

MEQG-8 series

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



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	18
	Vertical	(kg)	15	8	3
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)	(θ)	±0°			

*1. Acceleration and deceleration values are set to 0.2 second.

*2. If the payload is near maximum, external guideway for radial load is required.

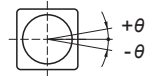
*3. () Value for 400W motor.

*4. Reduce the speed when the stroke exceeds 750 mm due to resonance.

*5. Please avoid applying axial torque on the anti-rotating guide.

*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

Lead	Size
L05	5 mm
L10	10 mm
L20	20 mm

Motor position

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

Flange (For motor installation)

Applicable motor brand (*)		Dimensions	
M	Mitsubishi	20 40	200W 400W servo
	Yaskawa		
	Delta		
P	Panasonic		

Home sensor

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

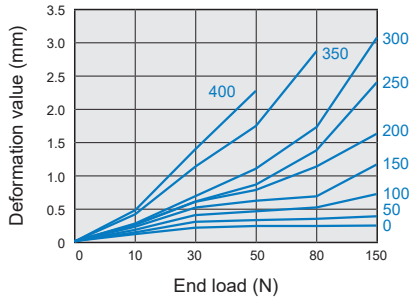
Limit sensor

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

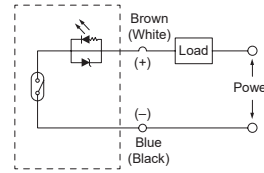
* Motor not included. Please refer to the "Motor Selection Table" on page 4-122 for details.

Shaft output deformation value

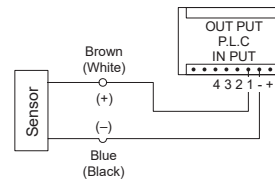
This form is only reference values.



Sensor layout



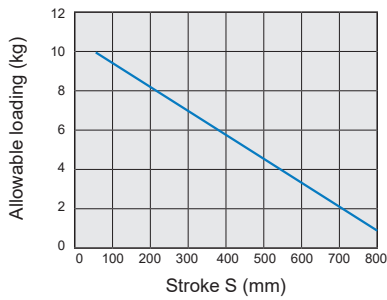
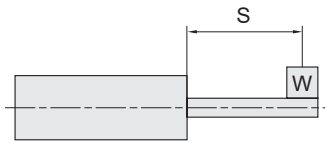
General load:
Such as relay or other resistive load.



Programmable controller connection diagram.

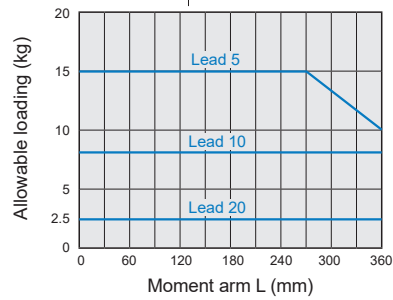
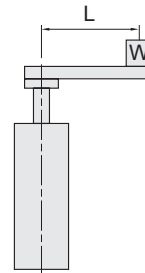
Allowable installation load

