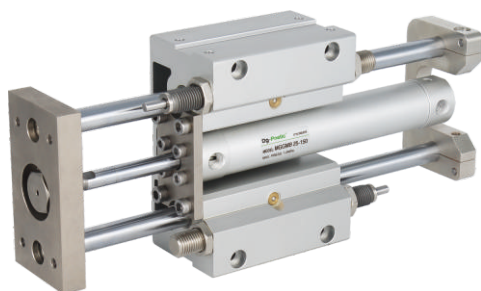


Cylinder

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
NCRA2
NCRB2
ACK
SRC
QCK
NCK1



1. Built-in hydraulic buffer
2. With travel adjustment mechanism
3. Strong lateral load resistance
4. High accuracy without rotation
5. Bearings with guide rods can be selected as sliding bearings or ball bearings

Specifications

Bore size(mm)		20	25	32	40	50	63	80	100
Fluid		Air (to be filtered by 40μm filter element)							
Action		Double acting							
Maximum operating pressure		1.0MPa							
Minimum operating pressure		0.15MPa							
Ambient and fluid temperature		-10 to 60℃ (No freezing)							
Piston speed (mm/s)		50~1000						50~700	
Cushion		Built-in shock absorbers (2 pcs.)							
Stroke length tolerance (mm)		~1000 ^{+1.9} _{+0.2}				1001~1300 ^{+2.3} _{+0.2}			
Stroke adjusting range (One side)(mm)		0~-10		0~-15					
Maximum energy absorption (J)		5.88		19.6		58.8		147	
Lubrication Note)		Not required (Non-lube)							
Bearing		Slide bearing/Ball bushing bearin							
Non-rotation accuracy of piston rod	Slide bearing	±0.07°	±0.06°	±0.06°	±0.05°	±0.04°	±0.04°	±0.04°	±0.03°
	Ball bushing bearing	±0.06°	±0.05°	±0.04°	±0.04°	±0.04°	±0.03°	±0.03°	±0.02°
Port size		1/8"				1/4"		3/8"	1/2"

Note: 1. If lubrication is required, please use turbine No. 1 oil ISO VG32.
2. PT thread, G thread and NPT thread are available.

Ordering code

NMGG L		B	32	-	100	-	C73	
Bearing type		Bore size		Stroke		Number of magnetic switches		
M	Slide bearing	20	20mm	Refer to stroke table for details		Blank	2 pcs.	
L	Ball bushing	25	25mm			S	1 pc.	
		32	32mm			n	"n" pcs.	
		40	40mm					
Mounting type		50	50mm			Magnetic switch type		
B	Basic type	63	63mm			Blank	Without magnetic switch	
F	Front mounting flange type	80	80mm			* Magnetic switch type refer stroke /Magnetic switch model table		
		100	100mm					

Stroke/magnetic switch model table

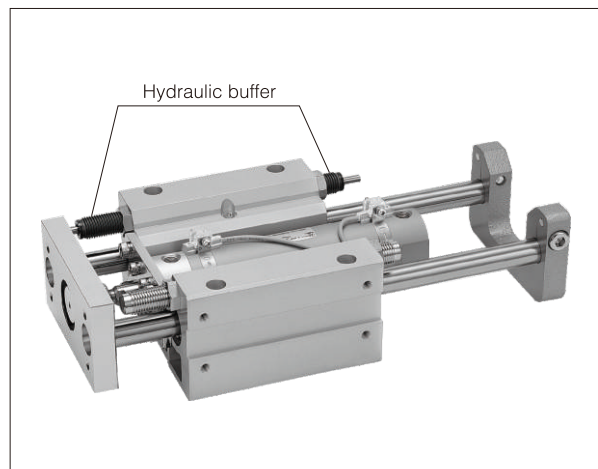
Bore size (mm)	Standard stroke	Long stroke (mm)	Magnetic switch model (Ring installation) Note)
20	75,100,125,150,200	250,300,350,400	C73
25		350,400,450,500	
32		350,400,450,500,600	
40		350,400,450,500,600,700,800	
50	75,100,125	350,400,450,500,600,700,800,900,1000	
63	150,200 250,300	350,400,450,500,600,700,800,900,1000,1100	B54
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	

Note: The specifications and characteristics of magnetic switches can be referred to the series of magnetic switches.
Wire length representation mark: no mark-0.5m, L-3m, Z-5m, Example: C73, C73L.

