

Q&A

Question:

Are there any prevention measures for the Shaft free-fall?

V-Z- θ does not equipped with anti-free fall device.

If free falling is not allowed when use, external anti-free fall device should be set up.
Or choose the Belt Drive type and customize the Motor equipped with Magnetic brake,
the Actuator can hold the Shaft even when it powers off.

*Please note;

The Motor equipped with Magnetic brake can only be chosen with Belt Drive type Actuator.

Not available with either Direct-Drive type or Hybrid Drive type Actuator.

For your reference, below table shows the free fall load for each type of Actuator.

Drive Type	Motor size	Lead	Free falling load
Direct-Drive type	□28	6mm	7N
		10mm	2N
	□42	5mm	18N
		10mm	5N
Hybrid Drive type	—	—	3N
Belt Drive type	—	4mm	18N
	—	6mm	17N
	—	8mm	16N

*Caution;

Values are not guaranteed number.

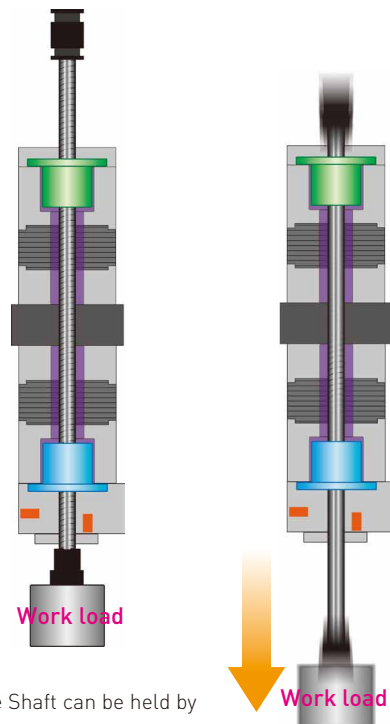
Please take them as reference value.

Thread Shaft will free fall at power off...

【Example of free falling】

Power ON

Power OFF



The Shaft can be held by its retention force of the Motor.

The Shaft will free fall once the Actuator turned off, by the loss of retention force from the Motor.