No external auxiliary mechanism, extension distance of load = 0



Load in vertical installation

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



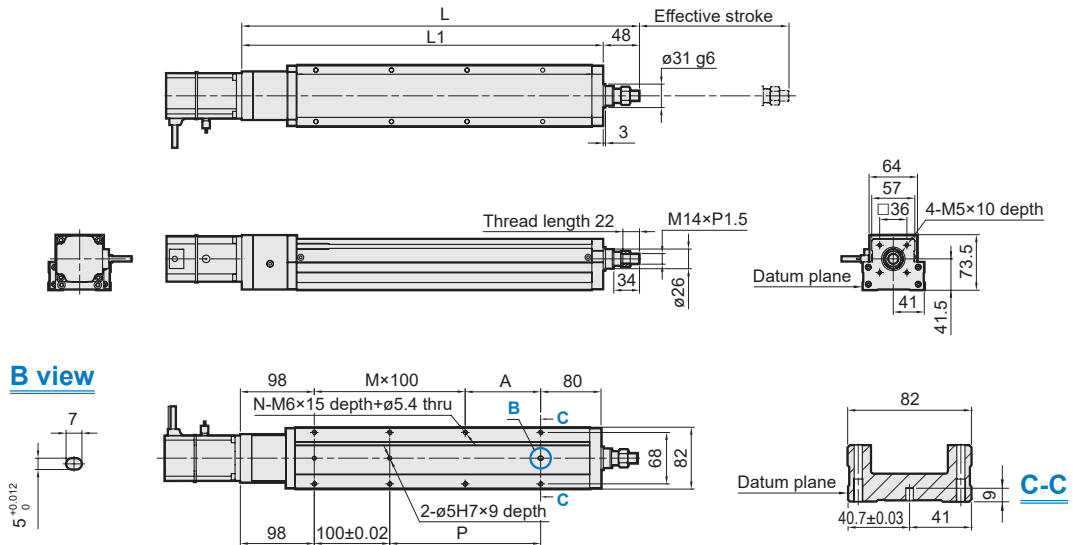
MEQG-8 Dimensions

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BC

Motor direct connection

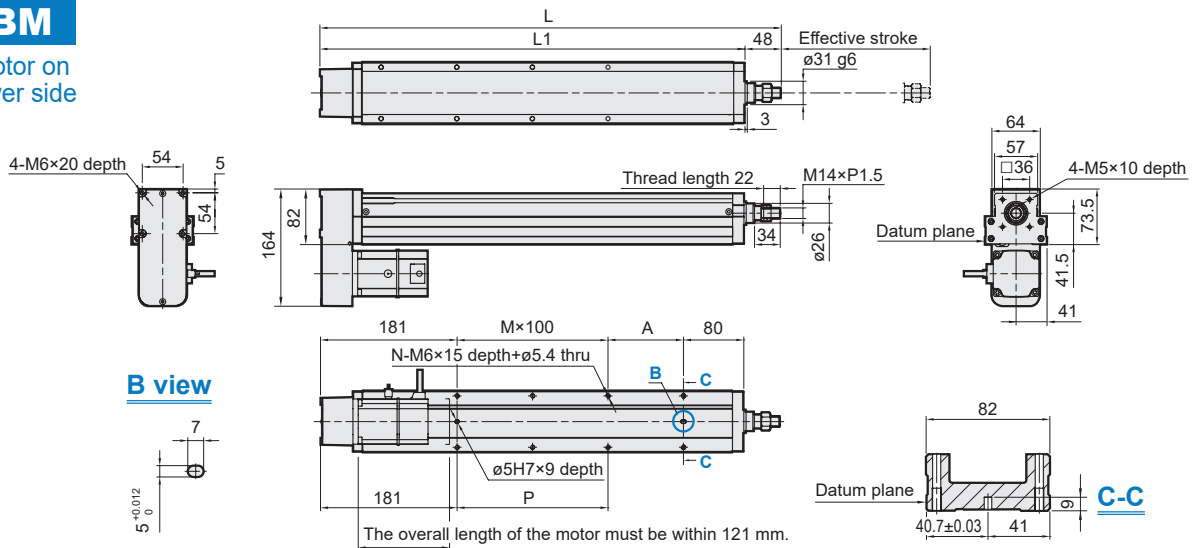


Unit: mm

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.

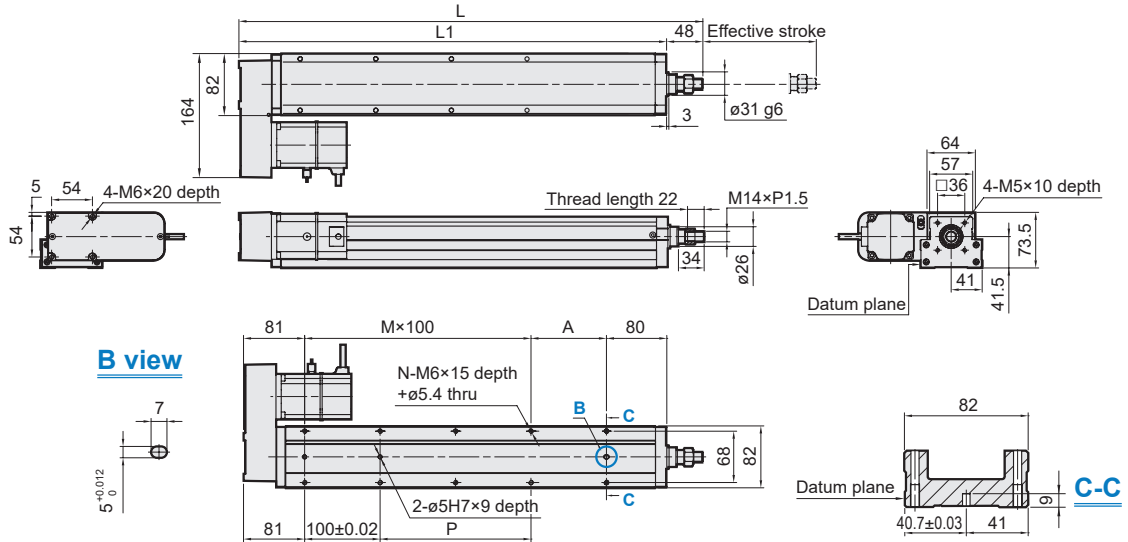
MEQG-8 Dimensions

ROD TYPE ELECTRIC CYLINDER (WITHOUT MOTOR)



BL

Motor on left side

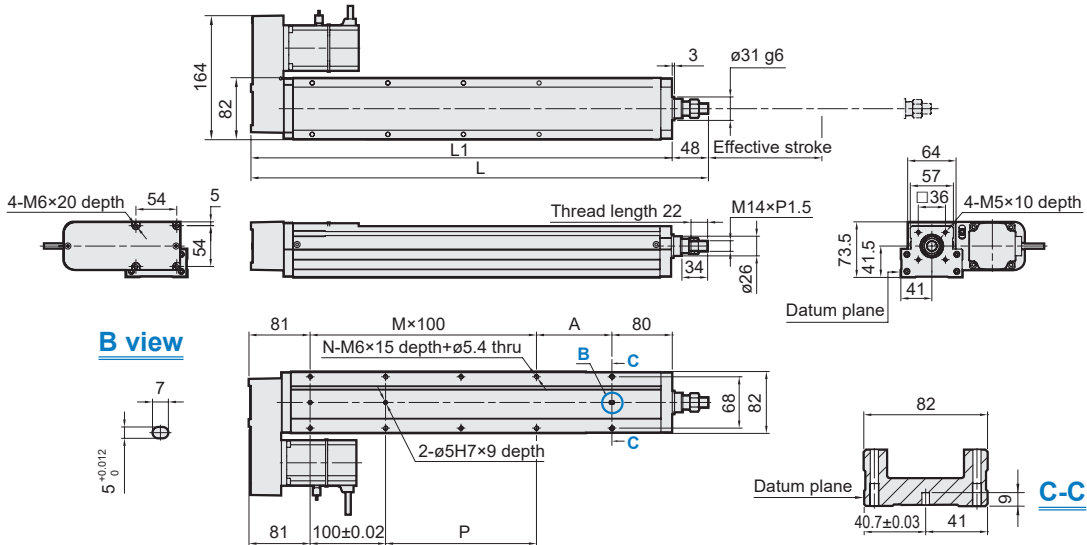


Unit: mm

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