

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

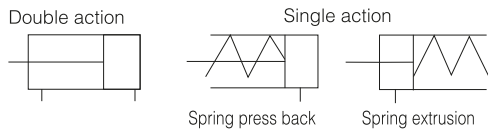


Specifications

Bore size(mm)		12	16	20	25	32	40	50	63	80	100
Fluid		Air (to be filtered by 40μm filter element)									
Action mode		Double action Single action: spring press back/spring press out									
Minimum operating pressure	Single action	0.25	0.18	0.17	0.15	0.13	-				
	Double action	0.07	0.05								
Maximum operating pressure		1.0MPa									
Ambient and fluid temperature		Without auto switch: -10 to 70℃ (No freezing) With auto switch: -10 to 60℃ (No freezing)									
Rod end thread		Internal thread (standard), external thread (optional)									
Cushion		None									
Piston speed		50~500mm/s									
Stroke length tolerance		+1.0 0									
Lubrication		Not required									
Installation form		Through hole(standard), screw hole at both ends(optional)									
Pipe size		M5×0.8				1/8"		1/4"		3/8"	

Note: If you need oil, please use turbine No. 1 oil ISOVG32.

Symbol



Ordering code

N	C	D	Q2	B		20		-	30	D		-	M9N	
Built in magnetic ring						Bore size		Stroke (See table below)			Body option		Number of magnetic switches	
Blank	No built-in magnetic ring					12 12mm					Blank	Standard (Rod end internal thread)		
						16 16mm					C	Rubber cushion Note)		
D	Built-in magnet ring					20 20mm					M	Rod end male thread		
						25 25mm					* Combination of body options ("CM", "FC", "FM", "FCM") is available. Note: Air-hydro type with rubber bumper is not available.			
						32 32mm								
						40 40mm								
						50 50mm								
						63 63mm								
						80 80mm								
						100 100mm								

Stroke/magnetic switch type table

Bore size (mm)	Standard stroke (mm)		*Magnetic switch type		
	Double action	Single action	Two wire contact control	Two wire contactless control	Three wire NPN
12, 16	5, 10, 15, 20, 25, 30	5, 10	3C-D-A93(V)L	M9D	M9B
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	10, 20			
50, 63, 80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100				

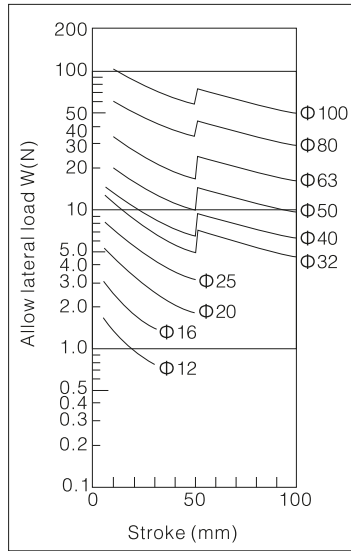
* The specifications and characteristics of magnetic switches can be referred to the magnetic open series. Behind the model of magnetic switch, the length of the attached wire indicates the mark: unlabeled-0.5m, L-3m, Z-5m
example: M9N, M9NL

Permissible kinetic energy (J)

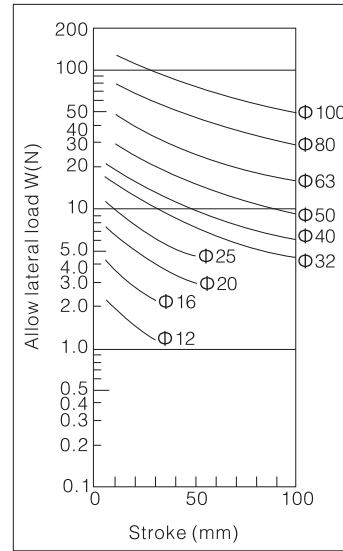
Bore size (mm)	12	16	20	25	32	40	50	63	80	100
Standard form	0.022	0.038	0.055	0.09	0.15	0.26	0.46	0.77	1.36	2.27
Cushioning pad	0.043	0.075	0.11	0.18	0.29	0.52	0.91	1.54	2.71	4.54

