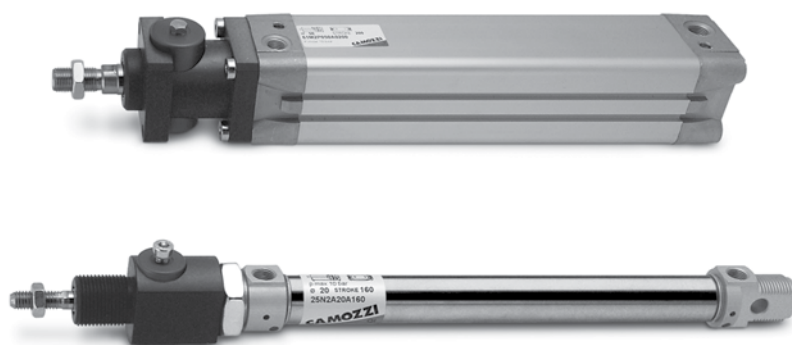


Rod Lock Series RL

1

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 accidentally 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 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
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RLC

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

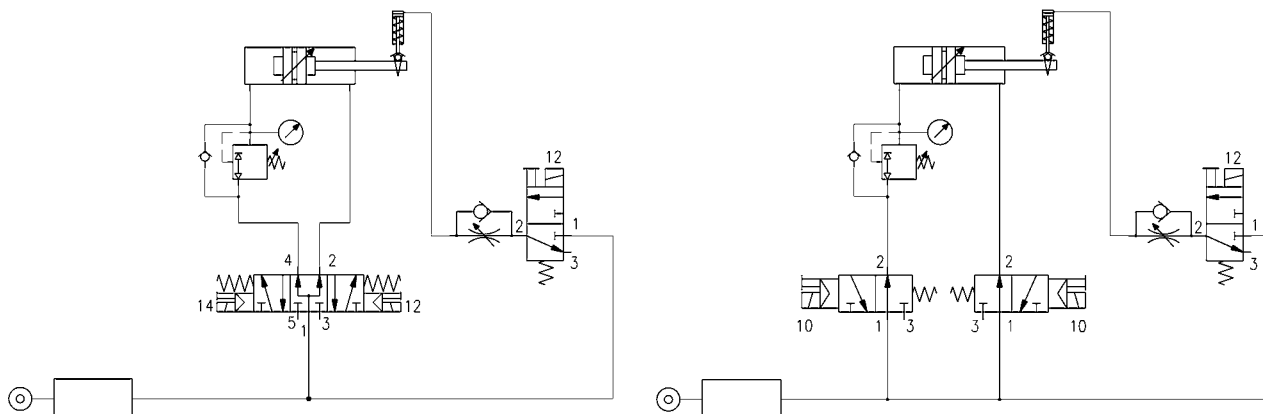
41

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

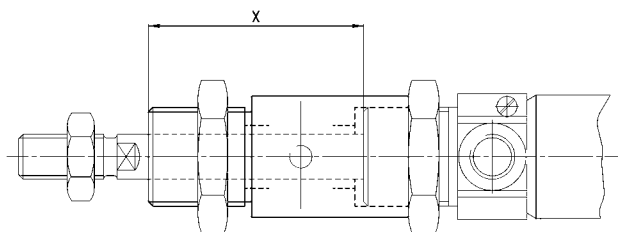
CONNECTION EXAMPLES



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

