

Actuator MK45

MK45 is a compact in-line actuator, which is designed for light load capacity with low current consumption. The concise appearance is suitable for limited installation space such as window opener and other applications in light industry. It also provides solutions for relatively quiet applications that do not





Features and Options

Main application: Industrial

Standard features:

• Input voltage: 24V DC

• Max. Load: 1000N (Push/Pull)

• Max. Static load: 2500N

• Typical speed at no load: 5.0mm/sec

• Typical speed at full load: 3.5mm/sec (1000N Load)

• Stroke: 50 / 100 / 150 / 200 / 250 / 300mm

Noise level: ≤55dB

• IP Level: IP65

• Preset powerswitches for stroke end limits

• Material: Aluminum tube and case

• Duty cycle: 10%, max. 2 min. continuous operation in 20 min.

Ambient operation temperature: -20°C∼+70°C

• Certified: CE Marking, EMC Directive 2014/30/EU

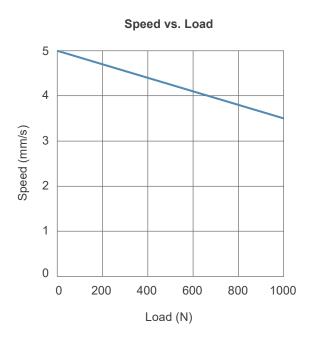
Options:

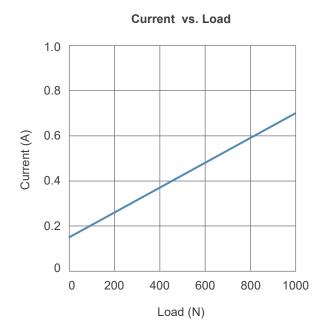
Mounting bracket MB22 (ø8mm)

1

Performance Data

Model No.	Gear ratio	Push / Pull			Typical current (A) @ 24VDC	
		load Max. (N)	No load	Full load	No load	Full load
MK45	57:1	1000	5.0	3.5	0.15	0.7





Remarks:

* The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

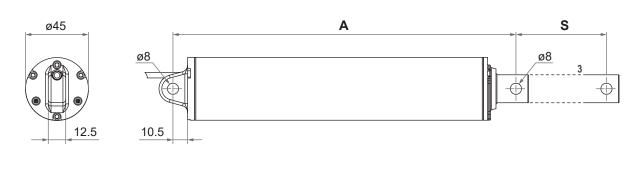
Dimensions

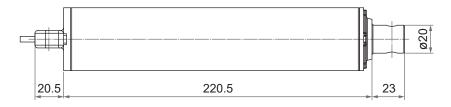
- Stroke (S): 50~300mm
 Installstion dimension: Minimum retracted length(A) of various options;
 Extended length = Retracted length(A) + Stroke(S)

	Front			Strol	Stroke (S)				
Minimum	connector code	50	100	150	200	250	300		
retracted	1	245	295	345	395	445	495		
length (A)	3	286	336	386	436	486	536		
	6	255.5	305.5	355.5	405.5	455.5	505.5		

(Tolerance: ±3mm)

Drawing Unit: mm





• Front connector

1: Drilled hole



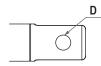


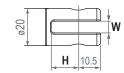
3: Spherical rod eye







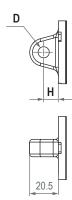




Front connector code	Diameter of pivot without bushing (D)	Slot width (W)	Depth (H)
1	ø6.4, ø8, ø10	N/A	N/A
3	ø8	N/A	N/A
6	ø8, ø10	6	15

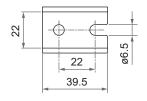
• Rear connector

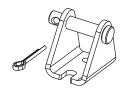
1: Metal

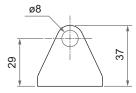


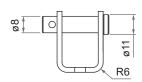
Rear connector code	Diameter of pivot without bushing (D)	Slot width (W)	Depth (H)
1	ø8	N/A	10.5

• Mounting bracket (MB22)







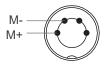


Compatibility

Product	Model	MK45 spec	
Control box	T-control, CS1, CS2, CBT2, CB3T, CB4M	Moteck F-type DIN plug	
Control box	CF16	Bare wires	

Power Cable

• Moteck F-type DIN Plug

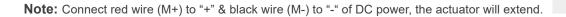


4-pin DIN Plug

Note: Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.

• Bare wires

Wire color	Definition
Red	M+
Black	M-





Certifications

The MK45 actuator is compliant with the following regulations, in terms of the essential conformity requirements of EMC Directive of 2014/30/EU.

Emission	Immunity
EN 61000-6-3:2007+A1:2011+AC:2012	EN 61000-6-1:2007 IEC 61000-4-2:2008
	IEC 61000-4-3:2006+A1:2007+A2:2010
	IEC 61000-4-8:2009

Ordering Key

