

Technical data Linear thrust unit with multi-turn actuators for open-close duty

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.

Type	Stroke ¹⁾	Thrust ²⁾		Valve at- tachment	Thread of valve stem ³⁾	Factor ⁴⁾	Suitable multi-turn actuator	Input speed	Operating speed	Max. perm. thrust ⁵⁾	Weight ⁶⁾
	Max. [mm]	Min. [kN]	Max. [kN]					[rpm]	[mm/min]	Max. [kN]	approx. [kg]
LE 12.1	50	4	11.5	F07 F10	26 x 5 LH	2.6	SA 07.2	4	20	23	8
	100							5.6	28		9
								8	40		
	200							11	55		10
								16	80		
	400							22	110		13
LE 25.1	50	8	23	F07 F10	26 x 5 LH	2.6	SA 07.6	32	160	42	14
	100							45 ⁷⁾	225		
								4	20		8
								5.6	28		9
	200							8	40		
	400							11	55		10
LE 50.1	50	12.5	37.5	F10	32 x 6 LH	3.2	SA 10.2	16	80	60	13
	100							22	110		14
								32	160		
	200							45 ⁷⁾	225		18
	400							4	24		10
								5.6	33		12
LE 70.1	63	25	64	F14	40 x 7 LH	3.9	SA 14.2	8	48	92	15
	125							11	66		
	250							16	96		23
	400							22	132		26
								32	192		32
								45 ⁷⁾	270		35
LE 100.1	80	50	128	F14	40 x 7 LH	3.9	SA 14.6	4	28	180	23
	160							5.6	39		26
								8	56		32
	320							11	77		
	400							16	112		35
								22	154		
LE 200.1	80	87	217	F16	48 x 8 LH	4.6	SA 16.2	32	224	300	23
	160							45 ⁷⁾	315		26
	320							4	32		45
	400							5.6	44		50
								8	64		62
	500							11	88		
								16	128		68
								22	176		
								32	256		
								45 ⁷⁾	360		

1) Higher strokes on request

2) For min./max. settings of torque switching at actuator, tolerance $\pm 20\%$.

3) LH = Stem extension for clockwise rotation of multi-turn actuator

4) 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 which can be transmitted in exceptional cases.

6) Weight indicated does neither include multi-turn actuator nor base

7) Max. permissible speed. Higher speed is not permitted.

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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		

Features and functions

Type of duty	Short-time duty S2 - 15 min	
Self-locking	Yes	
Closing direction	Standard:	LH Stem extension for clockwise rotation of multi-turn actuator
	Option:	RH Stem retraction for clockwise rotation of multi-turn actuator

Valve attachment

Output drive types	Coupling stud with metric thread (for dimensions, refer to Dimensions Linear thrust unit LE 12.1 – LE 200.1)	
	Standard:	With flange according to DIN 3358
	Options:	Base (without valve mounting flange) Spring-loaded

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:	IP67
Corrosion protection	Standard:	KS Suitable for use in areas with high salinity, almost permanent condensation, and high pollution.
Base coating	Two-component iron-mica combination	
Base colour	Standard:	AUMA silver-grey (similar to RAL 7037)
	Option:	Available colours on request

Further information

EU Directives	Machinery Directive: (2006/42/EC)	
Reference documents	Technical data SA .2	
	Electrical data SA .2	
	Dimensions LE 12.1 – LE 200.1 with SA 07.2 – SA 16.2/SAR 07.2 – SAR 16.2	