensions: $\phi 12$ to $\phi 25$ /Non-rotating without Auto Switch

Basic style (Through-hole): CQ2KB

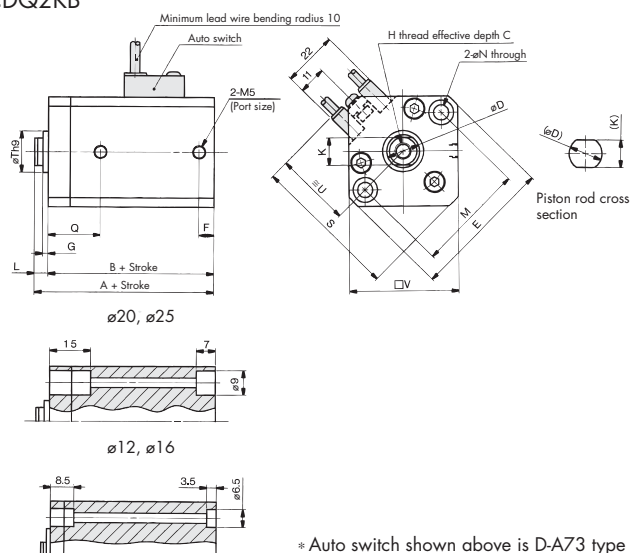


Basic Style

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	G	H	I	K	L	M	N	Q	Th9
12	5 to 30	25.5	22	6	6	25	5	1.5	M3	32	5.2	3.5	15.5	3.5	12.5	15 ⁰ _{-0.043}
16	5 to 30	27	23.5	8	8	29	5.5	1.5	M4	38	6	3.5	20	3.5	13	20 ⁰ _{-0.052}
20	5 to 50	32	27.5	7	10	36	5.5	2	M5	47	8	4.5	25.5	5.5	17	13 ⁰ _{-0.043}
25	5 to 50	35.5	30.5	12	12	40	5.5	2	M6	52	10	5	28	5.5	19	15 ⁰ _{-0.043}

Dimensions: $\phi 12$ to $\phi 25$ /Non-rotating with Auto Switch

Basic Style (Through-hole): CDQ2KB

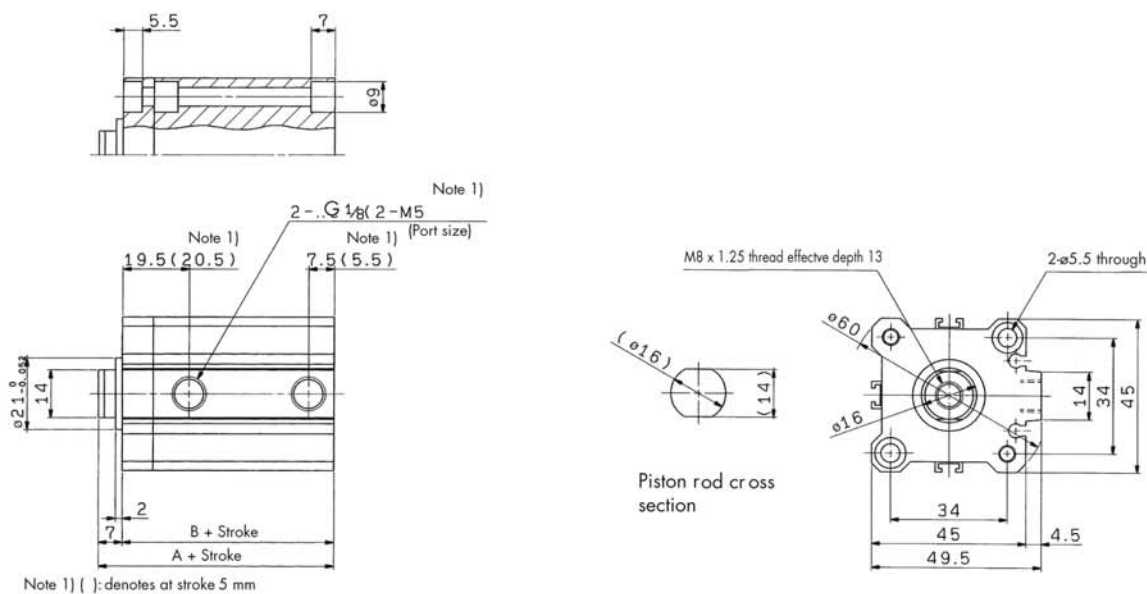


* Auto switch shown above is D-A73 type and DA80 type.