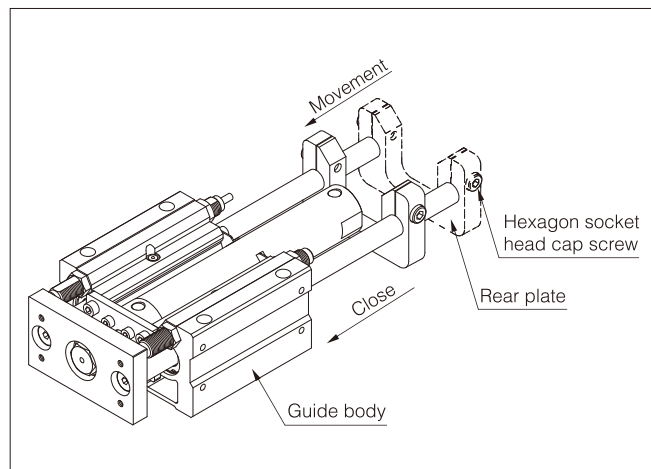
Magnetic switch installation type

Magnetic switch type	Bore size(mm)							
	20	25	32	40	50	63	80	100
D-C7 · H7	BMA2-020	BMA2-025	BMA2-032	BMA2-040	BMA2-050	BMA2-063	-	-
D-B5 · G5 · K5	BA-01	BA-02	BA-32	BA-04	BA-05	BA-06	BA-08	BA-10

