

Linear Units for Ontrac On-Off - and Modulating Control Actuators

Switch-Off Force 4,6 ... 64 kN
max. Force for Modulating
Control 11,5 ... 32 kN



■ Main Components

- Robust, entirely encapsulated unit
- Input flange acc. to ISO 5210 or DIN 3210
- Fastening via flange acc. to DIN 3358; optionally foot mounted

■ Technical Features

- Protection class IP 67
- Suitable for adaptation to Ontrac Multi-turn actuators type
MOE 700 for on-off operation
MME 800 for modulating control
Spur gears
Bevel gears

Application

Linear units L 25.1 ... L 70.1 are used with multi turn actuators Ontrac MOE ... or Ontrac MME ... for control elements, which require a linear movement.

These units convert the actuators input torque into a axial force.

Ontrac®

Linear Units for Ontrac MOE ... / MME ...

Technical Data

Selection data for ON-OFF Actuators

max. switch-off force [kN] ¹⁾	switch-off force range at linear unit [kN]	Adjustable speed range [mm/s] ²⁾	max. stroke [mm]	Valve flange DIN 3358	Linear unit	Actuator	Actuator speed range
11.5	4.6 ... 11.5	3.0 ... 15.0	50	F07 / F10	LE 12.1	MOE 708	S
	7.7 ... 11.5	1.5 ... 7.7	100				R
	9.0 ... 11.5	0.6 ... 2.9	200				M
23	4.6 ... 11.5	3.0 ... 15.0	400	F07 / F10	LE 25.1	MOE 708	M
	7.7 ... 19.2	1.5 ... 7.7	500				S
	9.0 ... 23.0	0.6 ... 2.9	100				R
37.5	10.0 ... 25.0	3.6 ... 18	63	F10	LE 50.1	MOE 712	S
	12.5 ... 31.3	1.8 ... 9.2	125				R
	15.0 ... 37.5	0.7 ... 3.5	250				M
64	12.8 ... 32.0	4.2 ... 21	80	F14	LE 70.1	MOE 725	S
	20.5 ... 51.3	2.1 ... 10.7	160				R
	25.6 ... 64.1	0.8 ... 4.1	320				M
			400				

¹⁾ ± 20% changes possible due to changes in mechanical efficiency; torque can be set in 10% steps at actuator ²⁾ Adjustable at actuator in 5% steps

Selection data for modulating actuators

max. force ³⁾ (mod. mode) [kN]	Switch-off force range [kN] ¹⁾	Adjustable speed range [mm/s] min. / max. ²⁾	max. stroke [mm]	Valve flange DIN 3358	Linear unit	Actuator	Actuator speed range
11,5	9.0 ... 11.5	0.6 ... 2.9	50 100 200 400 500	F07 / F10	LE 12.1	MME 808	M
11.5	9.0 ... 23.0	0.6 ... 2.9	50 100 200 400 500	F07 / F10	LE 25.1	MME 808	M
20.0	15.0 ... 37.5	0.7 ... 3.5	63 125 250 400	F10	LE 50.1	MME 812	M
30.0	25.6 ... 64.1	0.8 ... 4.1	80 160 320 400	F14	LE 70.1	MME 825	M

¹⁾ ± 20% changes possible due to changes in mechanical efficiency; torque can be set in 10% steps at actuator;

²⁾ Adjustable at actuator in 5% steps

³⁾ Force in mod. mode approx 50% of max. switch-off force.

Linear Units for Ontrac MOE ... / MME ...

Technical Data

General Technical Data

	LE 12.1	LE 25.1	LE 50.1	LE 70.1
spindle thread	26 x 5 LH	26 x 5 LH	32 x 6 LH	40 x 7 LH
conversion factor torque / force	2.6	2.6	3.2	3.9
thread at thrust rod	M 12 x 1.25	M 16 x 1.5	M 20 x 1.5	M 36 x 3
weight [kg]	50 mm stroke: 8 kg 100 mm stroke: 9 kg 200 mm stroke: 10 kg 400 mm stroke: 13 kg 500 mm stroke: 14 kg	50 mm stroke: 8 kg 100 mm stroke: 9 kg 200 mm stroke: 10 kg 400 mm stroke: 13 kg 500 mm stroke: 14 kg	63 mm stroke: 10 kg 125 mm stroke: 12 kg 250 mm stroke: 15 kg 400 mm stroke: 18 kg	80 mm stroke: 23 kg 160 mm stroke: 26 kg 320 mm stroke: 32 kg 400 mm stroke: 35 kg
flange (to actuator) acc. ISO 5210	F10	F10	F10	F14
required mech. interface at actuator (ISO 5210)	B1	B1	B1	B1
protection class	IP 67			
temperature range	-25°C ... +80°C (consider actuator temperature range)			
corrosion protection	surface chromatically protected (yellow)			

Linear Unit for Ontrac MOE ... / MME ...