Basic Style

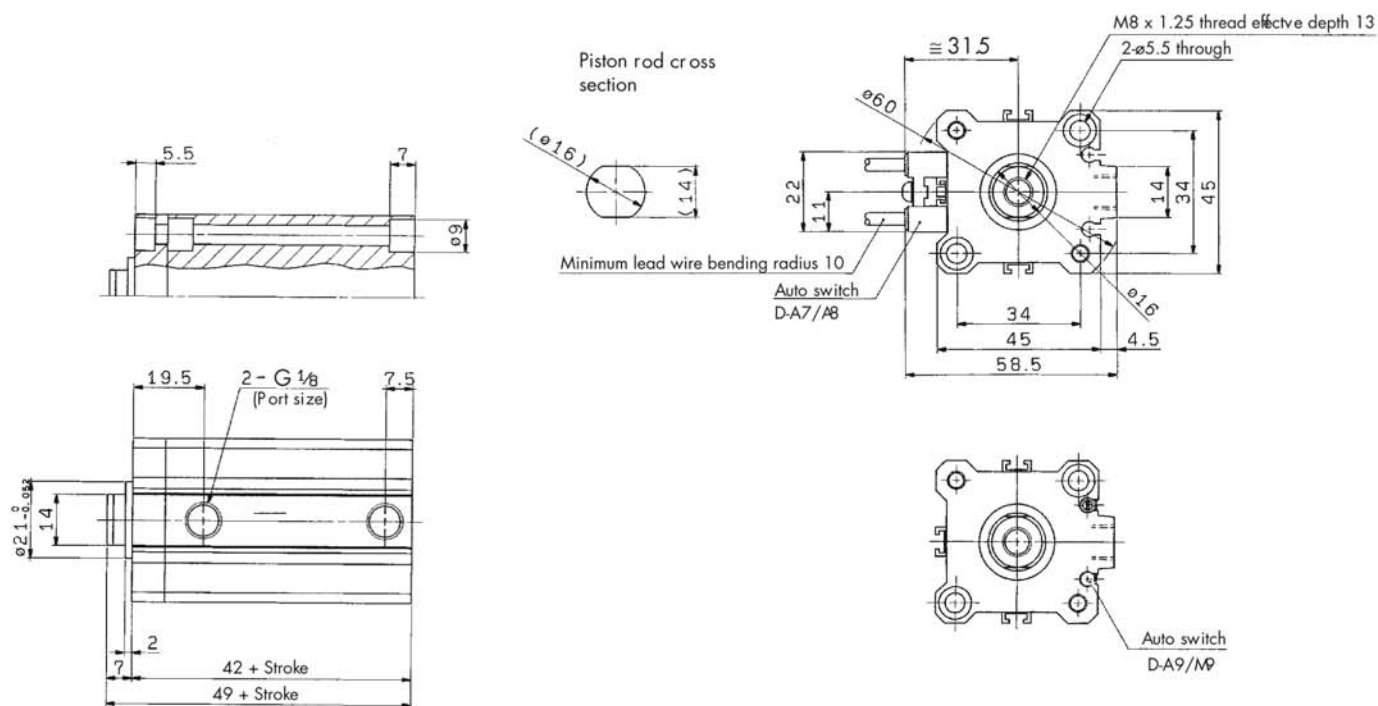
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	G	H	K	L	M	N	Q	S	Th9	U	V
12	5 to 30	36.5	33	6	6	32	6.5	1.5	M3	5.2	3.5	22	3.5	16	35.5	15 ⁰ _{-0.043}	19.5	25
16	5 to 30	39	35.5	8	8	38	5.5	1.5	M4	6	3.5	28	3.5	15	41.5	20 ⁰ _{-0.052}	22.5	29
20	5 to 50	44	39.5	7	10	47	5.5	2	M5	8	4.5	36	5.5	18.5	48	13 ⁰ _{-0.043}	24.5	36
25	5 to 50	45.5	40.5	12	12	52	5.5	2	M6	10	5	40	5.5	19	53.5	15 ⁰ _{-0.043}	27.5	40

Dimensions: $\phi 32$ /Non-rotating without Auto Switch



Stroke range	A	B
5 to 50	39	32
75, 100	49	42

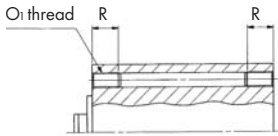
Dimensions: $\phi 32$ /Non-Rotating with Auto Switch



Dimensions: 40 to 63/Non-rotating

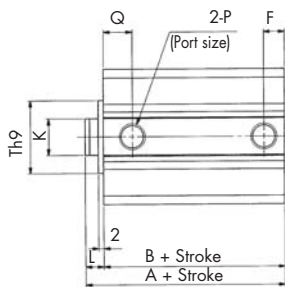
(In the case of without auto switches, A and B dimensions will be only changed. Refer to the dimension chart.)

