AVENTICS

Cylinder accessories ► Locking Elements, series CL1

Locking unit LU6

Rexroth
Pneumatics

Brochure

Cylinder accessories ► Locking Elements, series CL1

Locking unit LU6

Locking unit, LU6
► Ø32 - 125 mm ► Hold: non-adjustable spring force, Release: compressed air 3

Accessories

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Locking unit, LU6

► Ø32 - 125 mm ► Hold: non-adjustable spring force, Release: compressed air

00134922

Certificates	DGUV Test
Version	Clamping jaw lock
Function	Hold with clamping jaws
release pressure	4 bar / 10 bar
Ambient temperature min./max.	-25°C / +80°C
Medium temperature min./max.	-25°C / +80°C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Static holding force	See table below
Materials:	
Housing	Aluminum, anodized
Seal	Nitrile butadiene rubber
Scraper	Nitrile butadiene rubber

Scope of delivery: LU6, each with 4 flange nuts, washers, and tie rods

Technical Remarks

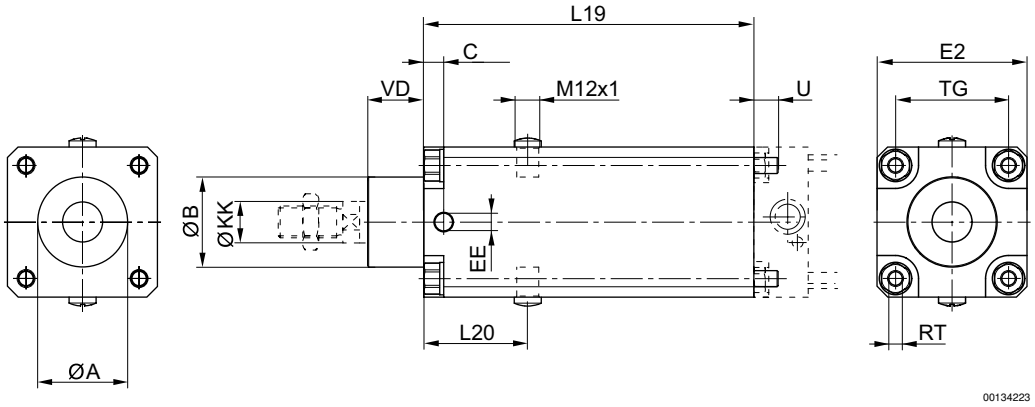
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- Warning:The brake may not be used for the following applications:- for dynamic holding
- Note:Before pressurizing the locking unit, make sure that there is a balance of forces at the piston on the drive cylinder. Please see the operating instructions for further information relevant for safety. The locking unit can be used in controls with a max. performance level c/cat. 1 in accordance with DIN EN ISO 13849-1 (“tested component”). If using controls with a higher performance level, further control measures are required in accordance with DIN EN ISO 13849-1.See the operating instructions for further information.
- The locking unit can be used as an individual component or pre-mounted on a cylinder.
- Number of switching cycles (B10 based on ISO 19973) on request.

	Piston Ø	suitable piston rod diameter	Piston rod extension	Compressed air connection	Static holding force	Required flow rate Qn	Weight	Part No.
	[mm]	[mm]	[mm]		[N]	[l/min]	[kg]	
	32	12	125	G 1/8	760	40	0.8	**5230996402**
	40	16	125	G 1/8	1200	50	1	**5231996402**
	50	20	145	G 1/8	1900	90	1.8	**5232996402**
	63	20	165	G 1/8	3000	150	2.8	**5233996402**
	80	25	185	G 1/8	5000	300	5.5	**5234996402**
	100	25	220	G 1/8	8000	450	9.5	**5235996402**
	125	32	220	G 1/4	12000	700	13.8	**5236996402**
Holding force at 0 bar								

Locking unit, LU6

► Ø32 - 125 mm ► Hold: non-adjustable spring force, Release: compressed air

Dimensions



Piston Ø	ØA	ØB d11	C	EE	E2	L19	L20	ØKK e8-h9	TG	RT	U	VD	
32	30,5	30	9	G1/8	48	125	44	12	32,5	M6	10	19	
40	35,5	35	9	G1/8	53	125	44	16	38	M6	10	21	
50	40,5	40	9	G1/8	63	145	49	20	46,5	M8	11	28	
63	45,5	45	10	G1/8	75	165	52	20	56,5	M8	11	28	
80	45,5	45	11	G1/8	98	185	61.5	25	72	M10	16	34	
100	55,5	55	13	G1/8	118	220	68	25	89	M10	16	37	
125	60,5	60	13	G1/4	142	220	75	32	110	M12	16	45	

Locking unit, LU6
Accessories

Sensors, Series IN1
► for locking unit, series LU6

00136289

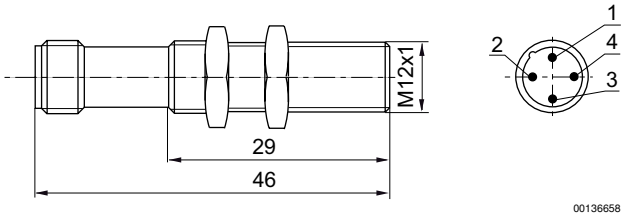
Standardization	DIN EN 60947-5-2
Ambient temperature min./max.	-20 / 65 °C
Protection class	IP 67
Hysteresis	5 - 15%, adjustable
Temperature drift	± 10 %
Residual ripple	≤ 10 %
Reproducibility	≤ 2 %
Switching logic	NO (make contact)
LED status display	Yellow
Materials:	
Housing	Brass

Technical Remarks

- Flush installation.

	Operational voltage	Switching distance max.	Power consumption	Continuous current	Part No.
	[V DC]		[mA]	[mA]	
PNP (1 BN +, 4 BK R_L, 3 BU −)	10 / 30	2 mm	10	200	R412010426
short circuit resistant; Protected against polarity reversal					

Dimensions



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(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black
2) not assigned

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