Allowable lateral load at rod end

Without auto switch



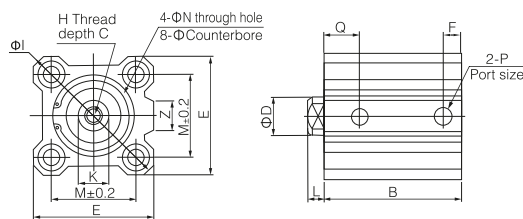
With auto switch



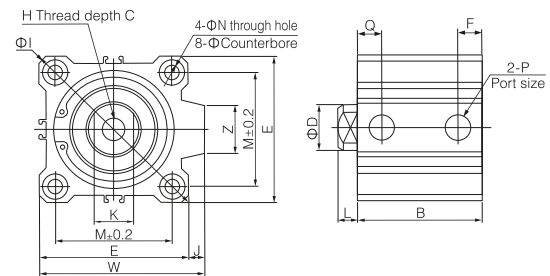
Dimensions

Through-hole Installation/NCQ2B

Φ12~Φ25



Φ32~Φ100



Double acting cylinder size table

Model	Stroke range (mm) ^{Note 1)}	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	W	Z
NCQ2B12-□D	5~30	17	6	25	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5 deep 3.5	M5×0.8	7.5	-	-
NCQ2B16-□D	5~30	18.5	8	29	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5 deep 3.5	M5×0.8	8	-	10
NCQ2B20-□D	5~50	19.5	10	36	5.5	M3×0.5	7	47	-	8	4.5	25.5	5.5	9 deep 7	M5×0.8	9	-	10
NCQ2B25-□D	5~50	22.5	12	40	5.5	M6×1.0	12	52	-	10	5	28	5.5	9 deep 7	M5×0.8	11	-	10
NCQ2B32-□D	5	23	16	45	5.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 deep 7	M5×0.8	11.5	49.5	14
	10~50				7.5											10.5		
NCQ2B40-□D	5~50	29.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 deep 7	1/8"	11	57	14
NCQ2B50-□D	10~50	30.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 deep 8	1/4"	10.5	71	19
NCQ2B63-□D	10~50	36	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 deep 10.5	1/4"	15	84	19
NCQ2B80-□D	10~50	43.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 deep 13.5	3/8"	16	104	26
NCQ2B100-□D	10~50	53	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 deep 13.5	3/8"	23	123.5	26

Long stroke ^{Note 2)}

Model	Stroke (mm)	B	F	P	Q
32	75, 100	33	7.5	1/8"	10.5
40	75, 100	39.5	8	1/8"	11
50	75, 100	40.5	10.5	1/4"	10.5
63	75, 100	46	10.5	1/4"	15
80	75, 100	53.5	12.5	3/8"	16
100	75, 100	63	13	3/8"	23

- Note: 1. Standard stroke is 5 mm apart
 2. Intermediate stroke (55, 60, 65, 70, 80, 85, 90, 95) between 55mm and 100mm plus 5, 10, 15 or 20mm thick pads.
 3. Unless other specified, the dimensions of through-hole cylinders are the same as those of screw-hole cylinders at both ends.

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

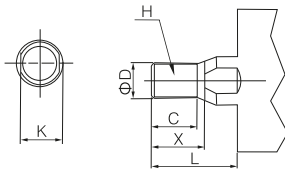
Cylinder

St= stroke

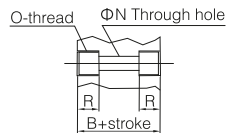
Size table of single-acting cylinder

Model	B			ΦD	E	F		H	C	ΦI	J	K	L	M	ΦN	ΦO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
NCQ2B12-□S	22	27	-	6	25	5	5	M3×0.5	6	32	-	5	3.5	15.5	3.5	6.5deep3.5	M5×0.8	-	7.5	7.5	-	-	-
NCQ2B16-□S	23.5	28.5	-	8	29	5.5	5.5	M4×0.7	8	38	-	6	3.5	20	3.5	6.5deep3.5	M5×0.8	-	8	8	-	10	-
NCQ2B20-□S	24.5	29.5	-	10	36	5.5	5.5	M5×0.8	7	47	-	8	4.5	25.5	5.5	9 deep 7	M5×0.8	-	9	9	-	10	-
NCQ2B25-□S	27.5	32.5	-	12	40	5.5	5.5	M6×1.0	12	52	-	10	5	28	5.5	9 deep 7	M5×0.8	-	11	11	-	10	-
NCQ2B32-□S	28	33	-	16	45	5.5	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 deep 7	M5×0.8 1/8"	-	11.5	10.5	49.5	18	-
NCQ2B40-□S	34.5	39.5	-	16	52	8	8	M8×1.25	13	69	5	14	7	40	5.5	9 deep 7	1/8"	-	11	11	57	18	-
NCQ2B50-□S	-	40.5	50.5	20	64	10.5	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 deep 8	-	1/4	10.5	10.5	71	22	-

