MCGA series Push type

TWIN-GUIDE CYLINDER

Features

- Long stroke type of the anti-turn accuracy, impoved by integrating the guides and cylinder.
- Linear bearing type available for high accuracy in the high speed work.
- On the link bar at the top, Many thread holeas for mounting attachments are provided for easy mounting.
- Lift type of long stroke is available by replacing the link bar with table plate.
- Magnetic as standard.

Order example

MCGA — 23 — 20 — 50 — G

MODEL | TUBE I.D. | STROKE | PORT THREAD

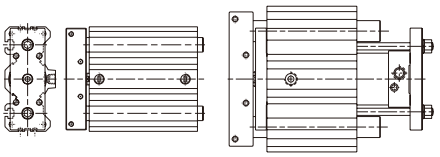
PURPOSE / TYPE OF BEARING

Code	Purpose / Type of bearing
23	Push / Linear bearing
63	Push / Slide bush

PORT THREAD

Blank: Rc thread
G: G thread
NPT: NPT thread

Specification

Model	MCGA					
Model	 (for 23/63 type ø80 stroke over 100mm)					
Acting type	Double acting					
Tube I.D. (mm)	20	32	40	50	63	80
Port size (Rc)	1/8	1/4 (1/8)	1/4 (1/8)	3/8 (1/4)	3/8	3/8
Medium	Air					
Operating perssure range	0.1~1 MPa					
Proof pressure	1.5 MPa					
Lubrication	Not required					
Cushion	With rubber cushion pad					
Ambient temperature	-5~+60°C (No freezing)					
Available speed range	50~500 mm/sec					
Sensor switch (*)	RCB					

(): For MCGA-23 type, stroke 30~100mm.
* RCB specification, please refer to page 8-8.

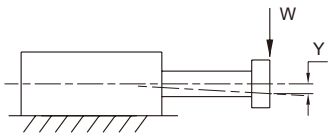
Table for standard stroke

Series variety (Bearing type)	Tube I.D.	Stroke (mm)										
		30	50	75	100	200	300	350	400	500	600	700
MCGA-23 (Linear bearing)	ø20	●	●	●	●	●	●					
	ø32	●	●	●	●	●	●	●				
	ø40	●	●	●	●	●	●	●				
	ø50		●	●	●	●	●	●				
	ø63				●	●	●	●				
	ø80				●	●	●	●	●	●	●	●
MCGA-63 (Slide bush)	ø20					●	●					
	ø32					●	●	●				
	ø40					●	●	●				
	ø50					●	●	●				
	ø63					●	●	●				
	ø80					●	●	●	●	●	●	●

- Stroke out of specification is also available, please consult us.
- Tube I.D. ø20~ø63 the max stroke is 350mm.

Capacity graph

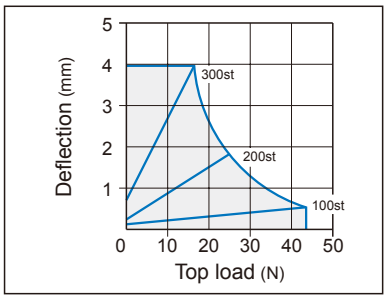
Capacity for the use as a pusher



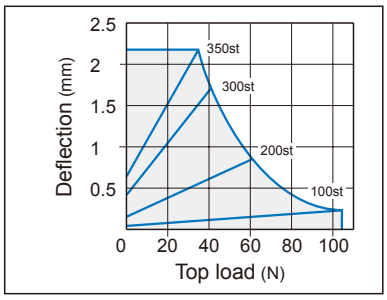
MCGA-23 / MCGA-63, deflection and allowable top load.

- In the actual operation, load at the top should be below the allowable top load.
- Y—Deflection
- W—Allowable top load