Built-in hydraulic buffer

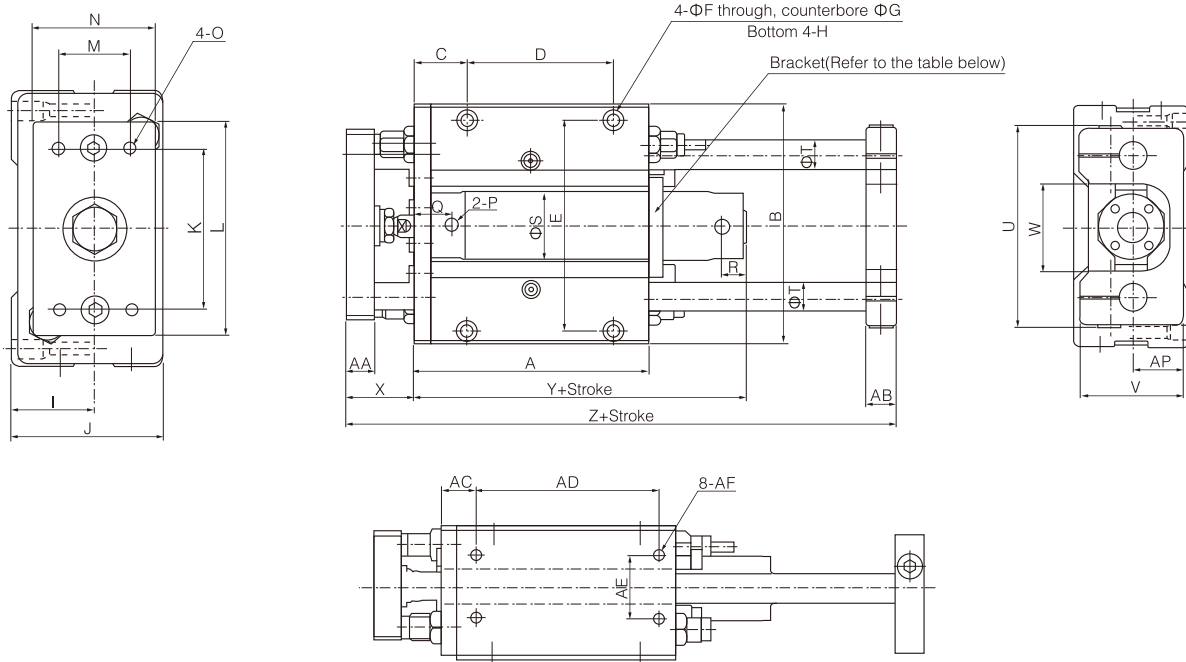


Stroke adjustment device

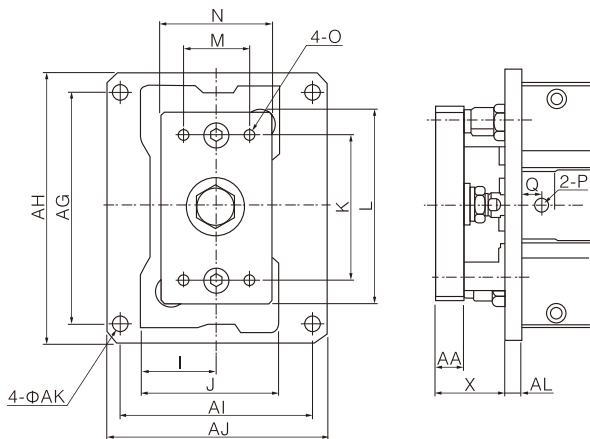


Dimensions

Basic type NMGG□B Φ20~Φ50



Flange type NMGG□F Φ20~Φ50



Bore size (mm)	Flange type							
	Q	X	AG	AH	AI	AJ	AK	AL
20	21	30	112	125	82	95	6.6	9
25	21	37	134	150	92	108	9	9
32	21	37	134	150	102	118	9	9
40	25	44	170	186	134	150	9	12
50	26	55	190	210	140	160	11	12

Bore size (mm)	Stroke range (mm)	A	AA	AB	AC	AD	AE	AF	AP	B	C	D	E	F	G	H	I	J	K	L	M	N
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	30	55	60	80	25	45
25	75, 100, 125, 150, 200, 250 300	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	35	65	70	100	35	54
32		129	16	16	19	100	35	M6×1 depth 12	35	135	29	80	118	6.6	11 depth 8	M10×1.5 depth 18	40	73	80	106	35	60
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	93	95	134	50	75
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	55	103	115	152	56	90

Bore size (mm)	O	P	Q	R	S	T	U	V	W	X	Y	Z
20	M6×1 depth 9	1/8"	21	12	26	12	82	48	40	30	80	157
25	M6×1 depth 13	1/8"	21	12	31	13	100	57	46	37	80	175
32	M6×1 depth 13	1/8"	21	12	38	16	114	65	52	37	82	201
40	M8×1.25 depth 16	1/8"	25	12	47	20	138	84	62	44	92	238
50	M10×1.5 depth 21	1/4"	26	14	58	25	164	94	75	55	104	285

Long stroke

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

Brackets are attached for more than the following journeys

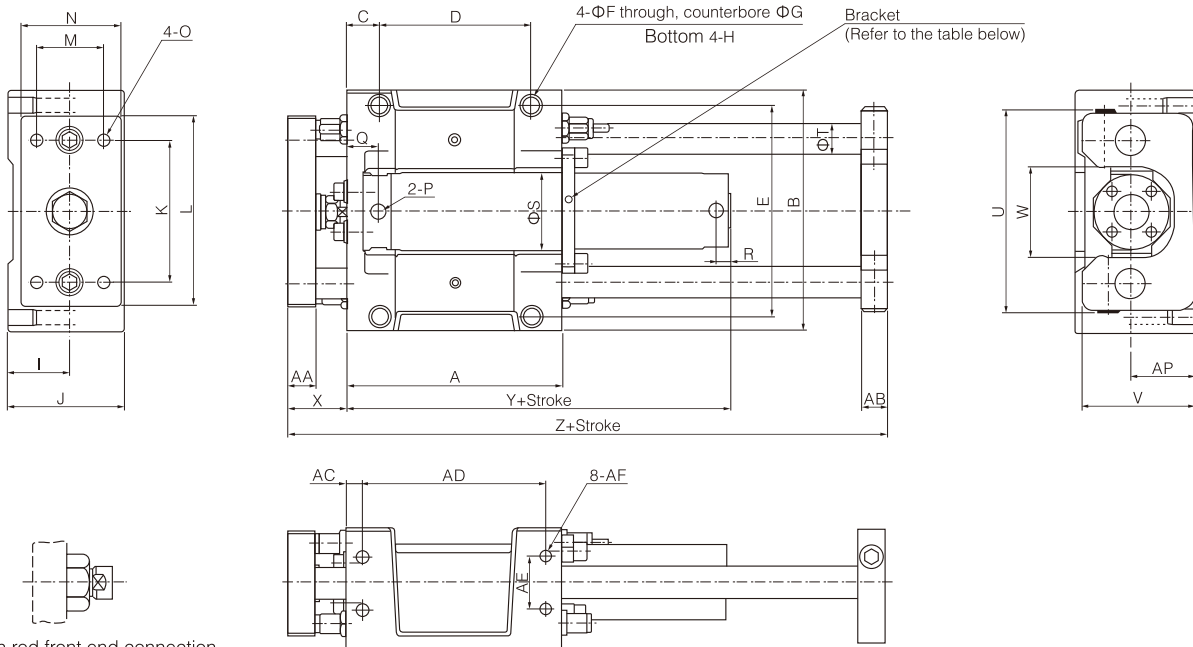
Bore size (mm)	Bracket mounting stroke
20	100 st or more
25	125 st or more
32	150 st or more
40	200 st or more
50	250 st or more

