

Technical data Linear thrust units with multi-turn actuators for modulating duty

Type	Stroke Max. [mm]	Thrust ¹⁾		Thrust at modulating torque ²⁾ Max. [kN]	Valve attachment	Stem thread ³⁾	Factor ⁴⁾	Suitable multi-turn actuator	Output speed [rpm]	Running speed [mm/min]	Thrust at stall torque ⁵⁾ Max. [kN]	Weight ⁶⁾ approx. [kg]
		Min. [kN]	Max. [kN]									
LE 12.1	50	6	11.5	6	F07 F10	26 x 5 LH	2.6	SAR 07.2	4	20	23	8
	100								5.6	28		9
	200								8	40		10
	400								11	55		13
	500								16	80		14
	500								22	110		14
LE 25.1	50	12	23	12	F07 F10	26 x 5 LH	2.6	SAR 07.6	32	160	42	13
	100								45	225		14
	200								4	20		8
	400								5.6	28		9
	500								8	40		10
	500								11	55		13
LE 50.1	63	20	37.5	20	F10	32 x 6 LH	3.2	SAR 10.2	16	80	60	15
	125								22	132		18
	250								32	192		18
	400								15	270		18
	400								4	28		23
	400								5.6	39		26
LE 70.1	80	30	64	30	F14	40 x 7 LH	3.9	SAR 14.2	8	56	92	32
	160								11	77		35
	320								16	112		35
	400								22	154		35
	400								32	224		35
	400								45	315		35
LE 100.1	80	64	128	52	F14	40 x 7 LH	3.9	SAR 14.6	4	28	180	23
	160								5.6	39		26
	320								8	56		32
	400								11	77		35
	400								16	112		35
	400								22	154		35
LE 200.1	100	110	217	87	F16	48 x 8 LH	4.6	SAR 16.2	32	224	300	45
	200								45	315		50
	400								4	32		62
	500								8	64		68
	500								11	88		68
	500								16	128		68

Weight base	Type	LE 12.1	LE 25.1	LE 50.1	LE 70.1	LE 100.1	LE 200.1
	approx. [kg]	11			40		

General information

AUMA linear thrust units type LE 12.1 – LE 200.1 are used in combination with multi-turn actuators on valves which require linear travel. The linear thrust units convert the output torque of the multi-turn actuator into axial thrust. For other applications, please consult AUMA. 100 % load may only be applied for a short time during opening and closing.

Notes on table

1) Thrust	For min./max. settings of torque switching at actuator, tolerance $\pm 20\%$.
2) Thrust for modulating torque	Permissible maximum thrust for modulating torque
3) Stem thread	LH = Stem extension for clockwise rotation of multi-turn actuator
4) Factor	Conversion factor for torque (T in Nm) into thrust (F in kN) for a mean adhesion factor of 0.15 ($T = F \times f$)
5) Thrust at stall torque	Thrust for modulating actuator stall torque and 100 % nominal voltage
6) Weight	Weight indicated does neither include multi-turn actuator nor base

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Features and functions			
Type of duty	Intermittent duty S4 – 25 %; based on maximum thrust for modulating torque		
Self-locking	Yes		
Input speed	Refer to page 1		
Valve attachment			
Valve attachment	Refer to Dimensions Mounting dimensions Linear thrust unit LE 12.1 – LE 200.1		
Output drive types	Standard:	For stem thread, refer to page 1	
	Option:	RH = Stem retraction for clockwise rotation of multi-turn actuator	
Service conditions			
Ambient temperature	Standard:	–25 °C to +80 °C	
	Options:	0 °C to +120 °C	
		–40 °C to +60 °C –60 °C to +60 °C	
Enclosure protection according to EN 60529	Standard:	IP 67	
Corrosion protection	Standard:	KS	Suitable for installation in industrial units, in water or power plants with a low pollutant concentration as well as for installation in occasionally or permanently aggressive atmosphere with a moderate pollutant concentration (e.g. wastewater treatments plants, chemical industry)
	Options:	KX	Suitable for installation in extremely aggressive atmospheres with high humidity and high pollutant concentration
Finish coating base	Two-component iron-mica combination		
Colour base	Standard:	AUMA silver-grey (similar to RAL 7037)	
	Option:	Other colours are possible on request.	
Further information			
EU Directives	Machinery Directive: (2006/42/EC)		
Reference documents	Technical data SAR .2		
	Electrical data SAR .2		
	Dimensions LE 12.1 – LE 200.1 with SA 07.2 – SA 16.2/SAR 07.2 – SAR 16.2		