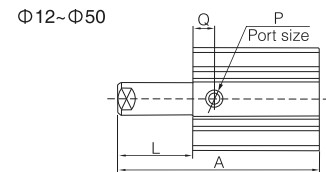
Piston rod external thread



Two end screw hole installation type/NCQ2A



Single action/Spring extrusion



Bore size(mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	8	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

Bore size(mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.15	22

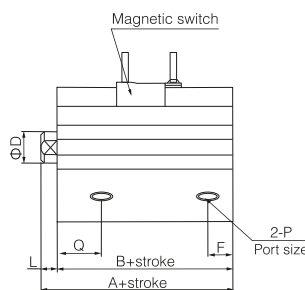
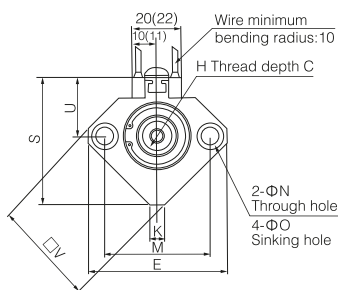
Bore size (mm)	A			L		
	5st	10st	20st	5st	10st	20st
12	30.5	40.5	-	8.5	13.5	-
16	32	42	-	8.5	13.5	-
20	34	44	-	9.5	14.5	-
25	37.5	47.5	-	10	15	-
32	40	50	-	12	17	-
40	46.5	56.5	-	12	17	-
50	-	58.5	78.5	-	18	28

Note: Unless other specified, the size of through-hole cylinders is same as that of screw-hole cylinders at both ends.

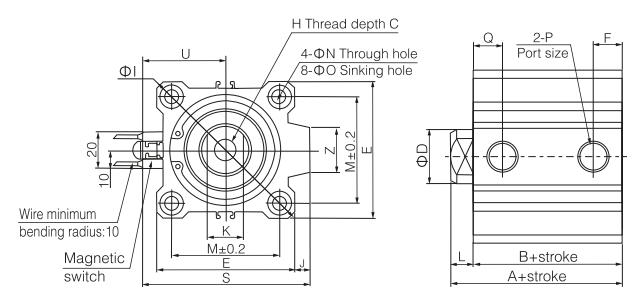
Dimensions

NCDQ2B

Φ12~Φ25



Φ32~Φ100



Model	Stroke range(mm)	A	B	ΦD	E	F	H	C	ΦI	J	K	L	M	ΦN	ΦO	P	Q	S	U	V	Z
NCDQ2B12	5~30	31.5	28	6	32	6.5	M3×0.5	6	-	-	5	3.5	22	3.5	6.5 deep 3.5	M5×0.8	11	35.5	19.5	25	-
NCDQ2B16	5~30	34	30.5	8	38	5.5	M4×0.7	8	-	-	6	3.5	28	3.5	6.5 deep 3.5	M5×0.8	10	41.5	22.5	29	-
NCDQ2B20	5~50	36	31.5	10	46.8	5.5	M5×0.8	7	-	-	8	4.5	36	5.5	9 deep 7	M5×0.8	10.5	48	24.5	36	-
NCDQ2B25	5~50	37.5	32.5	12	52	5.5	M6×1.0	12	-	-	10	5	40	5.5	9 deep 7	M5×0.8	11	53.5	27.5	40	-
NCDQ2B32	5~50	40	33	16	45	7.5	M8×1.25	13	60	4.5	14	7	34	5.5	9 deep 7	1/8"	10.5	58.5	31.5	-	18
NCDQ2B40	5~50	46.5	39.5	16	52	8	M8×1.25	13	69	5	14	7	40	5.5	9 deep 7	1/8"	11	66	35	-	18
NCDQ2B50	10~50	48.5	40.5	20	64	10.5	M10×1.5	15	86	7	17	8	50	6.6	11 deep 8	1/4"	10.5	80	41	-	22
NCDQ2B63	10~50	54	46	20	77	10.5	M10×1.5	15	103	7	17	8	60	9	14 deep 10.5	1/4"	15	93	47.5	-	22
NCDQ2B80	10~50	63.5	53.5	25	98	12.5	M16×2.0	21	132	6	22	10	77	11	17.5 deep 13.5	3/8"	16	112.5	57.5	-	26
NCDQ2B100	10~50	75	63	30	117	13	M20×2.5	27	156	6.5	27	12	94	11	17.5 deep 13.5	3/8"	23	132.5	67.5	-	26