Both ends tapped style:
CDQ2KA



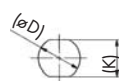
Both Ends
Tapped Style

Bore size (mm)	O ₁	R
40	M6	10
50	M8	14
63	M10	18

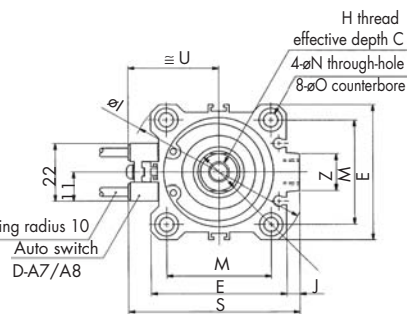


Basic style (Through-hole): CDQ2KB

Piston rod cross
section



Minimum lead w



Basic Style

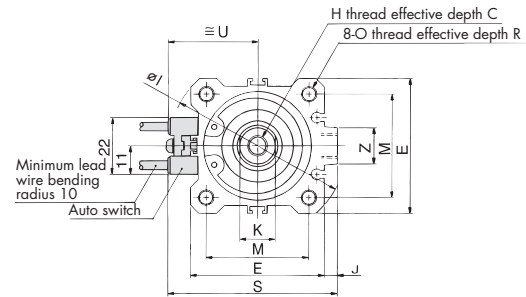
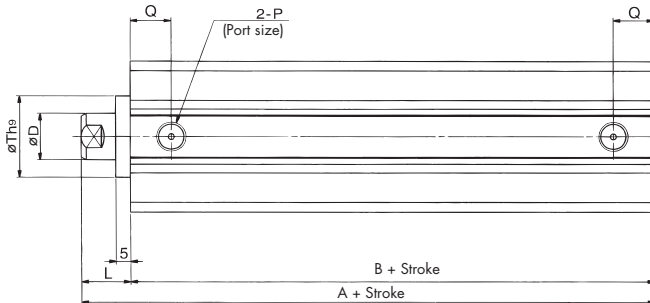
Mounting bracket dimensions are as per double acting cylinder accessories.

Bore size (mm)	Stroke range (mm)	Without auto switch		With auto switch		C	D	E	F	H	I	J	K	L	M	N	O	P	Q	S	Th9	U	Z
		A	B	A	B																		
40	5 to 50	36.5	29.5	46.5	39.5	13	16	52	8	M8	69	5	14	7	40	5.5	9 depth 7	G 1/8	11	66	28 ⁰ _{-0.052}	35	14
	75, 100	46.5	39.5																				
50	10 to 50	38.5	30.5	48.5	40.5	15	20	64	10.5	M10	86	7	18	8	50	6.6	11 depth 8	G 1/4	10.5	80	35 ⁰ _{-0.062}	41	19
	75, 100	48.5	40.5																				
63	10 to 50	44	36	54	46	15	20	77	10.5	M10	103	7	18	8	60	9	14 depth 10.5	G 1/4	15	93	35 ⁰ _{-0.062}	47.5	19
	75, 100	54	46																				

Dimensions: $\varnothing 32$ to $\varnothing 50$ / Long Stroke

Both ends tapped style: C□Q2A

NOTE: The dimensions are the same with or without an auto switch.



Auto switch shown above is D-A73 and D-A80.

Both Ends Tapped Style

Mounting bracket dimensions are as per double acting cylinder accessories.