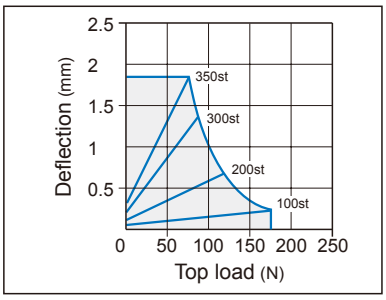
MCGA-23...ø20



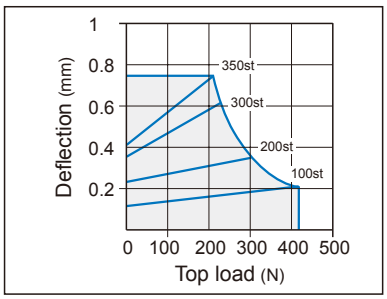
MCGA-23...ø32



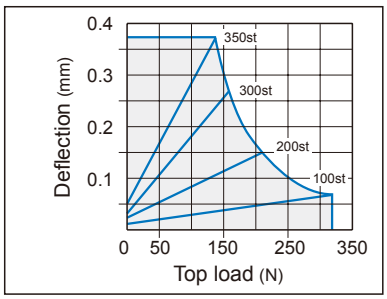
MCGA-23...ø40



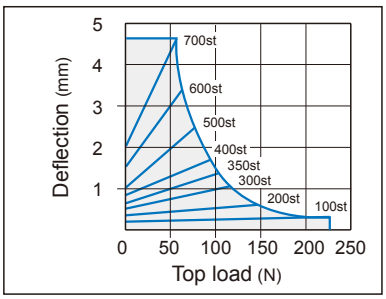
MCGA-23...ø50



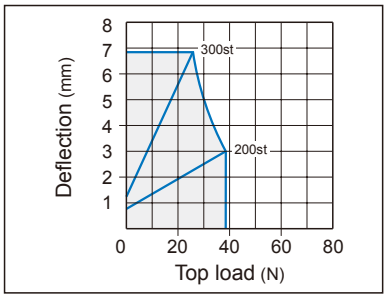
MCGA-23...ø63



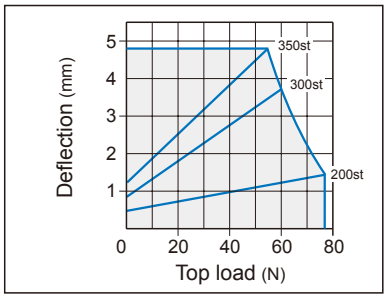
MCGA-23...ø80



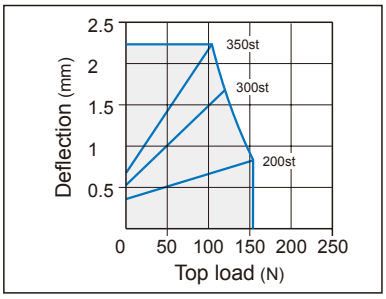
MCGA-63...ø20



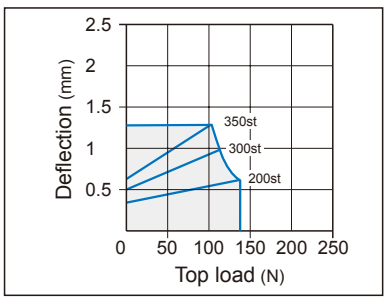
MCGA-63...ø32



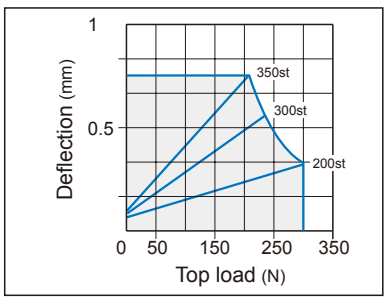
MCGA-63...ø40



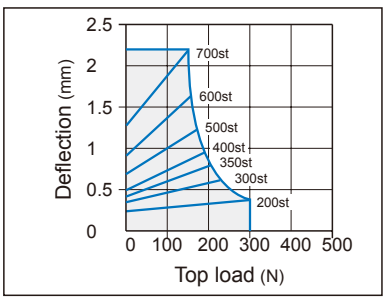
MCGA-63...ø50



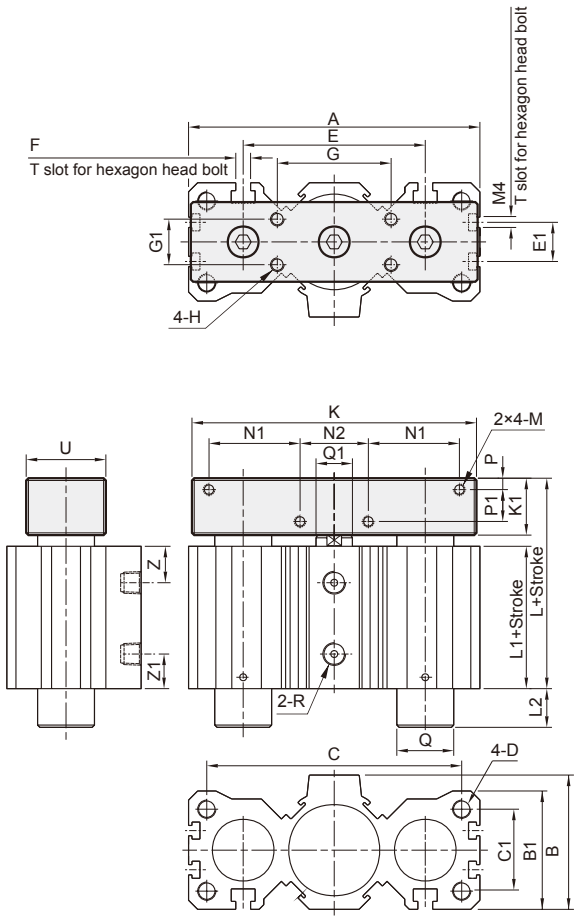
MCGA-63...ø63



MCGA-63...ø80

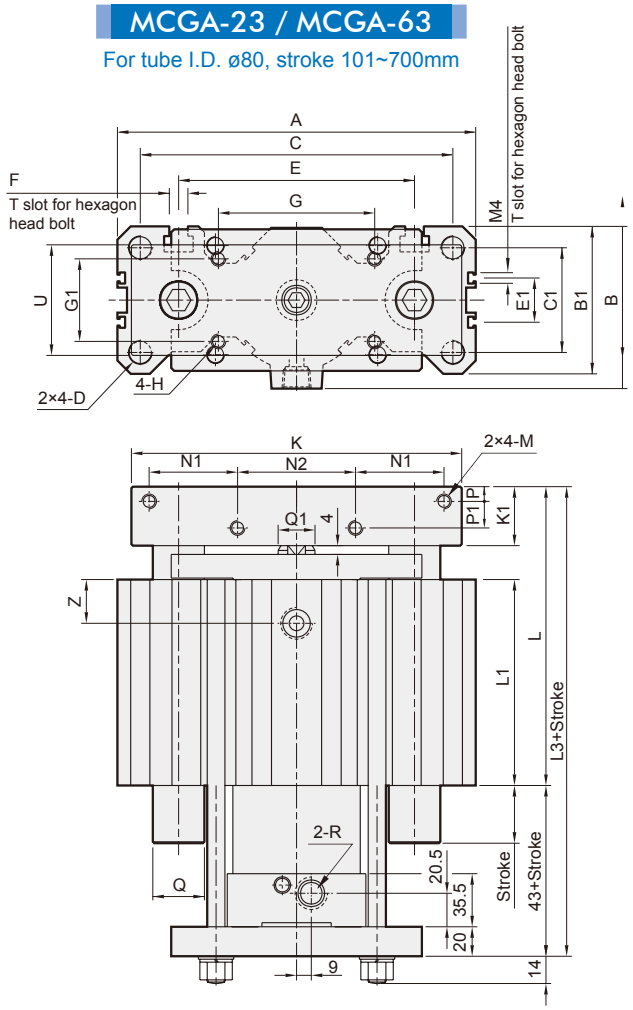


MCGA-23 / MCGA-63



MCGA-23 / MCGA-63

For tube I.D. ø80, stroke 101~700mm



MCGA-23 / MCGA-63

Code / Tube I.D.	A	B	B1	C	C1	D	E	E1	F	G	G1	H	K	K1	L	L1	L2	M	N1	N2	P	P1	Q	Q1	R	U	Z	Z1
20	75	34	32	63	20	M5×0.8×15dp	45	—	M4	32	16	M5×0.8×10dp	75	15	54	36	18	M4×0.7×8dp	22.5	20	4	6	ø8	ø10	Rc1/8	25	11	10