Long stroke Note 2)

Model	stroke(mm)	A	B	F	P	Q
32	75,100	40	33	7.5	1/8"	10.5
40	75,100	46.5	39.5	8	1/8"	11
50	75,100	48.5	40.5	10.5	1/4"	10.5
63	75,100	54	46	10.5	1/4"	15
80	75,100	63.5	53.5	12.5	3/8"	16
100	75,100	75	63	13	3/8"	23

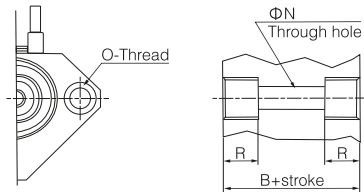
Note: 1. Standard stroke is 5 mm apart.

2. Intermediate stroke (55, 60, 65, 70, 80, 85, 90, 95) between 55mm and 100mm plus 5, 10, 15 or 20mm thick pads.

3. Unless other specified, the dimensions of through-hole cylinders are the same as those of screw-hole cylinders at both ends.

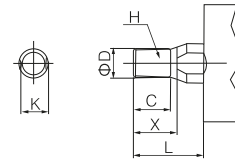
4. Only one magnetic switch can be installed in a 5 mm stroke cylinder.

Screw holes at both ends: NCDQ2A Note 3)



Bore size(mm)	O	R
12	M4×0.7	7
16	M4×0.7	7
20	M6×1.0	10
25	M6×1.0	10
32	M6×1.0	10
40	M6×1.0	10
50	M8×1.25	14
63	M10×1.5	18
80	M12×1.75	22
100	M12×1.75	22

External threads at rod end

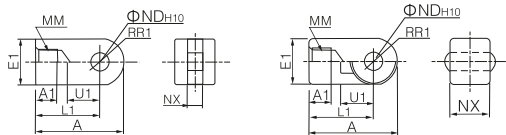


Bore size(mm)	C	X	ΦD	H	L	K
12	9	10.5	6	M5×0.8	14	5
16	10	12	6	M6×1.0	15.5	6
20	12	14	10	M8×1.25	18.5	8
25	15	17.5	12	M10×1.25	22.5	10
32	20.5	23.5	16	M14×1.5	28.5	14
40	20.5	23.5	16	M14×1.5	28.5	14
50	26	28.5	20	M18×1.5	33.5	17
63	26	28.5	20	M18×1.5	33.5	17
80	32.5	35.5	25	M22×1.5	43.5	22
100	32.5	35.5	30	M26×1.5	43.5	27

