

MEQG-8 series

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



Mindman



Specification

Model	MEQG-8		
Positioning repeatability (mm)	±0.01		
Ball screw lead (mm)	5	10	20
Maximum speed (*1) (mm/s)	250	500	1000
Maximum payload (*2)	Horizontal (kg)	50	30
	Vertical (kg)	15	8
Rated thrust (*3) (N)	683 (1388)	341 (694)	174 (347)
Stroke / pitch (*4) (mm)	50~800 / 50 Pitch		
Motor output (W)	200, 400		
Ball screw spec. (mm)	C7ø16		
Coupling (mm)	10×14/11(*6)		
Home sensor (Outside)	CS-6T (NPN)		
Anti-rotating accuracy (*5) (°)	±0°		

*1. Acceleration and deceleration value is set 0.2 second.

*2. If payload is near maximum, it requires to collocate externally with auxiliary guideway for bearing radial load.

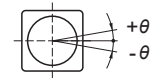
*3. () The value for power output 400W.

*4. When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

*5. Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, play in the internal guide or an increase in the sliding resistance.

*6. Motor 200W shaft diameter: Panasonic: 11mm, Other: 14 mm.

Anti-rotating accuracy of rod



Order example

MEQG-8 — L10 — 100 — BC — M20 — C4

Model

Size

Stroke

50~800 mm
50 mm pitch

Ball screw lead

L05	5 mm
L10	10 mm
L20	20 mm

Motor position

BC	Direct connection
BM	Lower side
BR	Right side
BL	Left side

Motor brand

M	Mitsubishi
	Yaskawa
	Delta
P	Panasonic

Flange face

20	200W
40	400W

Home sensor

Out side	
C	Motor side
D	Opposite motor side
No sensor	
E	None

Limit sensor

Out side	
3	1 Pc
4	2 Pcs
No sensor	
5	None

MEQG-8 Performance charts

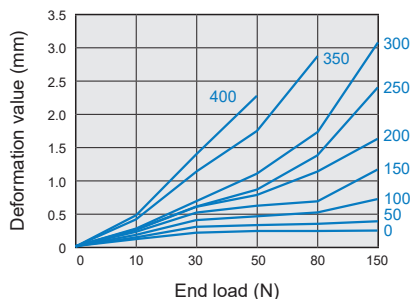
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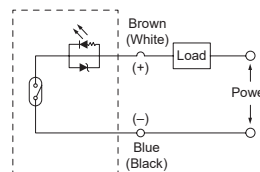
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Shaft output deformation value

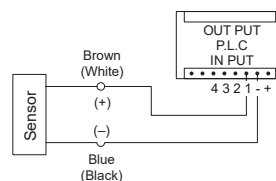
This form is only reference values.



Sensor layout



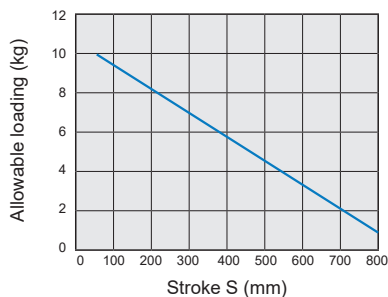
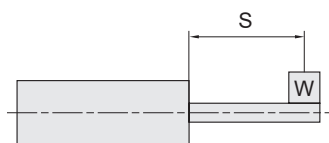
General load:
Such as relay or other
resistive load.



Programmable controller
connection diagram.

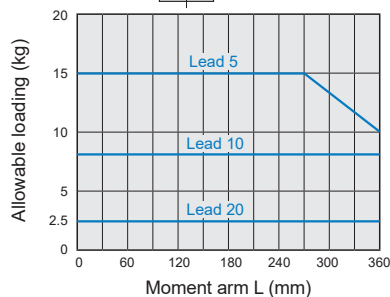
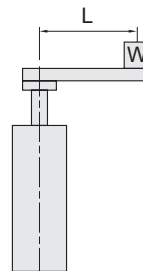
Allowable installation load

No external auxiliary mechanism, extension distance of load = 0



Load in vertical installation

Calculation conditions: 3000 rpm/min, acceleration and deceleration: 0.2s



Standard servo motors

Brand	Mark	Power output	Motor model (Without brake)	Motor model (With brake)	Motor rod dia -shaft length (mm)	Centring collar diameter (mm)	Centring collar depth (mm)	Motor mount P.C.D (mm)	Mounting port (mm)
Mitsubishi	M	200W	HG-KN23J	HG-KN23BJ	ø14-30	ø50	3	ø70	4-ø5.8
		400W	HG-KN43J	HG-KN43BJ	ø14-30	ø50	3	ø70	4-ø5.8
Yaskawa		200W	SGM7J-02A7A21	SGM7J-02A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
		400W	SGM7J-04A7A21	SGM7J-04A7A2C	ø14-30	ø50	3	ø70	4-ø5.5
Delta		200W	ECMA-C20602ES	ECMA-C20602FS	ø14-30	ø50	3	ø70	4-ø5.5
		400W	ECMA-C20604ES	ECMA-C20604FS	ø14-30	ø50	3	ø70	4-ø5.5
Panasonic	P	200W	MHMF022L1U2M	MHMF022L1V2M	ø11-30	ø50	3	ø70	4-ø4.5
		400W	MHMF042L1U2M	MHMF042L1V2M	ø11-30	ø50	3	ø70	4-ø4.5

