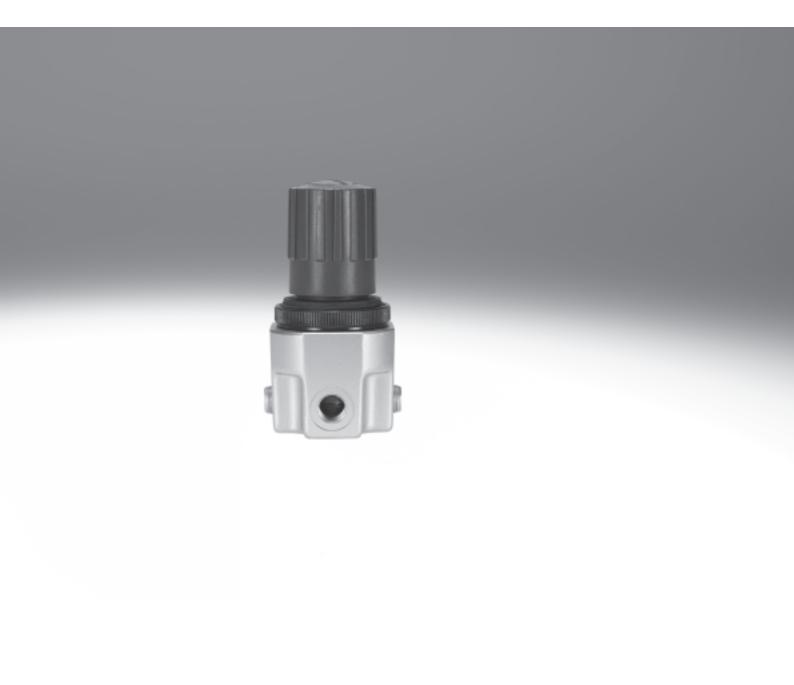
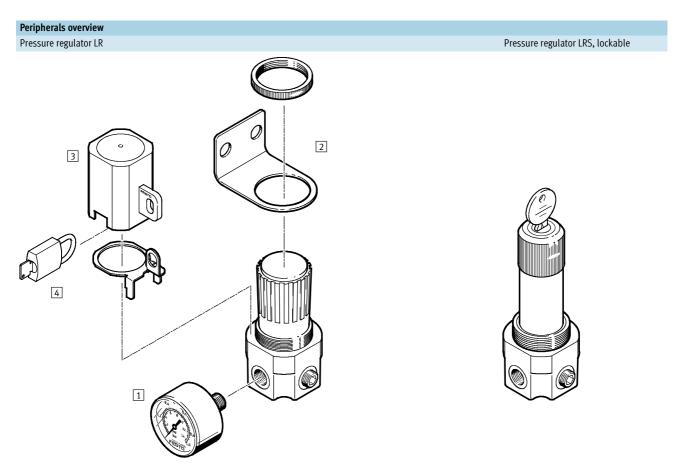
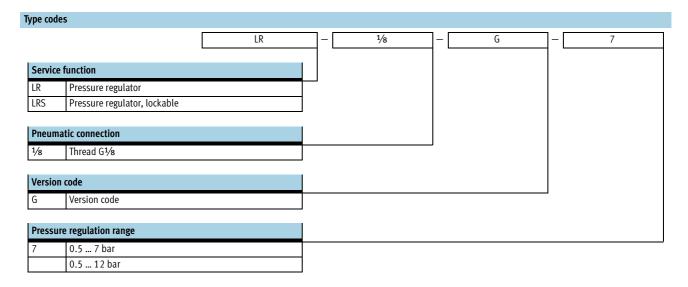
# Pressure regulators LR/LRS

# **FESTO**





Mou	nting attachments and accessories	→ Page/Internet
1	Pressure gauge	ma
	MA	
2	Mounting bracket	7
	HR-D	
3	Regulator lock	7
	LRVS-G-1/8 with lock plate	
4	Padlock	7
	LRVS-D	



## Pressure regulators LR/LRS

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Technical data

#### Function



Flow rate 600 ...700 l/min

Operating pressure 1 ... 20 bar

The pressure regulator is free of paintwetting impairment substances.



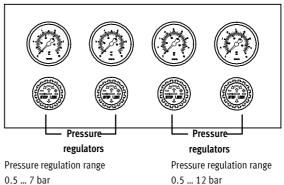
- Larger design (brass housing)
- Good flow rate performance
- Precise diaphragm regulator
- Detenting rotary knob
- Identical mounting backet to D series
- Suitable for input pressures up to p1 = 20 bar
- 2 pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar

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/e-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.

