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

Type	Stroke	Thrust[1]		Valve attachment	Stem thread[2]	Factor[3]	Suitable multi-turn actuator	Output speed	Running speed	Thrust at stall torque[4]	Weight[5]
	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
								32	160		
	500							45	225		14
LE 25.1	50	8	23	F07 F10	26 x 5 LH	2.6	SA 07.6	4	20	42	8
	100							5.6	28		9
								8	40		
	200							11	55		10
								16	80		
	400							22	110		13
								32	160		
	500							45	225		14
LE 50.1	63	12.5	37.5	F10	32 x 6 LH	3.2	SA 10.2	4	24	60	10
								5.6	33		
	125							8	48		12
								11	66		
	250							16	96		15
								22	132		
	400							32	192		18
								45	270		
LE 70.1	80	25	64	F14	40 x 7 LH	3.9	SA 14.2	4	28	92	23
								5.6	39		
	160							8	56		26
								11	77		
	320							16	112		32
								22	154		
	400							32	224		35
								45	315		
LE 100.1	80	50	128	F14	40 x 7 LH	3.9	SA 14.6	4	28	180	23
								5.6	39		
	160							8	56		26
								11	77		
	320							16	112		32
								22	154		
	400							32	224		35
								45	315		
LE 200.1	100	87	217	F16	48 x 8 LH	4.6	SA 16.2	4	32	300	45
								5.6	44		
	200							8	64		50
								11	88		
	400							16	128		62
								22	176		
	500							32	256		68
								45	360		

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 ± 20 %.
2) Stem thread	LH = Stem extension for clockwise rotation of multi-turn actuator
3) Factor	Conversion factor for torque (T in Nm) into thrust (F in kN) for a mean adhesion factor of 0.15 (T = F x f)
4) Thrust at stall torque	Thrust for actuator stall torque and 100 % nominal voltage
5) Weight	Weight indicated does neither include multi-turn actuator nor base

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

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Features and functions			
Type of duty	Short-time duty S2 - 15 min		
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 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

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