

Dimensional Drawings

CAD drawings can be downloaded from the website. www.intelligentactuator.com

For Special Orders Appendix P.15

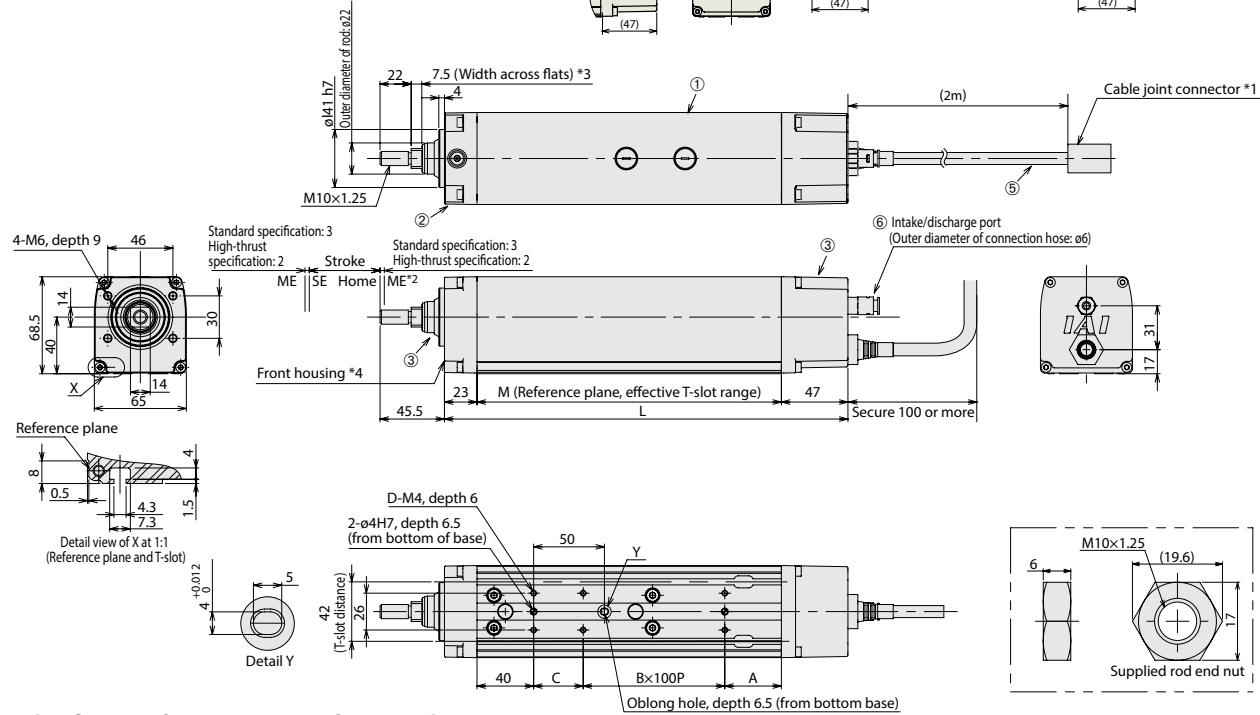
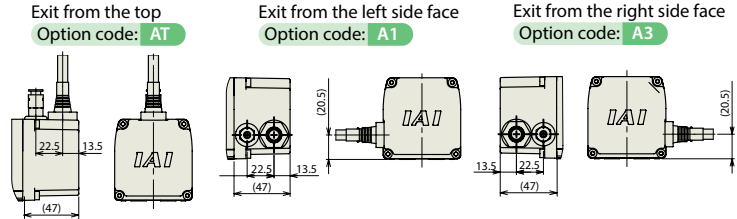


- *1 Connect the motor-encoder integrated cable here.
- *2 The rod moves to the ME during home return, so pay attention to possible contact with surrounding structures and objects.
- *3 The orientation of the bolt varies from one product to another.
- *4 When installing the actuator using the front housing or flange, make sure the actuator does not receive any external force.

Materials of Key Components

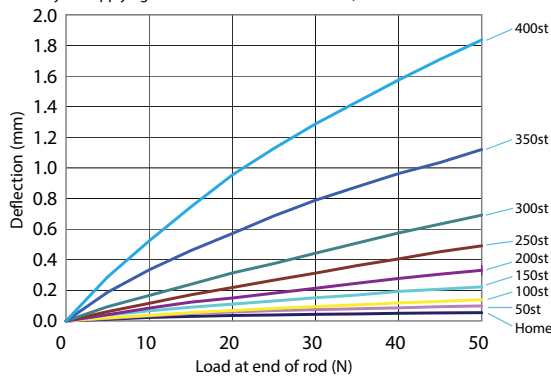
① Frame	Aluminum extrusion material (A6063SS-T5 or equivalent) with white alumite coating
② Front bracket	Aluminum die-cast
③ Rear cover	Aluminum die-cast
④ Rod	Stainless steel pipe (SUS304 or equivalent), polished + hard chrome plated
⑤ Actuator cable	Polyvinyl chloride (PVC)
⑥ Intake/exhaust port	Polyphenylene sulfide (PPS)

<Cable Exit Direction Option>



Rod Deflection of RCP4W-RA6C (Reference Values)

(The graph below plots deflection as measured by installing the actuator vertically and applying a force to the rod from one side.)



Dimensions and Weight by Stroke

		Stroke	50	100	150	200	250	300	350	400
L	Without brake	285	335	385	435	485	535	585	635	
	With brake (*)	346	396	446	496	546	596	646	696	
A	Without brake	40	40	40	40	40	40	40	40	40
	With brake (*)	101	101	101	101	101	101	101	101	101
B			1	1	2	2	3	3	4	4
C			35	85	35	85	35	85	35	85
D			6	6	8	8	10	10	12	12
M	Without brake	215	265	315	365	415	465	515	565	
	With brake	276	326	376	426	476	526	576	626	
Allowable static load at end of rod (N)			65.6	51.2	41.7	34.9	29.8	25.7	22.4	19.7
Allowable dynamic load at end of rod (N)			32.4	23.6	18.1	14.4	11.6	9.5	7.7	6.2
Allowable static torque at end of rod (N·m)			6.6	5.2	4.3	3.7	3.2	2.8	2.6	2.3
Allowable dynamic torque at end of rod (N·m)			2.6	2.0	1.6	1.3	1.0	0.9	0.7	0.6
Weight (kg)	Without brake		3.1	3.5	3.8	4.2	4.6	5.0	5.4	5.8
	With brake		3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4

(*) The dimensions of the high-thrust specification include the brake.

Applicable Controllers

RCP4W series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner type		PCON-CA-420I-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points	DC24V	Refer to P618	—	→ P607
Pulse-train type		PCON-CA-420I-PL-□-2-0	Equipped with a high-output driver Pulse-train input type	—				
Field network type		PCON-CA-420I-①-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points				

* ① indicates I/O type (NP/PN). * □ indicates N (NPN specification) or P (PNP specification) symbol * ①① indicates field network specification symbol. * ○ indicates P (Standard specification) or SP (High-thrust specification) symbol.

Slider Type

Mini

Standard

Controllers Integrated

Rod Type

Mini

Standard

Controllers Integrated

Table/Arm/Flat Type

Mini

Standard

Gripper/Rotary Type

Linear Servo Type

Clean-room Type

Splash-Proof Type

Pulse Motor

Servo Motor (24V)

Servo Motor (200V)

Linear Servo Motor