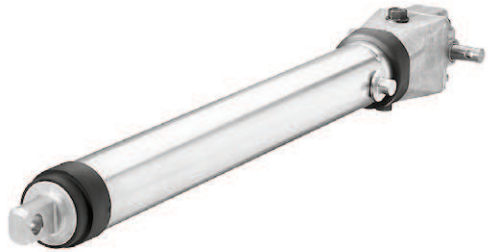


# Electrak® Non-driven Actuator PPA-M

» Ordering Key - see page 84  
» Glossary - see page 85

Load up to 6670 N



## Standard Features and Benefits

- Actuator with double input shafts to which a customer supplied motor or/and an intermediate shaft can be mounted
- Can be operated manually
- Robust and versatile
- Withstands very harsh environments
- Highly efficient ball screw drive system
- Holding brake prevents back driving
- Trunnion to clevis mounting
- Maintenance free

## Performance Specifications

Parameter		PPA-M
Maximum load, dynamic / static	[N]	6670 / 13350
Maximum speed at max. load	[mm/s]	8
Maximum input torque	[Nm]	9
Maximum input speed	[rpm]	100
Standard stroke lengths	[in]	4, 8, 12, 18, 24, 36
Operating temperature limits	[°C]	-25 – +65
End play, maximum	[mm]	1,0
Restraining torque	[Nm]	23

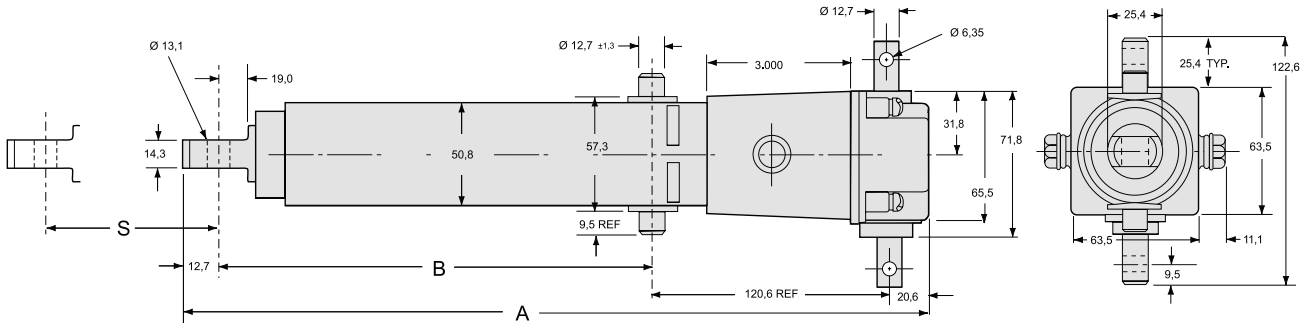
## General Specifications

Parameter	Electrak PPA-M
Screw type	ball
Internally restrained	no
Manual override	no*
Holding brake	yes
End of stroke protection	no
Mid stroke protection	no
Certificates	–
Options	protective bellows

\* Either of the two input shafts can be used for manual operation if both shafts are not connected to a motor or an intermediate shaft.

# Electrak® Non-driven Actuator PPA-M

Load up to 6670 N

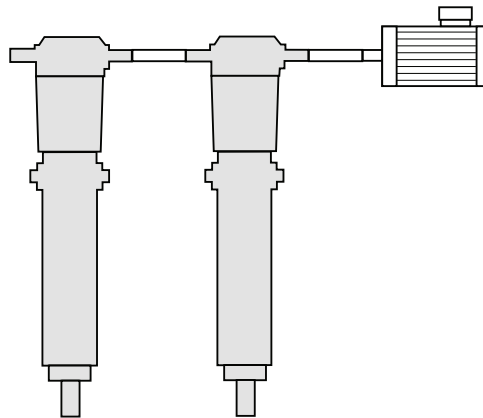


S: stroke  
 A: retracted length  
 B: retracted length to trunnions

<b>Stroke (S)</b>	[mm]	101,6	203,2	304,8	457,2	609,6	914,4
<b>Retracted length (A)</b>	[mm]	375,9	477,5	579,1	782,3	934,7	1239,5
<b>Retracted length to trunnions (B)</b>	[mm]	223,5	325,1	426,7	629,9	782,3	1087,1
<b>Weight</b>	[kg]	3,4	4,2	4,8	6,1	7,3	9,7

