

Mach Motion Products

MNT-26N

Marine Duty Actuator



Specifications and Options

Voltage	No Load Current	Load Current	Max. Power	Stroke	Limit Switches	Noise Level	Protection Class	Backlash	Duty Cycle
12V	≤0.4A	≤1.3A	14.5W	20-200mm Customizable	Built In	62dB	IP67/IP69K	0.33	10%, 2 mins continuous use followed by 18 mins rest
24V	≤0.25A	≤0.7A							
Life Time	Working Temperature Range	Storage Temperature Range	Lead Screw Material	Push Rod Material	Push Nut Material	Color	Standard Cable Length	Certification	Options
≥10,000 cycles	-20°C ~ 60°C	-20°C ~ 60°C	#45 Steel	SUS316	Engineered Plastic	Stainless Steel	IP67/IP69K	CE, RoHS	Over current, Hall sensor feedback (Installation Length 190+S)

Stroke (mm)	50	100	150	200
Weight (kg)	0.3	0.35	0.4	0.45

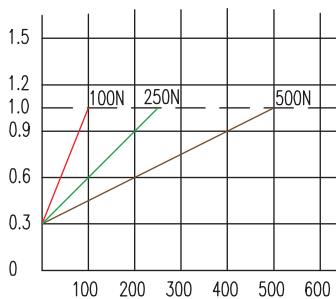
Technical Data

Push Force (N)	Pull Force (N)	Self-Locking Force (N)	Full Load Speed (mm/s)	No Load Speed (mm/s)
100	100	150	≥9.5	16
250	250	375	≥6	11
500	500	500	≥3.2	6

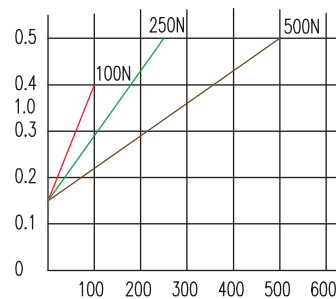
Curves

Accuracy of speed or current: 15%, in general, applications in the area marked with dashed lines are not recommended.

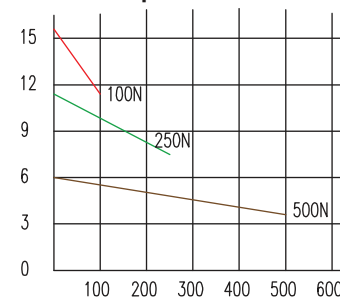
CURVE (Force / Current)
Current (A): 12VDC



CURVE (Force / Current)
Current (A): 24VDC



CURVE (Speed / Force)
Speed: mm/s



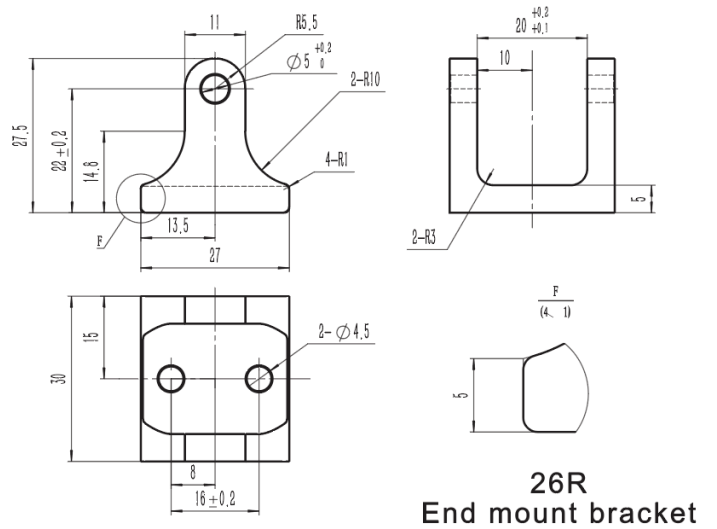
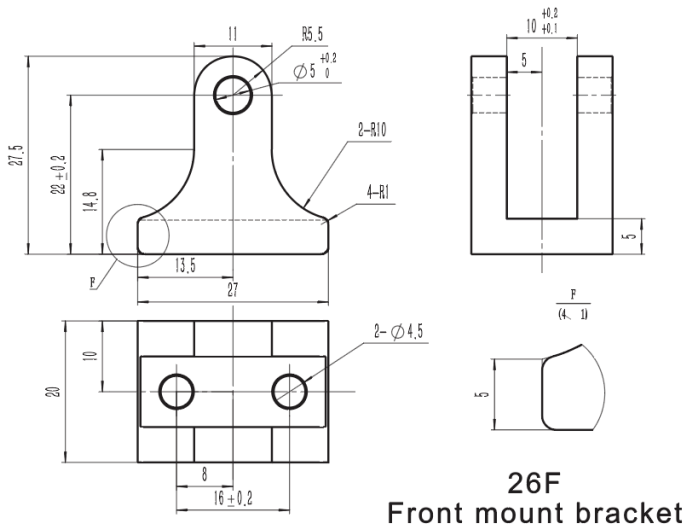
MNT-26N