32	106	51.5	45	90	30	M8×1.25×20dp	63	—	M6	40	18	M6×1.0×12dp	100	20	66.5	41.5	29.5	M5×0.8×10dp	32	25	5	9	ø13(ø12)	ø16	Rc1/4 [1/8]	30	12	12
40	128	59	52	112	36	M8×1.25×20dp	80	—	M6	50	20	M6×1.0×12dp	125	25	81	51	30	M5×0.8×10dp	40	30	5	14	ø16	ø16	Rc1/4 [1/8]	35	16	16.5
50	150	69	62	132	45	M10×1.5×25dp	100	20	M8	63	25	M8×1.25×16dp	140	30	87	52	39	M6×1.0×12dp	37.5	50	6	16	ø20	ø20	Rc3/8 [1/4]	40	16	17.5
63	180	87	78	156	53	M12×1.75×30dp	118	25	M10	80	40	M10×1.5×20dp	175	35	100	60	68	M8×1.25×16dp	47.5	60	9	16	ø25	ø20	Rc3/8	60	17.5	21
80	243	110	100	212	71	M16×2.0×40dp	160	30	M12	106	56	M10×1.5×20dp	224	40	110.5	62.5	*	M10×1.5×20dp	60	80	10	18	ø35	ø25	Rc3/8	75	22	19.5

* With stroke 30~75mm **L2**=17.5 , stroke 100mm **L2**=87.5

[ ]: For MCGA-23 type, stroke 30~100mm, ( ): For MCGA-63 type.

MCGA-23 / MCGA-63 Tube I.D. ø80, stroke 101~700mm

Code / Tube I.D.	A	B	B1	C	C1	D	E	E1	F	G	G1	H	K	K1	L	L1	L3	M	N1	N2	P	P1	Q	Q1	R	U	Z	Z1
80	243	110	100	212	71	M16×2.0×40dp	160	30	M12	106	56	M10×1.5×20dp	224	40	213	150	256	M10×1.5×20dp	60	80	10	18	ø35	ø25	Rc3/8	75	40	—