I Type single toggle joint

I-G012, I-Z015A
I-G012, I-G03A

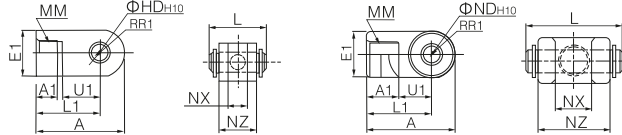
I-G04, I-G05
I-G08, I-G10



Y Type double toggle joint

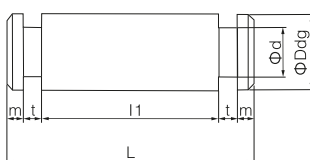
Y-G012, Y-Z015A
AY-G02, Y-G03

Y-G04, Y-G05
Y-G08, Y-G10



Applicable bore size (mm)	I Type single toggle joint										Y Type double toggle joint											
	Part No.	A	A1	E1	L1	MM	RR1	U1	NDH10	NX	Part No.	A	A1	E1	L1	MM	RR1	U1	ΦNDH10	NX	NZ	L
12	I-G012	21.5	6	□10	16	M5×0.8	6.3	7	5 ^{+0.048} ₀	5 ^{-0.2} _{-0.4}	Y-G012	21.5	6	□10	16	M5×0.8	6.3	7	5 ^{+0.048} ₀	5 ^{+0.4} _{+0.2}	10	14.6
16	I-Z015A	32	8	□12	25	M6×1	8.1	14	5 ^{+0.048} ₀	6.4 ^{-0.1} _{-0.3}	Y-Z015A	28	11	□12	21	M6×1	8.1	10	5 ^{+0.048} ₀	6.5 ^{+0.4} _{+0.2}	12	16.6
20	I-G02	34	8.5	□16	25	M8×1.25	10.3	11.5	8 ^{+0.058} ₀	8 ^{-0.2} _{-0.4}	Y-G02	34	8.5	□16	25	M8×1.25	10.3	11.5	8 ^{+0.058} ₀	8 ^{+0.4} _{+0.2}	16	21
25	I-G03	41	10.5	□20	30	M10×1.25	12.8	14	10 ^{+0.058} ₀	10 ^{-0.2} _{-0.4}	Y-G03	41	10.5	□20	30	M10×1.25	12.8	14	10 ^{+0.058} ₀	10 ^{+0.4} _{+0.2}	20	25.6
32,40	I-G04	42	14	Φ22	30	M14×1.5	12	14	10 ^{+0.058} ₀	18 ^{-0.3} _{-0.5}	Y-G04	42	16	Φ22	30	M14×1.5	12	14	10 ^{+0.058} ₀	18 ^{+0.5} _{+0.3}	36	41.6
50,63	I-G05	56	18	Φ28	40	M18×1.5	16	20	14 ^{+0.070} ₀	22 ^{-0.3} _{-0.5}	Y-G05	56	20	Φ28	40	M18×1.5	16	20	14 ^{+0.070} ₀	22 ^{+0.5} _{+0.3}	44	50.6
80	I-G08	71	21	Φ38	50	M22×1.5	21	27	18 ^{+0.070} ₀	28 ^{-0.3} _{-0.5}	Y-G08	71	23	Φ38	50	M22×1.5	21	27	18 ^{+0.070} ₀	28 ^{+0.5} _{+0.3}	56	64
100	I-G10	79	21	Φ44	55	M26×1.5	24	31	22 ^{+0.084} ₀	32 ^{-0.3} _{-0.5}	Y-G10	79	24	Φ44	55	M26×1.5	24	31	22 ^{+0.084} ₀	32 ^{+0.5} _{+0.3}	64	72

Toggle joint pins



Applicable bore size (mm)	Toggle joint pins						
	Part No.	ΦDdg	L	Φd	l	m	t
12	IY-G012	5 ^{-0.030} _{-0.060}	14.6	4.8	10.2	1.5	0.7
16	IY-J015	5 ^{-0.030} _{-0.060}	16.6	4.8	12.2	1.5	0.7
20	IY-G02	8 ^{-0.040} _{-0.076}	21	7.6	16.2	1.5	0.9
25	IY-G03	10 ^{-0.040} _{-0.076}	25.6	9.6	20.2	1.55	1.15
30, 40	IY-G04	10 ^{-0.040} _{-0.076}	41.6	9.6	36.3	1.55	1.15
50, 63	IY-G05	14 ^{-0.050} _{-0.093}	50.6	13.4	44.2	2.05	1.15
80	IY-G08	18 ^{-0.050} _{-0.093}	64	17	56.2	2.55	1.35
100	IY-G10	22 ^{-0.065} _{-0.117}	72	21	64.2	2.55	1.35

Cylinder

SC

SC(Big)

SCT

SCF

SU

SUF

SI

SIF

DNC

QGB

QGBZ

NCQ2

NCQ2(Big)

NCQ2(Long)

NCQS

NCQM

NRQ

SDA

ADVU

ACE(AND)

MAL

MA

MI

NCM2

NCJ2

NCG1

NCJP

TD

TN(TDA)