Order Information

Linear Unit						7	8	9	10	11	12	13	14	Code			
output flange		order no.															
LE 12.1	F07 / F10	DIN 3358															
LE 25.1	F07 / F10	DIN 3358															
LE 50.1	F10	DIN 3358															
LE 70.1	F14	DIN 3358															
max. stroke [mm]																	
		LE 12.1	LE 25.1	LE 50.1	LE 70.1												
50	x	x	-	-		A											
63	-	-	x	-		B											
80	-	-	-	x		C											
100	x	x	-	-		D											
125	-	-	x	-		E											
160	-	-	-	x		F											
200	x	x	-	-		G											
250	-	-	x	-		H											
320	-	-	-	x		J											
400	x	x	-	-		K											
400	-	-	x	-		K											
400	-	-	-	x		K											
500	x	x	-	-		L											
Valve flange acc. to DIN 3338																	
LE 12.1	F07					1											
	F10					2											
LE 25.1	F07					1											
	F10					2											
LE 50.1	F10					2											
LE 70.1	F14					3											
Direction of motion																	
moving out of thrust rod with clockwise working actuator						1											
moving out of thrust rod with counter clockwise working actuator						2											
for counter clockwise moving actuator with LE 12.1 / LE 25.1																	
for clockwise moving actuator with LE 50.1																	
for counterclockwise moving actuator with LE 70.1																	
Fastening																	
with flange							A										
with foot and cog							B										
for LE 12.1, 25.1, 50.1 with footing and pivot																	
for LE 70.1 with footing and pivot																	
Further features																	

Example for order no.: 78821 / D / 1 / 1 / A / 486:

LE 25.1

max. stroke: 100 mm

Valve flange F07

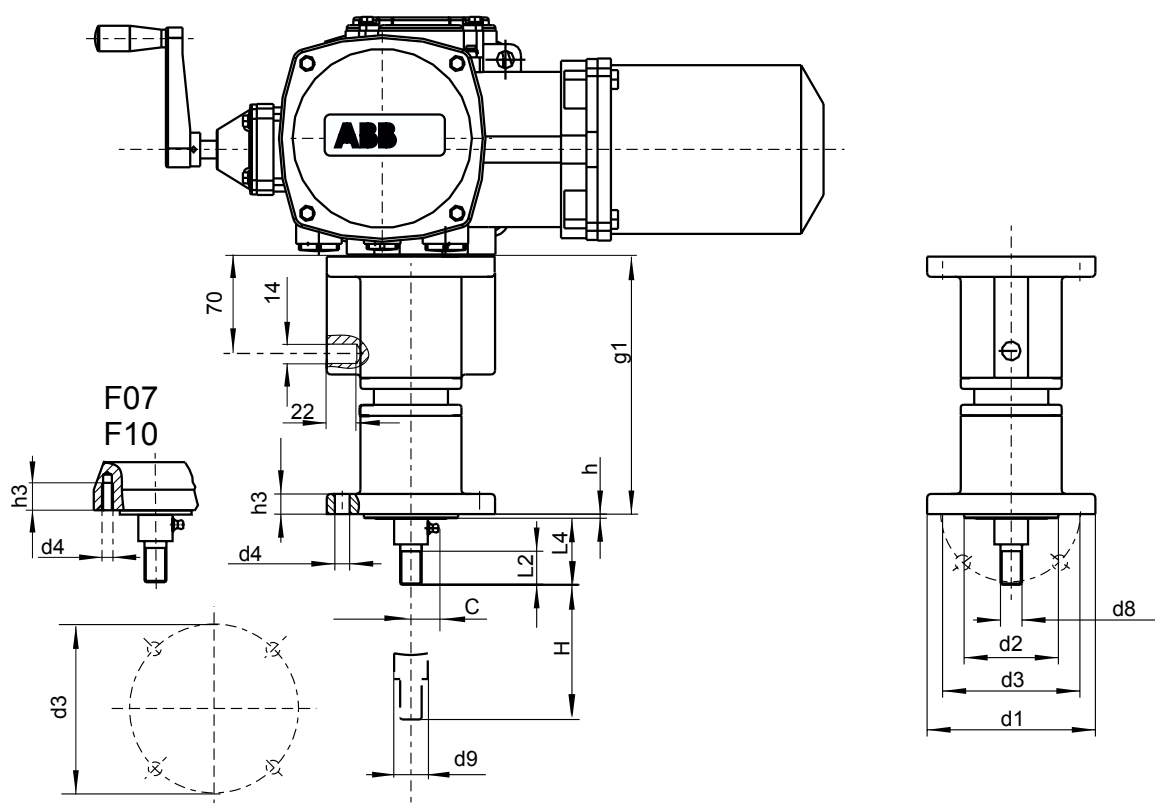
moving out of thrust rod with clockwise working actuator