Marine Duty Actuator



Mounting Bracket

Unit: mm



Controllers Available

Controllers to synchronize up to three actuators are available from Mach Motion Products.

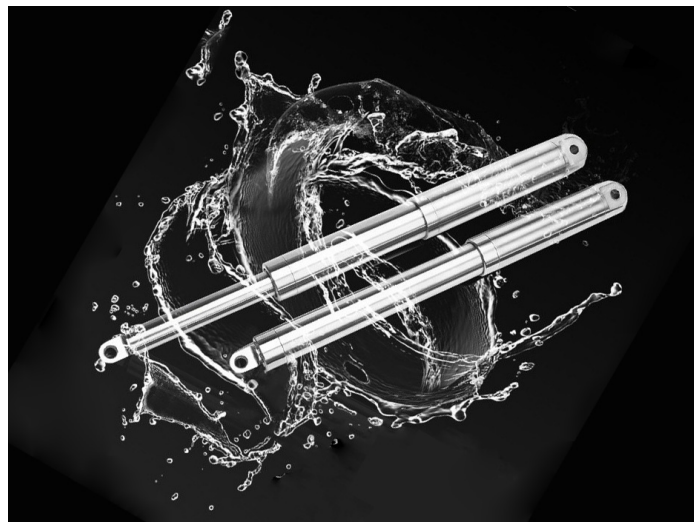
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Marine Duty Actuator

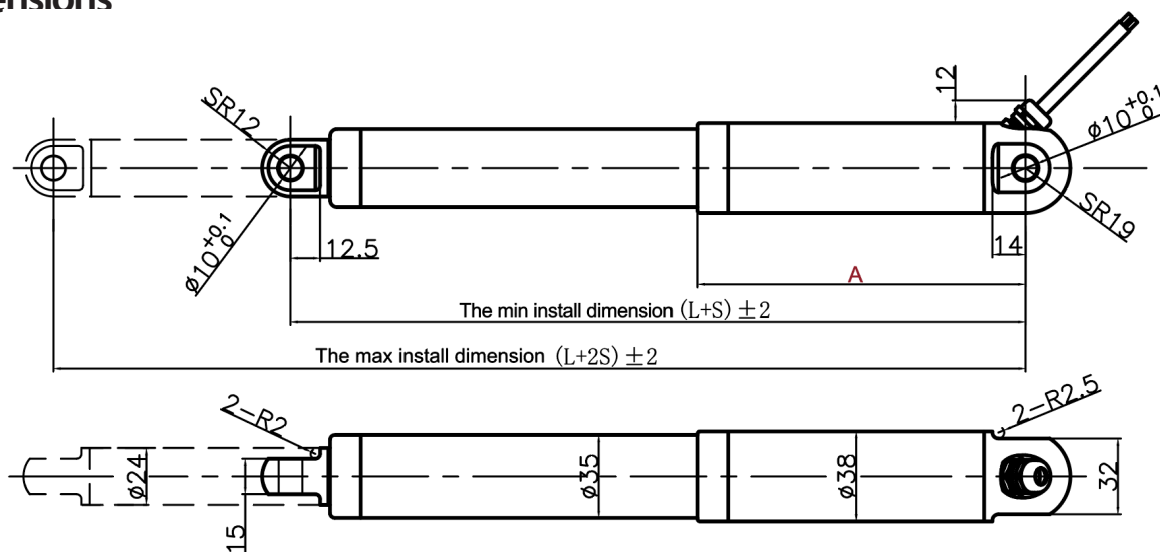


Features

1. 12 / 24 VDC
2. ø38mm Actuator Body
3. Max Load: 2,300N
4. Min. Installation Dimensions: $(L + S) \pm 2$
5. Features internal limit switches
6. Optional:
Current Overload Protection
Hall Sensor
7. Protection Class: IP67M