NCXS

NCXSW

NMGP

NMGG

NCU

NCUJ

NCY3B

NCY3R

NCY1S

NCY1L

STM

NMXH

NMXS

NMXQ

NMHZ2

NMHC2

NMHL2

NMHY2

NMHT2

NMHW2

NMHF2

NMHS2

NMHS3

NMHS4

NMRHQ

NMSQ

NCRA1

NCRQ2

NCRB2

ACK

SRC

QCK

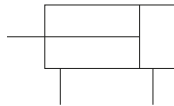
NCK1

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1



Symbol

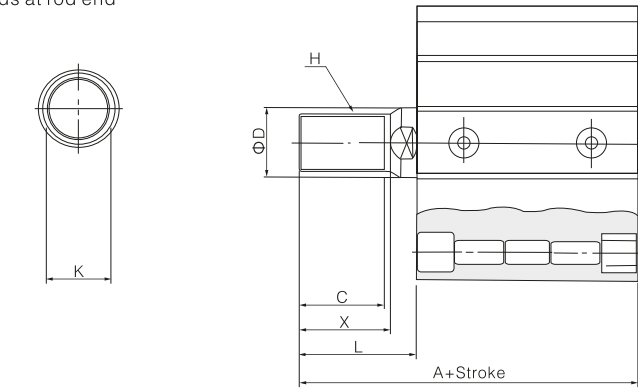


Ordering code

N C D Q2		B	125	-	30	D	C	Options		A73
Built in magnetic ring		Bore size								
Blank	No built-in magnetic ring	125		125mm				Blank		
		140		140mm				Standard (rod end internal thread)		
		160		160mm				M		
		180		180mm				Rod end male thread		
		200		200mm						
D	Built-in magnet ring							Magnetic switch type		
								Blank		
								Without magnetic switch		
Piston rod form								* Refer to tour/magnetic switch model list for magnetic switch model		
Blank	Single rod							* No built-in magnetic ring cylinder no such item		
W	Double rod							Number of magnetic switches		
								Blank		
								2 pcs.		
								S		
								1 pc.		
								n		
								"n" pcs.		
Installation form										
Through holes and screw holes at both ends can be used.										
		</								

NCQ2B/NCQ2B

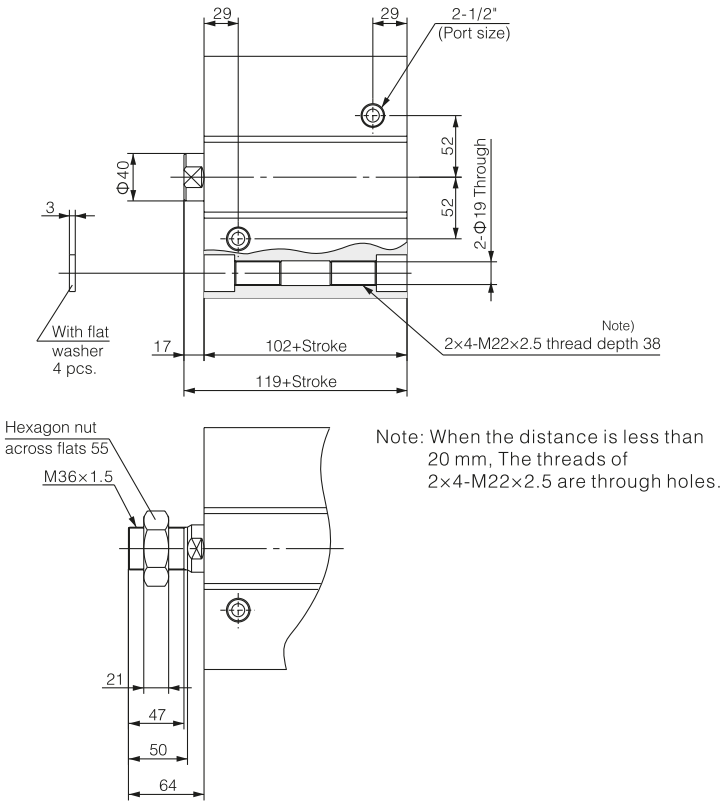
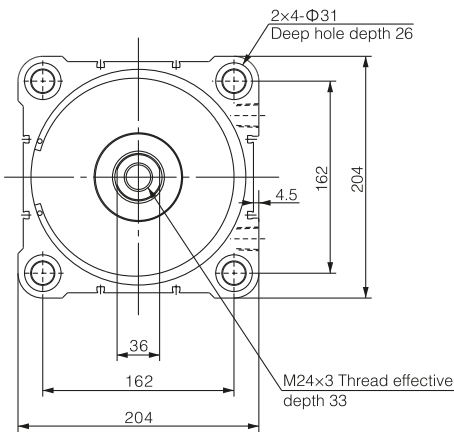
External threads at rod end