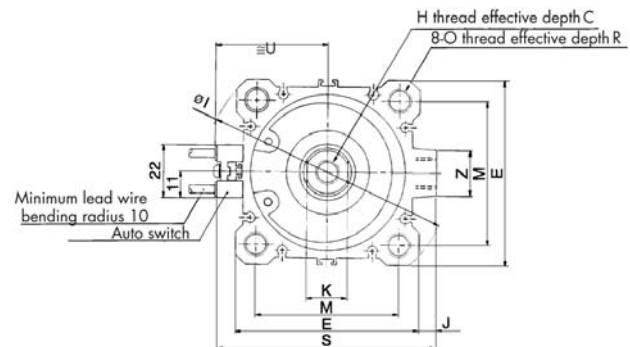
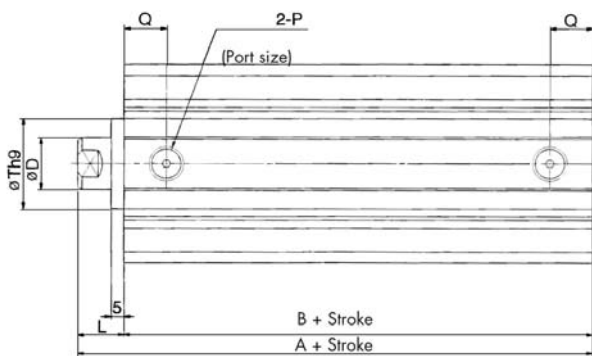
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	I	J	K	L	M	O	P	Q	R	S	Th9	U	Z
32	125 to 200 250, 300	62.5	45.5	13	16	45	M8	60	4.5	14	17	34	M6	G 1/8	12.5	10	58.5	22 ⁰ _{-0.052}	31.5	14
40		72	55	13	16	52	M8	69	5	14	17	40	M6	G 1/8	14	10	66	28 ⁰ _{-0.052}	35	14
50		73.5	55.5	15	20	64	M10	86	7	17	18	50	M8	G 1/4	14	14	80	35 ⁰ _{-0.062}	41	19

Note 1) For calculation on the longitudinal dimension of the intermediate strokes, refer to Best Pneumatics Vol.7

Dimensions: $\varnothing 63$ to $\varnothing 100$ / Long Stroke

Both ends tapped style: Series C□Q2A

NOTE: The dimensions are the same with or without an auto switch.



Auto switch shown above is D-A73 and D-A80.

Both Ends Tapped Style

Mounting bracket dimensions are as per double acting cylinder accessories.

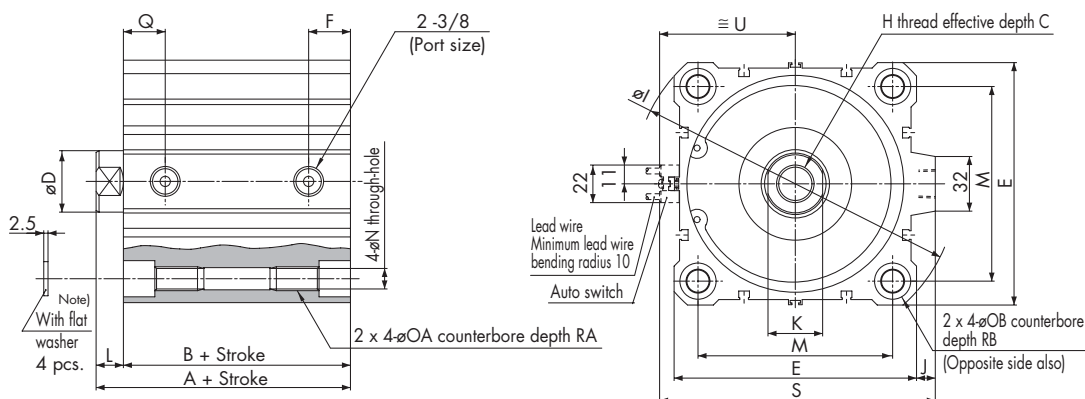
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	I	J	K	L	M	O	P	Q	R	S	Th9	U	Z
63	125 to 200 250, 300	75	57	15	20	77	M10	103	7	17	18	60	M10	G 1/4	16.5	18	93	35 ⁰ _{-0.062}	47.5	19
80		86	66	21	25	98	M16	132	6	22	20	77	M12	G 3/8	19	22	112.5	43 ⁰ _{-0.062}	57.5	26
100		97.5	75.5	27	30	117	M20	156	6.5	27	22	94	M12	G 3/8	23	22	132.5	59 ⁰ _{-0.074}	67.5	26

Note 1) For calculation on the longitudinal dimension of the intermediate strokes, refer to Best Pneumatics Vol.7.

Dimensions: $\varnothing 125$, $\varnothing 140$, $\varnothing 160$

Basic style (Through-hole): C□Q2B

The dimensions are the same with or without an auto switch.