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

Basic type NMGG□B Φ63~Φ100



Φ100 Piston rod front end connection

Bore size (mm)	Stroke range (mm)	A	AA	AB	AC	AD	AE	AF	AP	B	C	D	E	F	G	H	I	J	K	L	M	N
63	75,100,125,150,	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	65	117	135	180	66	100
80	200,250,300	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	75	138	160	214	76	115
100		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	85	153	190	245	80	125

Long stroke

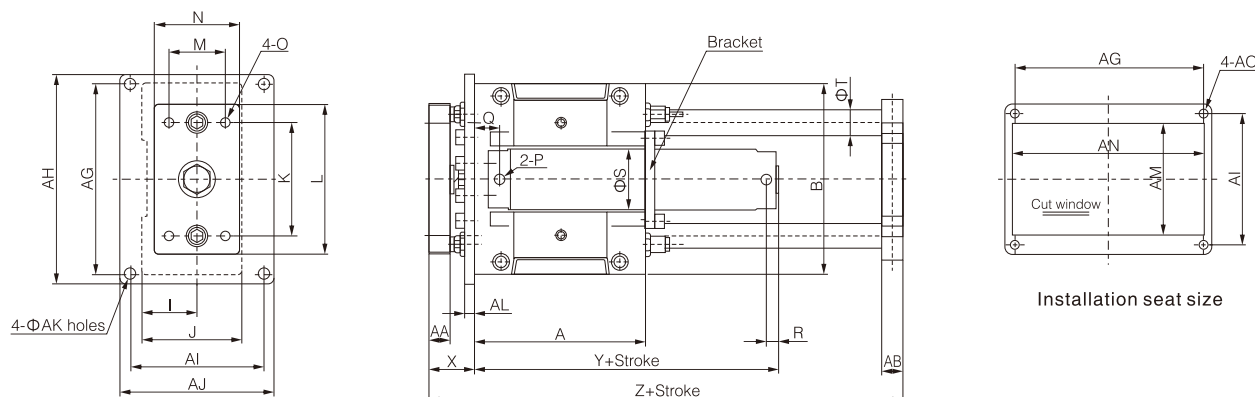
With bracket stroke

Bore size (mm)	O	P	Q	R	S	T	U	V	W	X	Y	Z
63	M12×1.75 depth 23	1/4"	29	14	72	30	192	108	86	54	107	308
80	M12×1.75 depth 28	3/8"	40	19	89	35	224	128	104	66	131	355
100	M14×2 depth 30	1/2"	40	19	110	40	262	143	128	66	131	410

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

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

Front mounting flange type NMGG□F Φ63~Φ100



Installation seat size

Bore size(mm)	AL	AH	AG	AI	AJ	AK	AM	AN	AO
63	12	250	228	158	180	14	135	234	M12
80	16	284	262	178	200	14	155	268	M12
100	16	326	300	200	226	16	175	310	M14

* Unmarked dimensions same as table above