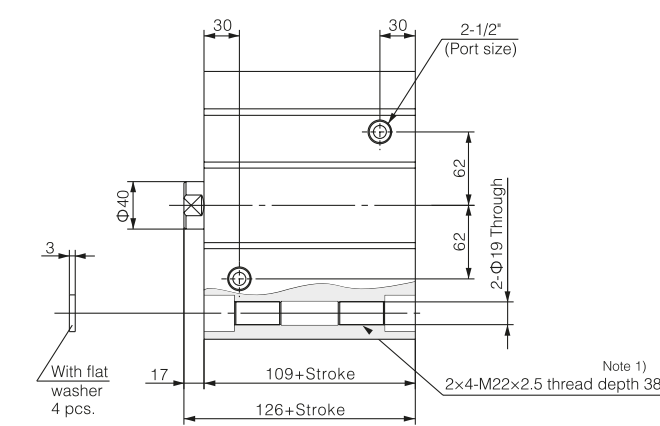
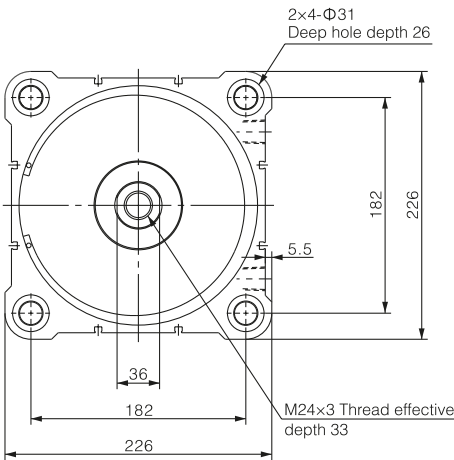
External threads at rod end

Bore size(mm)	A	C	ΦD	H	K	L	X
125	141	42	36	M30×1.5	32	58	45
140	141	42	36	M30×1.5	32	58	45
160	155	47	40	M36×1.5	36	64	50

$\Phi 180$



$\Phi 200$



Cylinder

SC

SC(Big)

SCT

SCF

SU

SUF

SI

SIF

DNC

QGB

QGBZ

NCQ2

NCQ2(Big)

NCQ2(Long)

NCQS

NCQM

NRQ

SDA

ADVU

ACE(AND)

MAL

MA

MI

NCM2

NCJ2

NCG1

NCJP

TD

TN(TDA)

NCXS

NCXSW

NMGP

NMGG

NCU

NCUJ

NCY3B

NCY3R

NCY1S

NCY1L

STM

NMXH

NMXS

NMXQ

NMHZ2

NMHC2

NMHL2

NMHY2

NMHT2

NMHW2

NMHF2

NMHS2

NMHS3

NMHS4

NMRHQ

NMSQ

NCRA1

NCRQ2

NCRB2

ACK

SRC

QCK

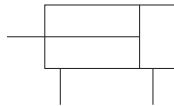
NCK1

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)



Symbol



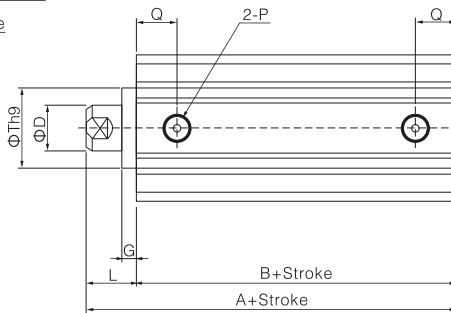
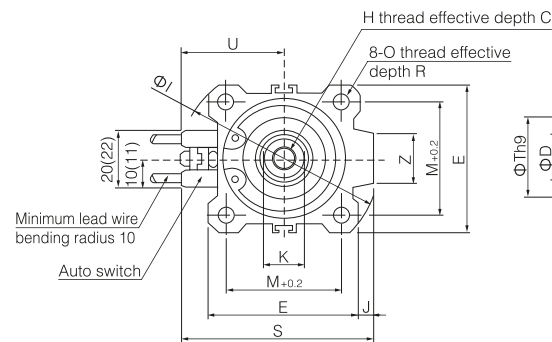
Ordering code