## Synchronous Operation

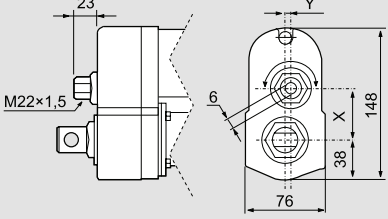
Two or more PPA-M actuators can easily be mechanically linked for synchronous operation by using intermediate shafts. The intermediate shafts and necessary couplings are provided by the customer.



# Ordering Keys

## Non-driven Actuators

Electrak PPA-M			
1	2	3	4
PPA00 -	01B65 -	24	N-XXX
<b>1. Model</b> PPA00 - = Electrak PPA-M	<b>2. Dynamic load capacity</b> 01B65 - = 6670 N	<b>3. Stroke</b> 04 = 4 inch (101,6 mm) 06 = 6 inch (152,4 mm) 08 = 8 inch (203,2 mm) 12 = 12 inch (304,8 mm) 18 = 18 inch (457,2 mm) 24 = 24 inch (609,6 mm) 36 = 36 inch (914,4 mm)	<b>4. Bellows option</b> N-XXX = no bellows N-XXC = bellows

FA14																
1	2	3	4	5												
FA14 -	10A65M	35	M2	N												
<b>1. Model</b> FA14 - = Electrak FA14	<b>2. Dynamic / static load capacity and screw type</b> 05A65M = 1100 / 11350 N, acme 10A65M = 2250 / 11350 N, acme 20A65M = 2250 / 11350 N, acme 05B65M = 2250 / 18000 N, ball 10B65M = 4500 / 18000 N, ball 20B65M = 4500 / 18000 N, ball 21B65M = 6800 / 18000 N, ball	<b>3. Stroke</b> 05 = 50 mm 10 = 100 mm 15 = 150 mm 20 = 200 mm 25 = 250 mm 30 = 300 mm 35 = 350 mm 40 = 400 mm 45 = 450 mm 50 = 500 mm 55 = 550 mm 60 = 600 mm	<b>4. Rear / front adapter hole position<sup>1</sup></b> M0 = both adaptors at 0° (standard) M1 = rear adaptor at 30°, front at 0° M2 = rear adaptor at 60°, front at 0° M3 = rear adaptor at 90°, front at 0° M4 = rear adaptor at 120°, front at 0° M5 = rear adaptor at 150°, front at 0° MF = rear and front adaptor at 90°  <b>5. Options</b> N = no option HW = manual override <sup>2</sup>	<b>2 Dimensions for manual override option.</b>  <table border="1"> <thead> <tr> <th>Model</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>05A(B)65M</td> <td>49,6</td> <td>0,0</td> </tr> <tr> <td>10A(B)65M</td> <td>43,3</td> <td>5,2</td> </tr> <tr> <td>20(21)A(B)65M</td> <td>38,9</td> <td>0,0</td> </tr> </tbody> </table>	Model	X	Y	05A(B)65M	49,6	0,0	10A(B)65M	43,3	5,2	20(21)A(B)65M	38,9	0,0
Model	X	Y														
05A(B)65M	49,6	0,0														
10A(B)65M	43,3	5,2														
20(21)A(B)65M	38,9	0,0														

Flanges for FA14			
Description	Part Number	Description	Part Number
Nema 23	D390887	IL348	D389819
Nema 34	D389984	Akm3x-AN	D390930
IEC 63 B14	D390820	Akm4x-AN	D389939
Servo 80, S80	D390822		