

Linear actuator

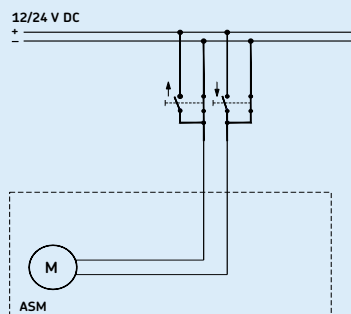
Magforce ASM

Benefits

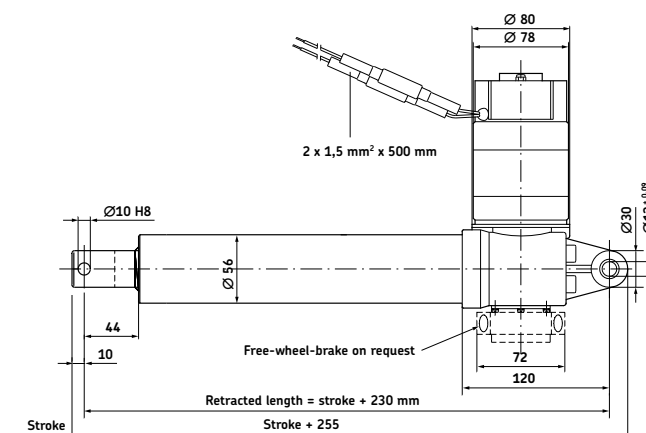
- Modular
- Robust
- Reliable
- High speed and/or high load
- All metal design



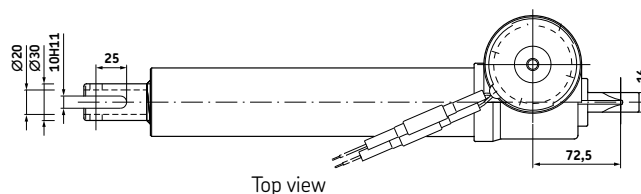
Connecting diagram



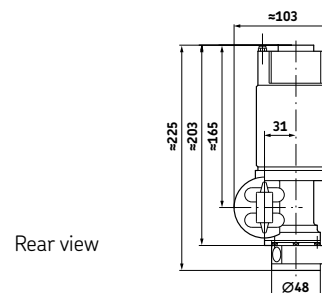
Dimensional drawing



Side view



Top view



Rear view

Legend:
 S = stroke
 L = retracted length

Technical data

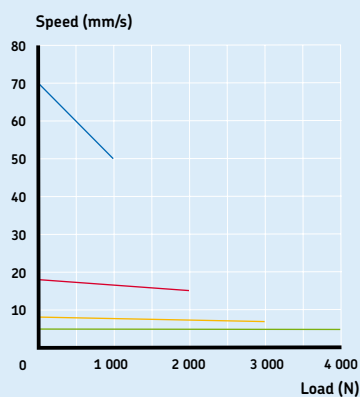
	Unit	ASM 1010	ASM 2030	ASM 3030	ASM 4050
Push load	N	1 000	2 000 ¹⁾	3 000 ²⁾	4 000 ³⁾
Pull load	N	1 000	2 000	3 000	4 000
Speed (at full load)	12 V DC mm/s	50	17	8	5
	24 V DC mm/s	45	18	8	5
Stroke	mm	100 to 700	100 to 700	100 to 700	100 to 700
Retracted length	mm	S+230	S+230	S+230	S+230
Voltage	V DC	12 or 24	12 or 24	12 or 24	12 or 24
Power consumption	12 V DC W	192	168	168	168
	24 V DC W	192	144	168	168
Current consumption	12 V DC A	16	14	14	14
	24 V DC A	8	6	7	7
Duty cycle	%	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	-10 to +40	-10 to +40	-10 to +40	-10 to +40
Type of protection	IP	44	44	44	44
Weight	kg	5	5	5	5
Color	—	Silver	Silver	Silver	Silver

¹⁾Push load allowed up to 600 mm stroke (if S>600 mm, only pull load is allowed)

²⁾Push load allowed up to 450 mm stroke (if S>450 mm, only pull load is allowed)

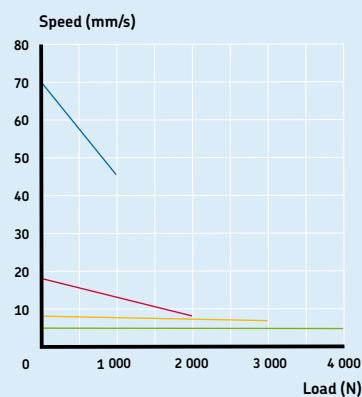
³⁾Push load allowed up to 400 mm stroke (if S>400 mm, only pull load is allowed)

Performance diagrams



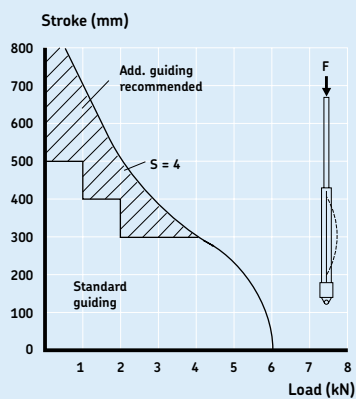
Speed-load diagram at 12 V DC

— ASM 1010
 — ASM 2030
 — ASM 3030
 — ASM 4050



Speed-load diagram at 24 V DC

Safety factor load conditions



Bending of spindle
 S = safety factor Euler 3

Ordering key

Type	Load:	Stroke (S):	Option 1:	Option 2:	Option 3:
	1 000 N 2 000 N 3 000 N 4 000 N	100 mm 200 mm 300 mm 400 mm 500 mm 600 mm 700 mm	12 V DC 24 V DC <i>Others*</i>	No option Free wheel brake on push load, 1028,6226 Free wheel brake on pull load, 1028, 0002 Friction brake for pull/push load, 1028, 7851	No option Limit switch
	1010 2030 3030 4050	100 200 300 400 500 600 700	01 02 XX	0 A B C	0 1

Options shown in italics are only available on request.

Minimum quantities or additional costs apply for option 1 if shown in italics. For option 2 and 3 please contact your SKF representative.

Example for ordering an actuator without any options: ASM1010-100-01.

Example for ordering an actuator with option limit switch: ASM1010-100-01-01 (01 = with limit switch).

* Example for others XX: Add. guiding bush - $L=S+280$ mm, protection tube made out of stainless steel, bronze nut, low temp grease -30°, extended motorshaft, rear attachment hole turned 90°, without rear attachment; motor turned 90°.

Spare parts

	Designation	Order N°
Limit switch 100 mm stroke	ZAC-1043,0210-0100	M/0126970
Limit switch 200 mm stroke	ZAC-1043,0210-0200	M/0126971
Limit switch 300 mm stroke	ZAC-1043,0210-0300	M/0126972
Limit switch 400 mm stroke	ZAC-1043,0210-0400	M/0126973
Limit switch 500 mm stroke	ZAC-1043,0210-0500	M/0126974
Limit switch 600 mm stroke	ZAC-1043,0210-0600	M/0126975

® SKF is a registered trademark of the SKF Group

© SKF Group 2012

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB L5321,2130 EN · April 2012