with flange

assembled with actuator

Dimensions

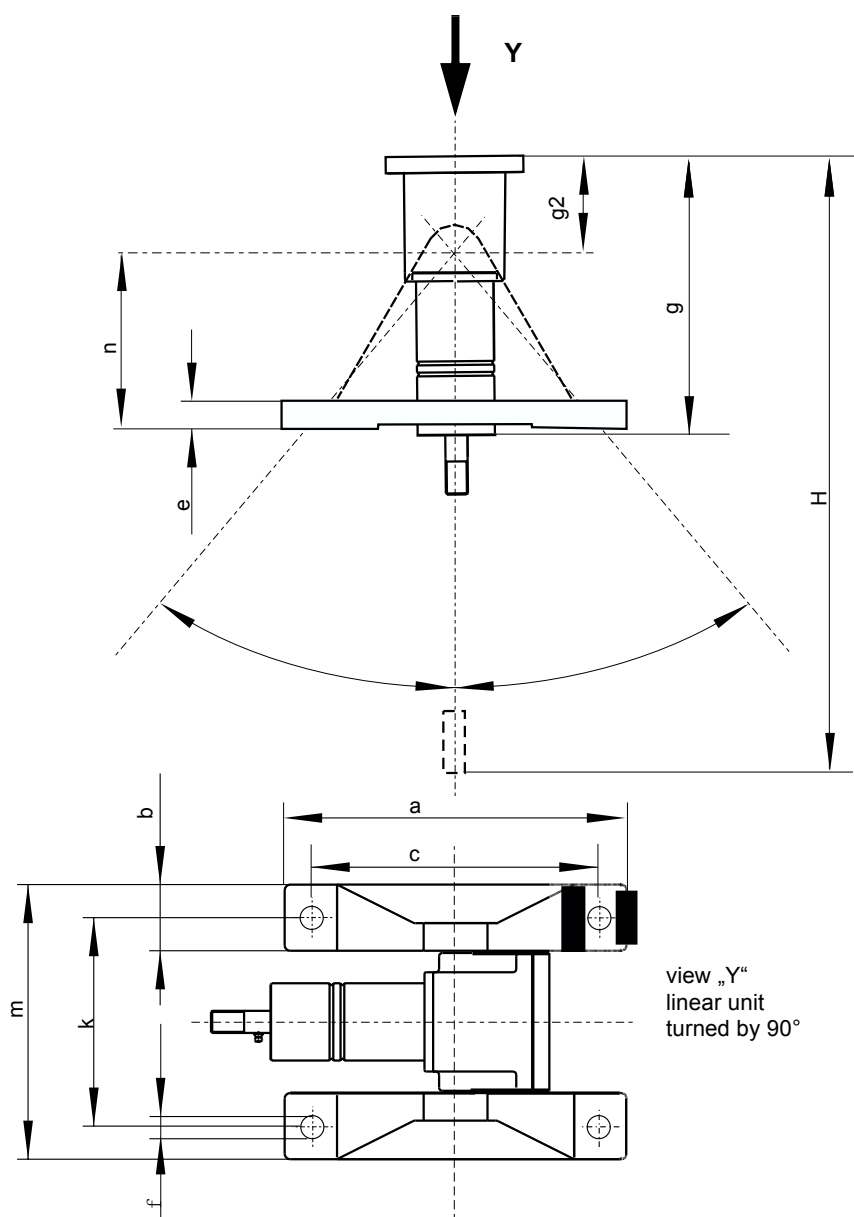
Linear unit with flange



dimensions	LE 12.1					LE 25.1					LE 50.1				LE 70.1			
valve flange DIN 3358	F07 (F10)					F07 (F10)					F10				F14			
actuator	MOE 708 MME 808					MOE 708 MME 808					MOE 712 MME 812				MOE 725 MME 825			
actuator flange ISO 5210	F10 / B1					F10 / B1					F10 / B1				F14 / B1			
stroke	50	100	200	400	500	50	100	200	400	500	63	125	200	400	80	160	320	400
d1	75 (125)					75 (125)					125				175			
d2	70 f8					70 f8					70 g7				100 f8			
d3	70 (102)					70 (102)					102				140			
d4	M8 (11)					M8 (11)					11				18			
d8	M12 x 1.25					M16 x 1.5					M20 x 1.5				M36 x 3			
g1	191	241	341	541	641	191	241	341	541	641	234	296	421	571	293	373	533	613
h	3					3					3				4			
h3	20 (15)					20 (15)					15				18			
L2	20					25					30				55			
L4	44					49					54				74			

Dimensions

Linear unit with footing and lever



dimensions	LE 12.1					LE 25.1					LE 50.1				LE 70.1			
valve flange DIN 3358	F07 (F10)					F07 (F10)					F10				F14			
actuator	MOE 708 MME 808					MOE 708 MME 808					MOE 712 MME 812				MOE 725 MME 825			
stroke H	50	100	200	400	500	50	100	200	400	500	63	125	200	400	80	160	320	400
a	310					310					310				565			
b	60					60					60				80			
c	260					260					260				500			
e	25					25					25				32			
f	17.5					17.5					17.5				26			
g	195	245	345	545	645	195	245	345	545	645	238	300	425	575	296	376	536	616
g2						70					70				70			
max.	45°					45°					45°				45°			
n	160					160					160				315			

Notes

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