

L1 - LOCKING UNIT FOR CYLINDERS AND PISTON RODS



Reference Standard

ATEX
2014/34/UE



Pressures

4 bar (0.4 MPa)
10 bar (1 MPa)



Temperature

-20 °C
+ 80 °C

CHARACTERISTICS

Fluid	filtered air, with or without lubrication
Body	die-cast aluminium
Cover	die-cast aluminium
Piston	aluminium
Seals	NBR
Springs	Special steel

M, L, W, RS series cylinders



Series	Bore (mm)	Piston rod bore (mm)	Option
L 1 N	0 6 3	2 0	☐
L1-N Locking unit for cylinders and piston rods	016 = Ø016 020 = Ø020 025 = Ø025 032 = Ø032 040 = Ø040	050 = Ø050 063 = Ø063 080 = Ø080 100 = Ø100 125 = Ø125	Ø06 Ø16 Ø08 Ø20 Ø10 Ø25 Ø12 Ø32
			k Metallic piston rod scraper on request

Ø	Ø Piston rod (mm)	Static locking force	Pressure on the equivalent cylinder	Dynamic braking force	Response time at 6 bar	Stopping point repeatability	Vibration resistance	Shock resistance	Minimum release pressure
		N	bar	a 1m/s	ms			J	bar
16	6	200			12			2	
20	8	314			12			3	
25	10	490			15			4	
32	12	800			20			5	
40	16	1260	10	40% of the static locking force	20	< 1 mm a 1 m/s	10 g (10-55 Hz) for 30 minutes on each axis	8	4
50	20	2000			25			11	
63	20	3100			25			15	
80	25	5000			30			21	
100	25	7850			30			29	
125	32	12300			40			40	

Locking unit with M8 inductive position sensor