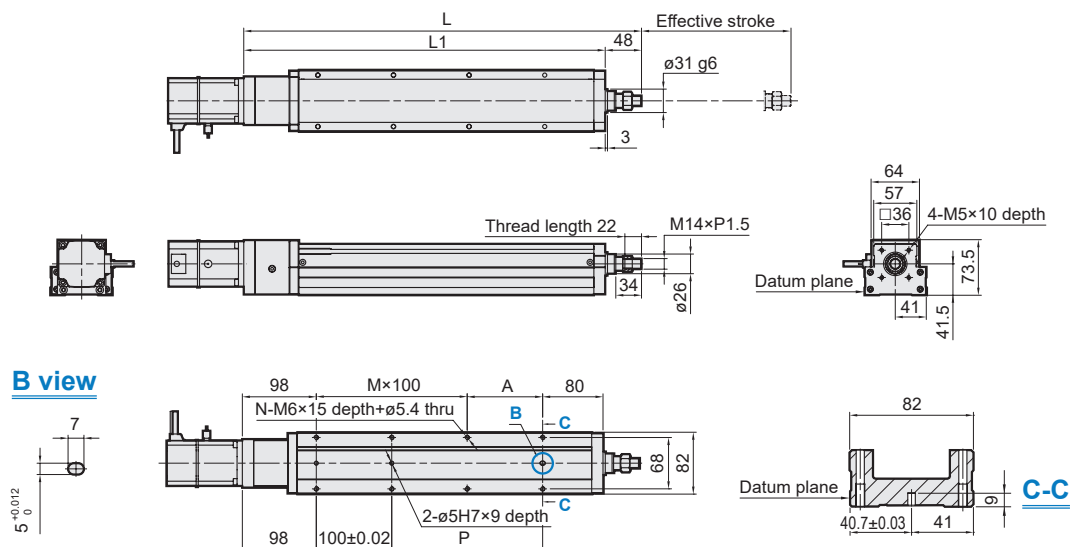
MEQG-8 Dimensions

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



BC

Motor direct connection

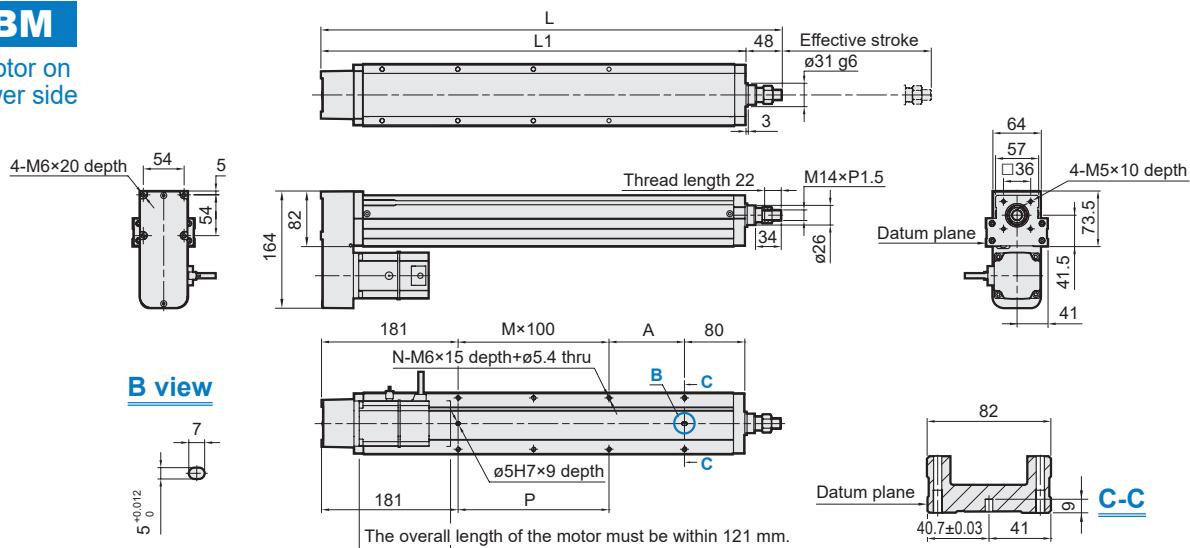


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	376	426	476	526	576	626	676	726	775	826	876	926	976	1026	1076	1126
L1	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.08	5.44	5.81	6.17	6.54	6.9	7.27	7.63	8	8.36	8.73	9.09	9.46	9.82	10.19	10.55

