Rod Lock Series RL

For cylinders ISO 6431/VDMA and ISO 6432 ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125



- » Compact design
- » Functioning in both directions
- » Blocks without pressure releases with pressure



The Series RL rod locks are available in 9 different sizes (diameters: 20, 25, 32, 40, 50, 63, 80, 100 to 125 mm). The compact dimensions allow units to be fitted on cylinders where space is limited.

Rod lock units are often used to hold the load in position during Emergency Stop conditions or when the air supply may be accidently disconnected from the system. The holding forces are measured at 8 bar and apply in both directions.

Caution!

The rod lock should not be used to "brake" the piston rod in dynamic conditions and must only be applied when movement has ceased.

Note:

the cylinder piston rod length must be increased when using a rod lock unit. See the table for the minimum extension lengths for each diameter.

GENERAL DATA

Type of construction compact

Operation piston operated of

Operation piston operated clamp **Materials** housing: anodized AL

clamp: brass seals: NBR

Cylinder diameter ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125

Operating temperature 0°C ÷ 80°C (with dry air -20°C)

Configuration pressure release **Operating pressure** 3 ÷ 8 bar

Ports M5 = Ø20, 25, 32 - G1/8 = Ø40, 50, 63, 80, 100, 125

Fluid Filtered air without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication

should never be interrupted.

CODING EXAMPLE

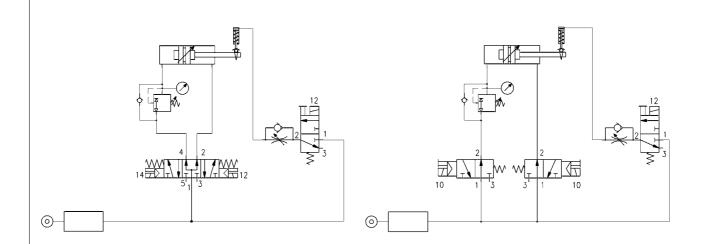
RLC - 41 - 32

RLC SERIES
RLC = standard, complete with cartridge and housing
RLB = cartridge only

41 CYLINDER SERIES
24 = for Series 24 and 25
41 = for Series 60, 61 and 62

32 CYLINDER DIAMETER (mm)
20 = 20 mm
25 = 25 mm
32 = 32 mm
40 = 40 mm
50 = 50 mm
63 = 63 mm
80 = 80 mm
100 = 100 mm
125 = 125 mm

CONNECTION EXAMPLES

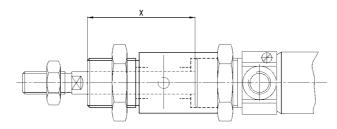


For a correct use of the rod lock Mod. RLC a pneumatic connection is recommended (as shown in the examples).



ROD EXTENSION and HOLDING FORCE

Table showing the rod extensions which are necessary for the rod lock mounting.

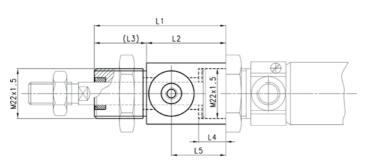


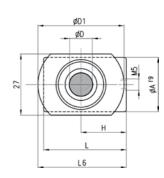
Ø	Rod extension [X] (mm)	Holding force [static load] (N)	
20	+50	300	
25	+48	400	
32	+40	650	
40	+43	1100	
50	+57	1600	
63	+57	2500	
80	+80	4000	
100	+80	6300	
125	+125	8800	

Rod Lock Series RL

ø 20 - 25.





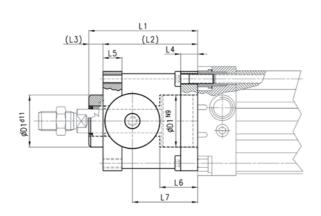


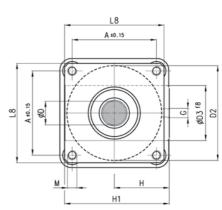
DIMENSIONS														
Mod.	Ø	D	Α	D1	Н	L	L1	L2	L3	L4	L5	L6		
RLC-24-20	20	8	20	38	21	40	58	35	23	12	24	40		
RLC-24-25	25	10	20	38	21	40	58	35	23	12	24	40		

Rod Lock Series RL

ø 32 - 125.







DIMENSIONS																			
Mod.	Ø	D	D1	D2	D3	G	L1	L2	L3	L4	L5	L6	L7	L8	Α	М	Н	H1	Z
RLC-41-32	32	12	30,5	35	25	M5	58	48	10	8	13	20,5	34	45	32,5	M6	25,5	46,5	M6X20
RLC-41-40	40	16	35	40	28	G1/8	65	55	10	8	13	22,5	38	50	38	M6	30	53	M6X20
RLC-41-50	50	20	40	50	35	G1/8	82	70	12	15	16	29,5	48	60	46,5	M8	36	64	M8X30
RLC-41-63	63	20	45	60	38	G1/8	82	70	12	15	16	29,5	49,5	70	56,5	M8	40	75	M8X30
RLC-41-80	80	25	45	80	48	G1/8	110	90	20	18	20	35	61	90	72	M10	50	95	M10X35
RLC-41-100	100	25	55	100	58	G1/8	115	100	15	18	20	39	69	105	89	M10	58	110,5	M10X35
RLC-41-125	125	32	60	130	65	G1/8	167	122	45	22	30	51	86,5	140	110	M12	80	150	M12X40