Dimensions



Unit: mm

Stroke (mm)	Length (Lmin)
20 ~ 500	$(L + S) \pm 2$

Specifications and Options

Min. Installation Dimension Stroke >400mm	(mm)	Standard		Hall Sensor		Over Current Protection	
		Normal / Waterproof	Low Noise (56dB)	Normal / Waterproof	Low Noise (56dB)	Normal / Waterproof	Low Noise (56dB)
≤800N	L + S	235 + S	245 + S	235 + S	245 + S	235 + S	245 + S
	A	148.5	158.5	148.5	158.5	148.5	158.5
>800N	L + S	245 + S	255 + S	245 + S	255 + S	245 + S	255 + S
	A	158.5	168.5	158.5	168.5	158.5	168.2

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Marine Duty Actuator



Specifications and Options

Voltage	No Load Current	Load Current	Max. Power	Noise Level (Full Load)	Protection Class	Backlash	Duty Cycle	Life Time
12V	≤0.7A	≤3.8A	50W	60dB	IP67M	0.5-1mm	10%, 2 mins continuous use followed by 18 mins rest	≥10,000 cycles
24V	≤0.35A	≤1.8A						
Outer Tube Material	Lead Screw Material	Push Rod Material	Push Nut Material	Certification	End Mounting	Wire Length	Working Temperature Range	Storage Temperature Range
316 Stainless Steel	Trapezoid, Steel	316 Stainless Steel	Engineered Plastic	CE	O Type	1.5m	-20°C ~ 60°C	-40°C ~ 70°C

Technical Data

Max. Load (N)	Self-Locking Force (N)	No Load Speed (mm/s) - Normal	Full Load Speed (mm/s) - Normal	No Load Speed (mm/s) - Low Noise (56dB)	Full Load Speed (mm/s) - Low Noise (56dB)
100	150	35	30	25	23
300	600	25	17	25	20
400	600	18	14	16.5	14
600	1,600	12	9	13	10.5
800	1,600	12	8	8.5	7
1,200	1,800	6.8	5	5	4.5
1,800	3,600	4.5	3	3.3	3
2,300	3,450	3.5	2.5	3.3	2.5

Stroke (mm)	50	100	150	200	350	300	350	400
Weight (kg)	0.85	0.95	1.05	1.15	1.25	1.35	1.45	1.65

Optional Features:

- Push Only functionality
- Output Limit Switches (wired)
- Customized Stroke lengths (20mm ~ 500mm, ±2mm precision)

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Marine Duty Actuator

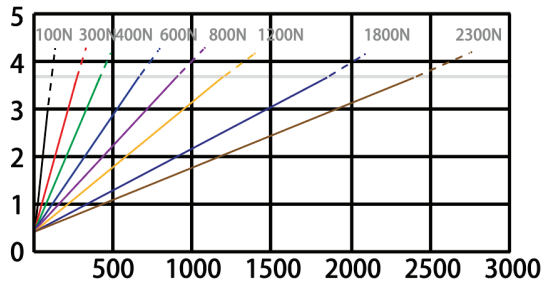


Curves

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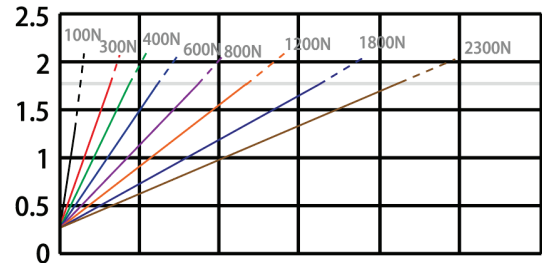
CURVE (Force / Current)

Current (A): 12VDC



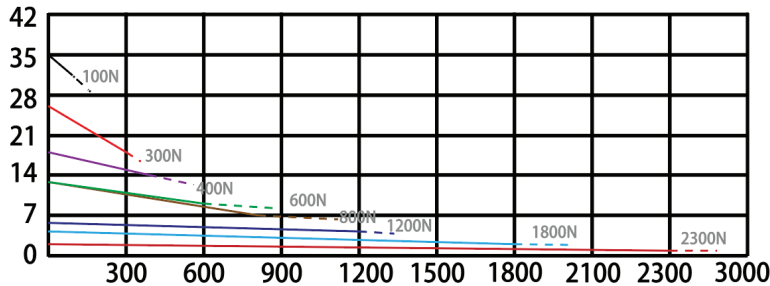
CURVE (Force / Current)