BM

Motor on lower side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	775	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.3	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14

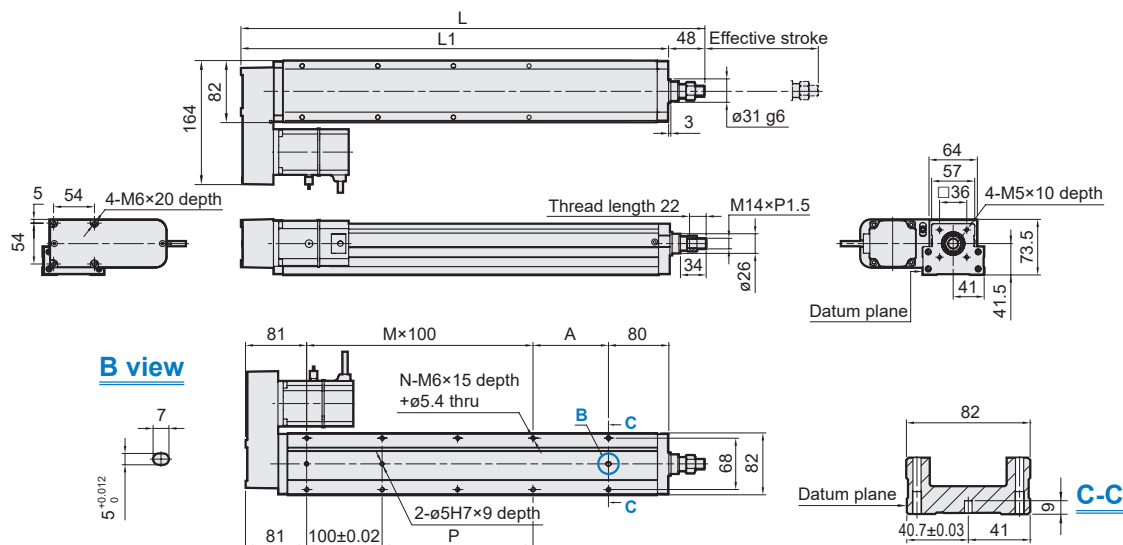
* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact us if you need more information and requirement.

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



BL

Motor on
left side

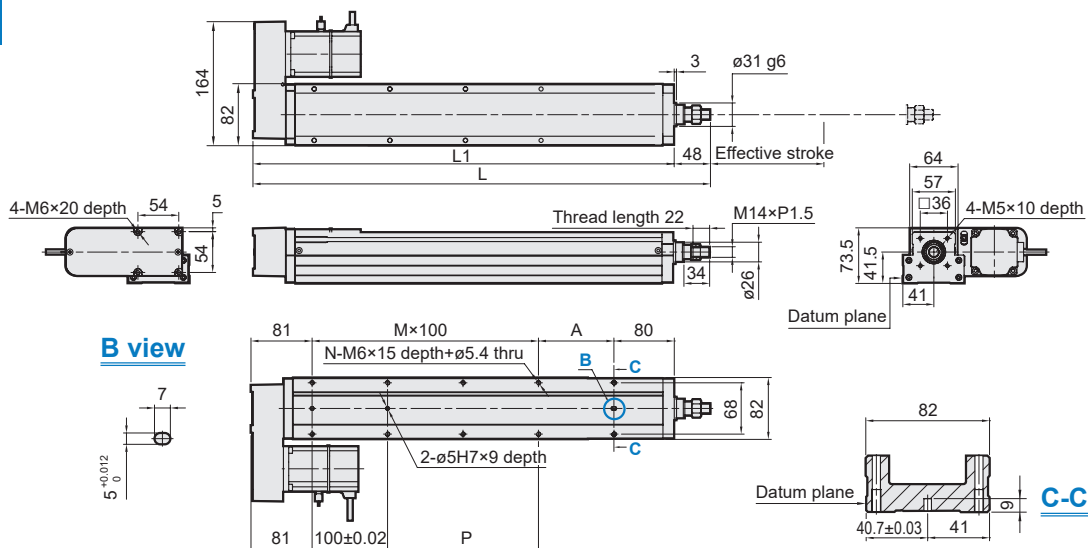


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	775	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.3	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14

BR

Motor on right side



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	359	409	459	509	559	609	659	709	775	809	859	909	959	1009	1059	1109
L1	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
KG	5.82	6.17	6.53	6.88	7.24	7.59	7.95	8.3	8.66	9.01	9.37	9.72	10.08	10.43	10.79	11.14