N C D Q2 A 32 - 200 D C		Options		A73	
Built in magnetic ring		Bore size		Options	
Blank		32 32mm		Blank	
D		40 40mm		Standard (rod end internal thread)	
		50 50mm		M	
		63 63mm		Rod end male thread	
		80 80mm		Magnetic switch type	
		100 100mm		Blank	
Installation form		Stroke		Without magnetic switch	
A		See the right table		* Refer to tour/magnetic switch model list for magnetic switch model	
F				* No built-in magnetic ring cylinder no such item	
G				Double action	
L				Number of magnetic switches	
D				Blank	
				S	
				n	
Piping mode		Rubber cushion		2 pcs.	
Blank				1 pc.	
F*				"n" pcs.	
Thread piping					
Built-in quick joint					

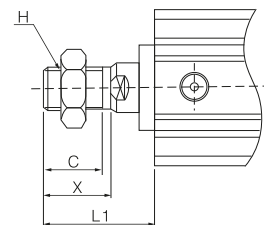
* Only phi Φ32~Φ63

Dimensions

Rod end female thread NCQ2A/NCDQ2A



Rod end male thread



() The dimensions of magnetic switches other than D-A7 are in parentheses.

Bore size (mm)	Stroke (mm)	Rod end female thread																			Rod end male thread				
		A	B	C	D	E	G	H	I	J	K	L	M	O	P	Q	R	S	Th9	U	Z	C	H	L1	X
32	125, 150 175, 200 250, 300	62.5	45.5	13	16	45	5	M8×1.25	60	4.5	14	17	34	M6×1.0	1/8"	12.5	10	58.5	22 ⁰ _{-0.052}	31.5	14	20.5	M14×1.5	38.5	23.5
40		72	55	13	16	52	5	M8×1.25	69	5	14	17	40	M6×1.0	1/8"	14	10	66	28 ⁰ _{-0.052}	35	14	20.5	M14×1.5	38.5	23.5
50		73.5	55.5	15	20	64	5	M10×1.5	86	7	17	18	50	M8×1.25	1/4"	14	14	80	35 ⁰ _{-0.062}	41	19	26	M18×1.5	43.5	28.5
53		75	57	15	20	77	5	M10×1.5	103	7	17	18	60	M10×1.5	1/4"	16.5	18	93	35 ⁰ _{-0.062}	47.5	19	26	M18×1.5	43.5	28.5
80		86	66	21	25	98	5	M16×2.0	132	6	22	20	77	M12×1.75	3/8"	19	22	112.5	43 ⁰ _{-0.062}	57.5	26	32.5	M22×1.5	53.5	35.5
100		97.5	75.5	27	30	117	5	M20×2.5	156	6.5	27	22	94	M12×1.75	3/8"	23	22	132.5	59 ⁰ _{-0.074}	67.5	26	32.5	M26×1.5	53.5	35.5

Specifications

Bore size(mm)	32	40	50	63	80	100
Use fluid	Air (to be filtered by 40μm filter element)					
Action mode	Double acting					
Proof pressure	1.5MPa					
Maximum operating pressure	1.0MPa					
Minimum operating pressure	0.05MPa					
Ambient and fluid temperature	Without auto switch: -10 to 70℃ (No freezing) With auto switch: -10 to 60℃ (No freezing)					
Rod end thread	Internal thread (standard), external thread (optional)					
Use piston speed	50~500mm/s					
Cushion	Standard rubber buffer					
Stroke tolerance (mm)	+1.4 0					
Lubrication	Don't need					
Installation form	Screw holes at both ends (standard)					
Pipe size	1/8"		1/4"		3/8"	

Note: If oil is supplied, please use turbine No.1 oil ISOVG32.

Stroke/magnetic switch type table

Bore size (mm)	Standard stroke (mm)	*Magnetic switch type		
		Two wire contact control	Two wire contactless control	Three wire NPN
32	125, 150 175, 200 250, 300	3C-D-A93(V)L	O-M9B(V)L	D-M9N(V)L
40				
50				
63				
80				
100				

* The specifications and characteristics of magnetic switches can be referred to the series of magnetic switches.
The type of installation is BQ-2.

* The length of conductor is denoted as mark: no mark - 0.5m, L - 3m. Example: A73, A73L.