Switches in the above figure are the case for the reed switches D-A73 type and D-A80 type.

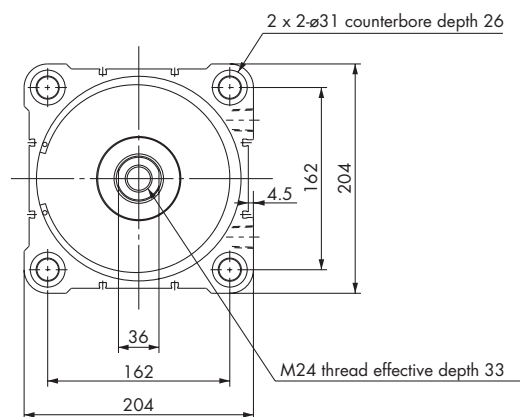
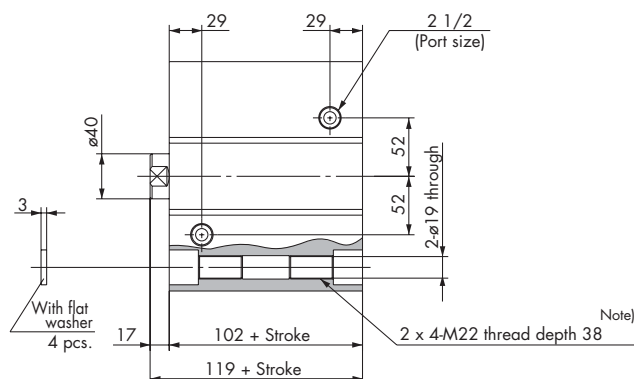
Bore size (mm)	Standard stroke range	A	B	C	D	E	F	H	I	J	K	L	M	N	OA	OB	Q	RA	RB	S	U
125	10, 20, 30, 40, 50	99	83	30	36	142	24.5	M22	190	11	32	16	114	12.5	M14	21.2	24.5	25	18.4	162	80
140	75, 100, 125, 150	99	83	30	36	158	24.5	M22	210	10	32	16	128	12.5	M14	21.2	24.5	25	18.4	177	88
160	175, 200, 250, 300	108	91	33	40	178	27.5	M24	238	10	36	17	144	14.5	M16	24.2	27.5	28	21.2	197	98

Note) Be sure to use the attached plain washer for mounting, cylinder with through-holes.

Dimensions: $\phi 180$, $\phi 200$

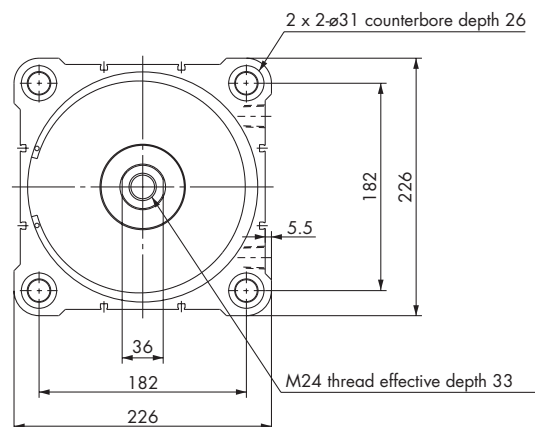
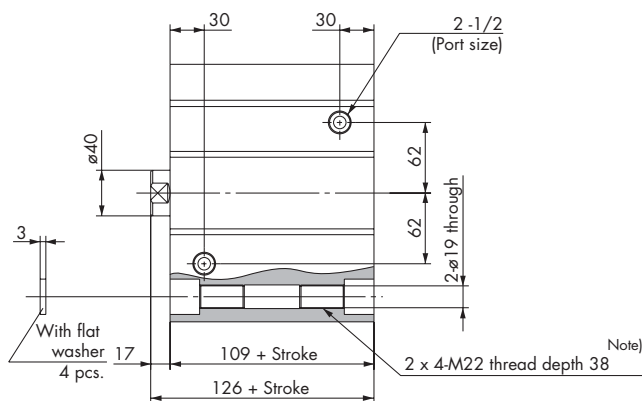
The dimensions are the same with or without an auto switch.

$\phi 180$



Note) In the case of 20 stroke or less, it would come with 2 x 4-M22 through thread.

$\phi 200$



Note) In the case of 20 stroke or less, it would come with 2 x 4-M22 through thread.