Pressure regulators LR/LRS Peripherals overview and type codes





Mounting attachments and accessories		Brief description	→ Page
1 Pressure gauge		The pressure gauges measure pressure in bar and the psi display	3 / 4.8-1
	MA	range or in MPa	
2	Mounting bracket	For wall mounting	3 / 4.1-5
	HR-D		
3	Regulator lock	Prevents unintentional, and in conjunction with an LRVS padlock,	3 / 4.1-5
	LRVS-G-1/8 with lock plate	unauthorised adjustment of the rotary knob	
4	Padlock	Accessory for LRVS	3 / 4.1-5
	LRVS-D		

Type codes

Individual units Pressure regulators

4.1

lype cod	les							
		LR]-[1/8]-C	G	-	7
Servic	e function							
LR	Pressure regulator							
LRS	Pressure regulator, lockable							
Pnoun	natic connection							
1/8	Thread G1/8				J			
Versio	n code							
G	Version code						1	
Pressu	re regulation range							
7	0.5 7 bar							
	0.5 12 bar							

Technical data





Temperature range
 -10 ... +80 °C

L - Input pressure 1 ... 20 bar

The pressure regulator is free of paintwetting impairment substances.

- Larger design (brass housing)
- Good flow rate performance
- Precise diaphragm regulator
- Detenting regulator knob
- Identical mounting backet to D series
- Suitable for input pressures up to p1 = 20 bar
- 2 pressure regulation ranges:
 0.5 ... 7 bar and 0.5 ... 12 bar

The pressure regulator maintains an essentially constant working pressure at the regulator outlet, regardless of pressure fluctuations in the compressed air network. The regulated operating pressure can be reduced by means of the built-in secondary exhaust, even without compressed air consumers.

- The pressure regulator is available in two design variants:
- LR(S)-1/8-G for standard applications.
- LR(S)-1/a-G-7 for special individual cases, e.g. regulators in the pressure range up to 7 bar. This variant demonstrates optimal flow and control characteristics.



General technical data LR(S)-1/8-G LR(S)-1/8-G-7 Туре Pneumatic connection G1⁄8 Operating medium Filtered compressed air, lubricated or unlubricated (grade of filtration ≤40 µm) Input pressure compensated diaphragm pressure regulator with secondary exhaust Design Type of mounting Via accessories Front panel mounting, installation hole \varnothing 36.5 mm Mounting position Any Max. hysteresis 0.2 [bar] Input pressure [bar] 1 ... 20 Pressure regulation range [bar] 0.5 ... 12 0.5 ... 7

Standard nominal flow rate ¹⁾ qnN [l/min]					
Pressure regulation range 0.5 7 bar	700				
Pressure regulation range 0.5 12 bar	600				

1) With 10 bar input pressure, 6 bar working pressure and $\Delta p = 1$ bar.

4.1

Technical data

Ambient conditions		
Ambient temperature	[°C]	-10 +80
Corrosion resistance	CRC ¹⁾	2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Weights [g]						
	LR	LRS				
Pressure regulator	320	420				

Materials Sectional view

Pressure regulators Individual units



Pressure regulator					
1 Housing	Brass				
2 Knurled nut	Aluminium				
3 Rotary knob	LR: Polyacetate				
	LRS: Aluminium				
- Seals	Nitrile rubber				

Primary pressure compensation –	Secondary venting –
Primary pressure p1 as a function of output pressure p2	Output pressure p2 as a function of standard flow rate qn
LR(S)-1/8-G(-7)	LR(S)-1/8-G(-7)
12 10 10	100 90 80





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Technical data





Primary pressure p1 = 7 bar





Primary pressure p1 = 7 bar



Primary pressure p1 = 10 bar



Primary pressure p1 = 14 bar

Primary pressure p1 = 10 bar



Primary pressure p1 = 14 bar

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Ordering data									
Connection	Pressure regulation range 0.5 7 bar		Pressure regulation range 0.5 12 bar						
Part No. Type		Part No. Type							
G ¹ /8 159 506 LR-1/8-G-7			159 505 LR-1⁄8-G						
lockable									
G ¹ /8 194 695 LRS-1/8-G-7 194 694 LRS-1/8-G									

Pressure regulators LR/LRS Accessories

Mounting bracket HR-D for wall mounting

Material: Galvanised steel



B1	B2	D1	L1	Part No.	Туре
		Ø			
42	28	36	57.5	164 936	HR-D-MINI
			Ø	Ø	Ø

Regulator lock LRVS



Ordering data				
	Connection	Weight [g]	Part No.	Туре
Regulator lock	G1⁄8	36	196 080	LRVS-G-1/8

Padlock LRVS-D

Material: Housing: Brass



Ordering data

Oruering uata			
	Weight	Part No.	Туре
	[g]		
Padlock	120	193 786	LRVS-D



Core Range

Individual units Pressure regulators

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