

**ORIGINAL**

Locking system UNIVER Original since 1998

**STATIC/DYNAMIC**

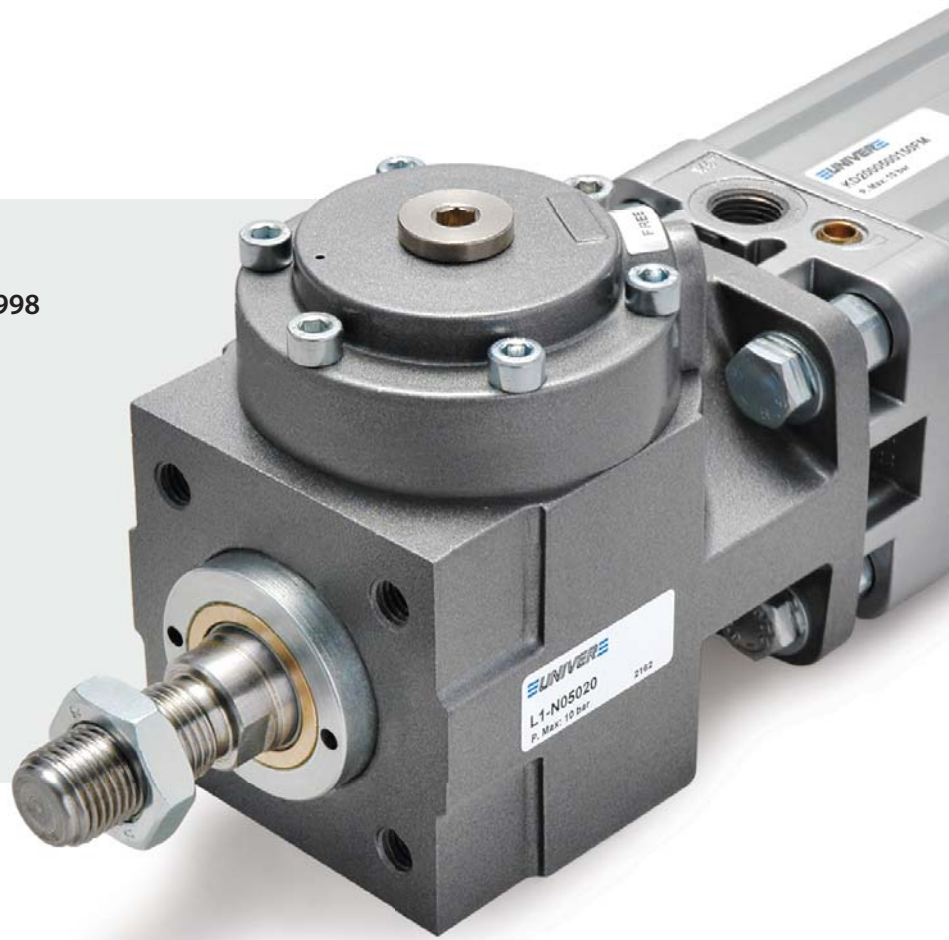
Static locking and dynamic braking in a single device

**POWERFUL**

The highest locking force among market equivalent devices

**SAFE**

No rod slipping even if affected by oil and grease


**L1-N**

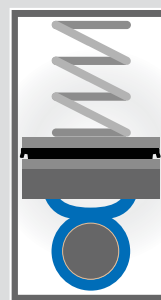
 For cylinders  $\varnothing 16 \div 125$  mm

 For piston rods  $\varnothing 6 \div 32$  mm

**M**

**KL  
KE/K  
KD**

**RS**

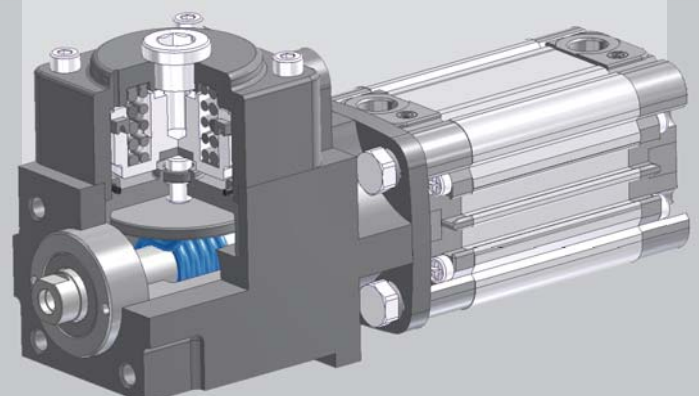
**Working principle**


Locked piston rod



Free piston rod

← min 4 bar



**CHARACTERISTICS**

Ambient temperature	-20 ÷ 30 °C
Fluid	filtered air, with or without lubrication
Working pressure	4 ÷ 10 bar
Body	die-cast aluminium
Cover	die-cast aluminium
Piston	aluminium
Seals	nitrile rubber
Springs	special steel

M, KL, KE/K, KD, RS series cylinders



**CODIFICATION KEY**

L	1	-	N	0	6	3	2	0	
1		2		3		4			

1 Series	2 Cylinder bore (mm)	3 Piston rod bore (mm)	4 Option
L1-N = Locking unit for cylinders and piston rod	<b>016</b> = Ø16 <b>050</b> = Ø50 <b>020</b> = Ø20 <b>063</b> = Ø63 <b>025</b> = Ø25 <b>080</b> = Ø80 <b>032</b> = Ø32 <b>100</b> = Ø100 <b>040</b> = Ø40 <b>125</b> = Ø125	<b>06</b> = Ø6 <b>16</b> = Ø16 <b>08</b> = Ø8 <b>20</b> = Ø20 <b>10</b> = Ø10 <b>25</b> = Ø25 <b>12</b> = Ø12 <b>32</b> = Ø32	<b>K</b> = Metallic piston rod scraper upon request

Core features and performance

Ø	Ø 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	at 1m/s	ms			J	bar
16	6	200	10	40% of the static locking force	12	< 1 mm at 1 m/s	10 g (10-55 Hz) for 30 minutes on each axis	2	4
20	8	314			12			3	
25	10	490			15			4	
32	12	800			20			5	
40	16	1260			20			8	
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	

■ **NFZ 160/200**  
ISO 15552 cylinders with integrated locking unit

■ Locking unit with optical positional device