Current (A): 24VDC



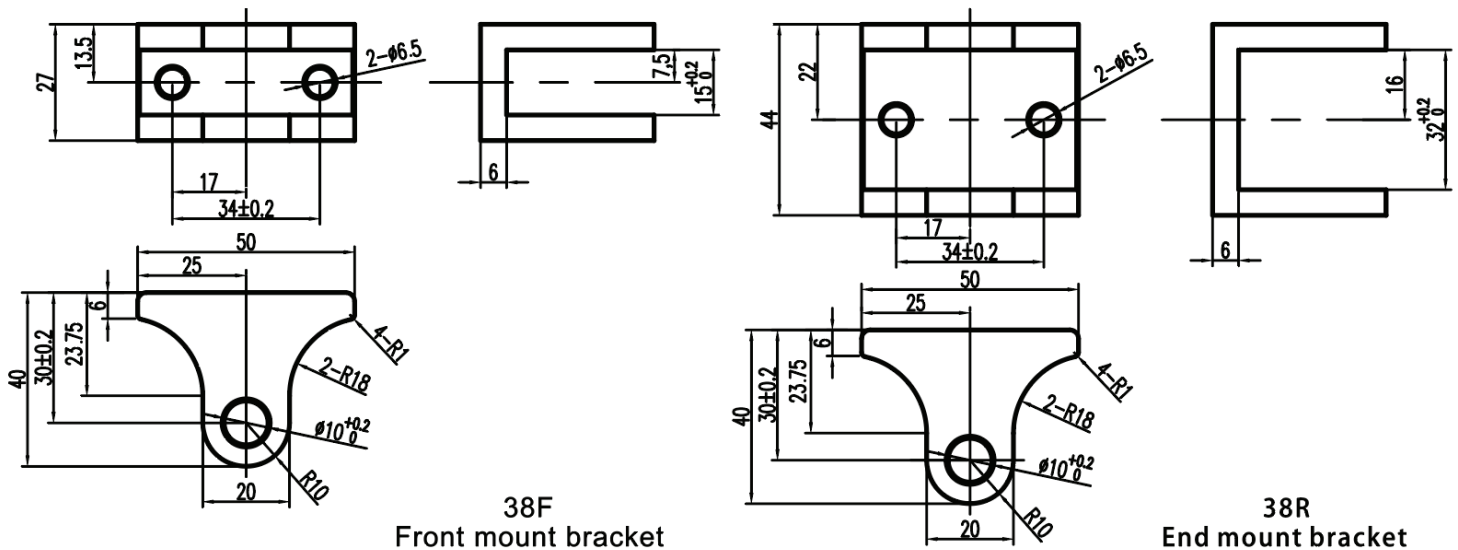
CURVE (Speed / Force)

Speed: mm/s



Mounting Bracket

Unit: mm



Controllers Available

Controllers to synchronize up to three actuators are available through Mach Motion Products.

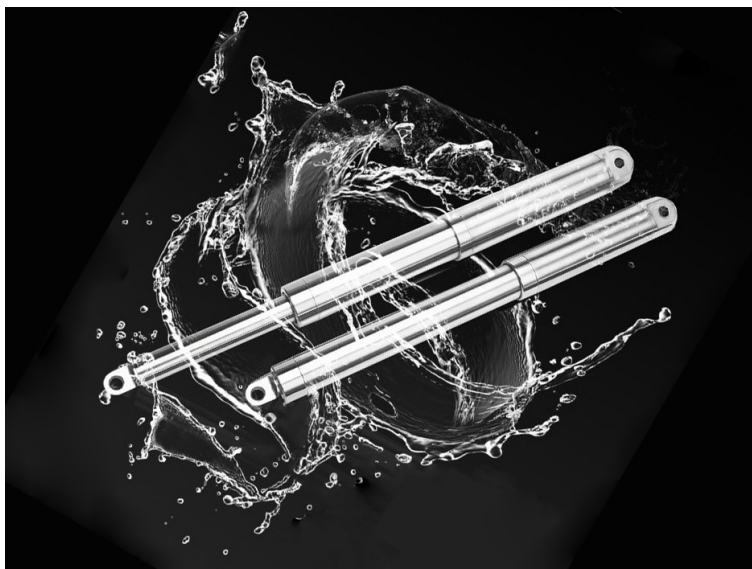
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Marine Duty Actuator

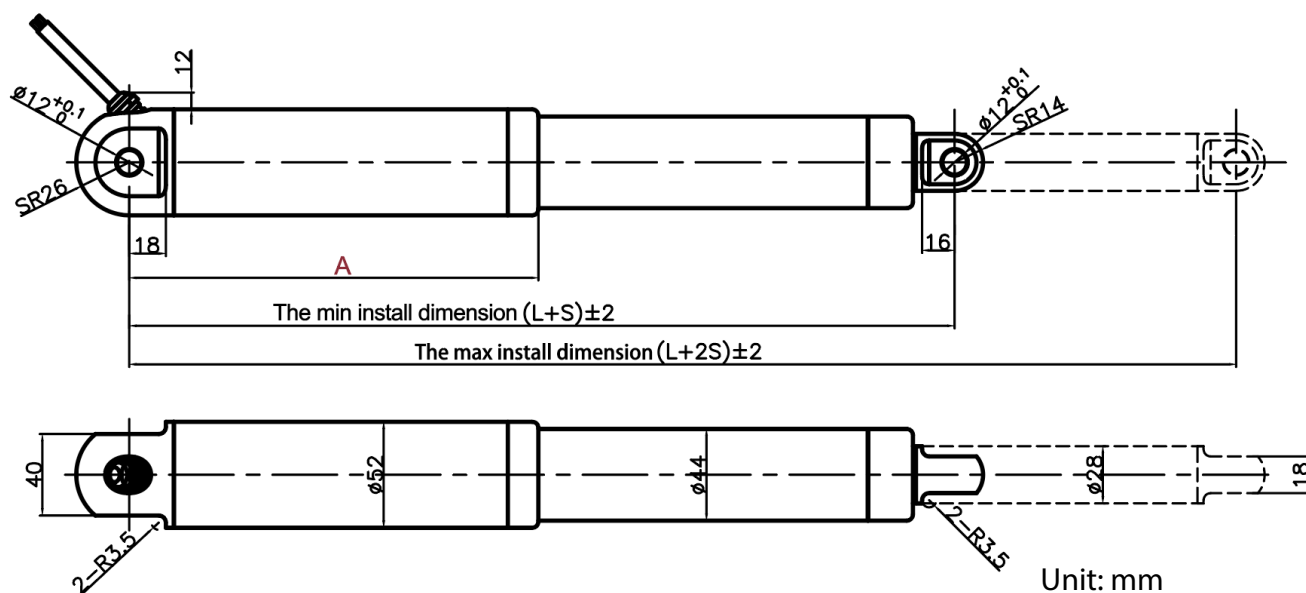


Features

1. 12 / 24 VDC
2. $\varnothing 52\text{mm}$ Actuator Body
3. Max Load: 6,000N
4. Min. Installation Dimensions: $(L + S) \pm 2$
5. Optional:
 - Current Overload Protection
 - Internal Limit Switches
 - Hall Sensor
6. Stainless Steel
7. Protection Class: IP67M



Dimensions



Specifications and Options

Stroke (mm)	Length (Lmin)
50~400	$(L + S) \pm 2$

Min. Installation Dimension	(mm)	Limit Switch	Hall Sensor	Over Current Protection
	$L + S$	$325 + S$	$345 + S$	$345 + S$
	A	221	241	241

MNT-52

Marine Duty Actuator



Specifications and Options

Voltage	No Load Current	Load Current	Max. Power	Noise Level (Full Load)	Protection Class	Backlash	Duty Cycle	Wire Connection
12V	≤1.6A	≤10A	20W	75dB	IP67M	0.5-1mm	10%, 2 mins continuous use followed by 18 mins rest. Lifetime: ≥10,000 cycles	Bare wire / 4-pin connector / 6-pin connector
24V	≤0.8A	≤5A						
Outer Tube Material	Lead Screw Material	Push Rod Material	Push Nut Material	Certification	End Mounting	Wire Length	Working Temperature Range	Storage Temperature Range
316 Stainless Steel	Trapezoid, Steel	316 Stainless Steel	Engineered Plastic	CE	O Type	1.5m	-20°C ~ 60°C	-40°C ~ 70°C

Stroke (mm)	50	100	150	200	350	300	350	400
Weight (kg)	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5

Technical Data

Max. Load (N)	Self-Locking Force (N)	No Load Speed (mm/s)	Full Load Speed (mm/s)
300	600	88	55
1,200	2,400	24	15
1,800	3,600	16	10
3,000	6,000	9.6	6
4,500	8,000	6.4	4.5
5,000	7,500	4.8	3.3
6,000	8,000	4.8	3

Note: Maximum load of 12V is 5,000N.

Optional Features:

- Push Only functionality
- Output Limit switches (wired)
- Customized Stroke lengths (20mm ~ 500mm, ±2mm precision)

MNT-52

Marine Duty Actuator

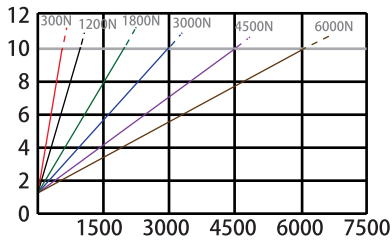


Curves

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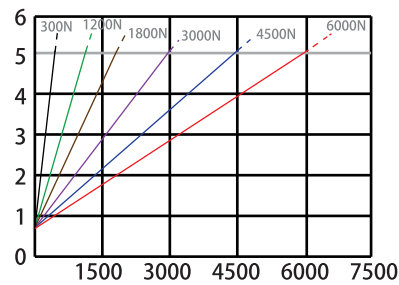
CURVE (Force / Current)

Current (A): 12VDC



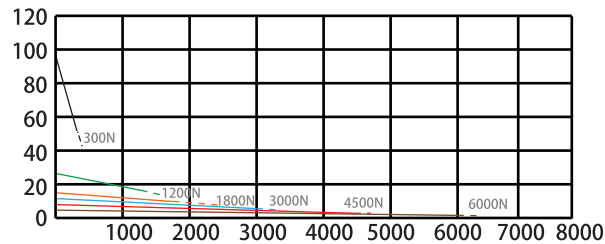
CURVE (Force / Current)

Current (A): 24VDC



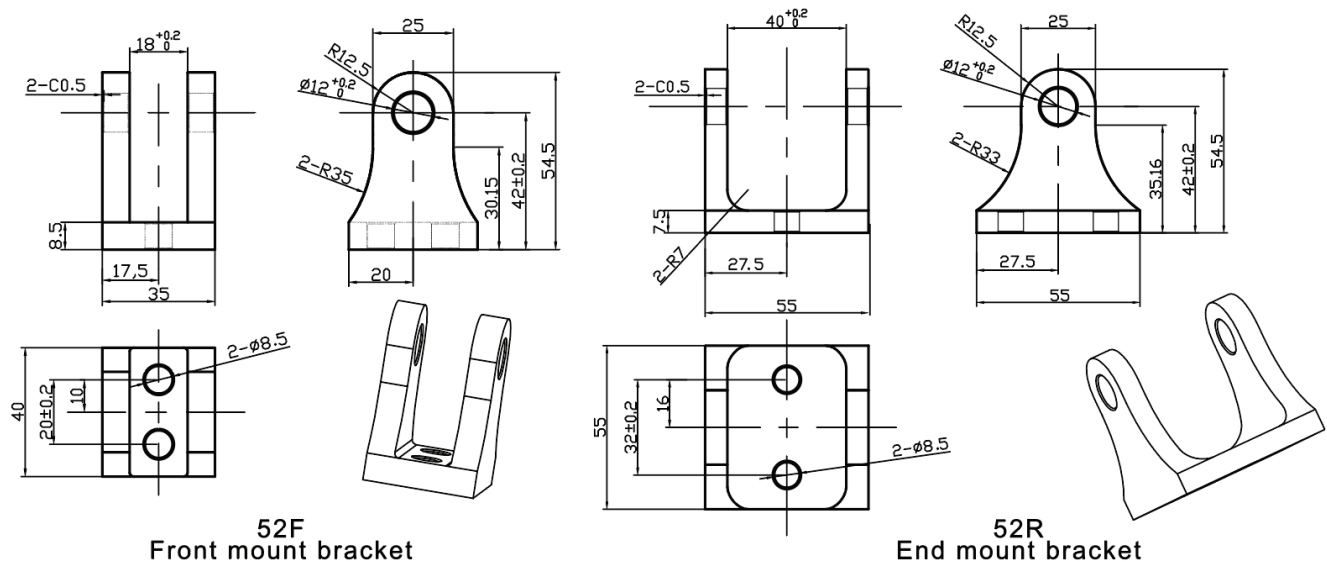
CURVE (Speed / Force)

Speed: mm/s



Mounting Bracket

Unit: mm



Controllers Available

One actuator output controller, two actuators output controller or three actuators output controller.