#### Panel mounting



General technical data					
Туре		LR(S)-1/8-G-7		LR(S)-1/8-G	
Pneumatic connection 1, 2		G <sup>1</sup> /8			
Design		Diaphragm regulator with through compressed air supply			
Regulator type		Output pressure constant, with primary pressure compensation, with secondary venting			
Type of mounting		Via accessories			
		In-line installation			
		Front panel mounting, installation hole $\varnothing$ 36.5 mm			
Mounting position		Any			
Actuation security		Rotary knob with detent			
		Rotary knob with integrated lock			
Pressure regulation range [bar]		0.5 7			
Max. hysteresis	[bar]	0.2			
Pressure display		G½ prepared			

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

1) Measured at p1 = 10 bar and p2 = 6 bar,  $\Delta$ p = 1 bar

# Pressure regulators LR/LRS Technical data

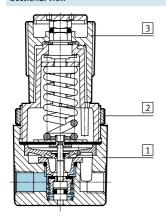


Operating and environmental conditions					
Operating pressure	[bar]	1 20			
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature	[°C]	-10 +80			
Temperature of medium	[°C]	-10 +80			
Storage temperature	[°C]	-10 +80			

Weights [g]				
	LR	LRS		
Pressure regulator	320	420		

### Materials

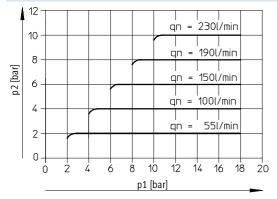
Sectional view



Pressure regulator					
1	Housing	Brass			
2	Knurled nut	Aluminium			
3	Rotary knob	PA			
-	Seals	NBR			

### Primary pressure compensation -Input pressure p1 as a function of output pressure p2

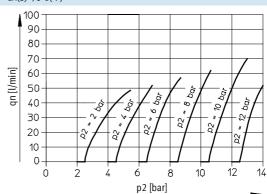
LR(S)-1/8-G(-7)



### Secondary venting -

### Output pressure p2 as a function of standard flow rate qn

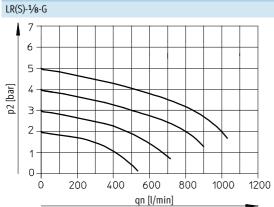
LR(S)-1/8-G(-7)

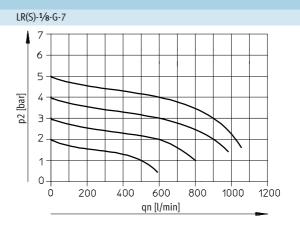


# Pressure regulators LR/LRS Technical data

**FESTO** 

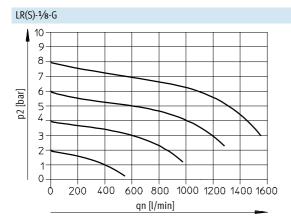


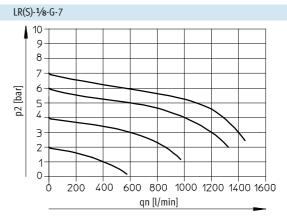




Input pressure p1 = 7 bar

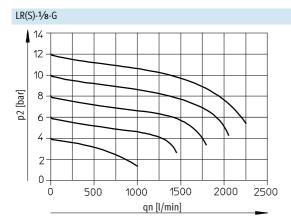
Input pressure p1 = 7 bar

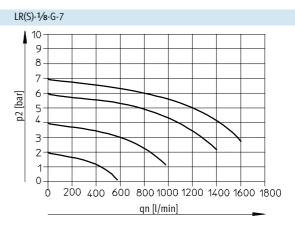




Input pressure p1 = 10 bar

Input pressure p1 = 10 bar



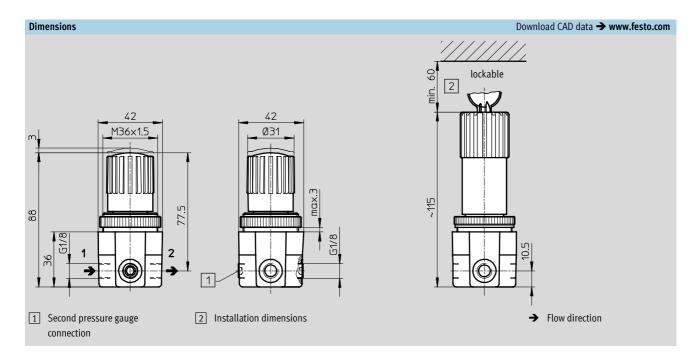


Input pressure p1 = 14 bar

Input pressure p1 = 14 bar

# Pressure regulators LR/LRS Technical data

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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				
G½8	159506 LR-1/8-G-7	159505 LR-1/8-G				
	•	· ·				
lockable						
G1/8	194695 LRS-1/8-G-7	194694 LRS-1/8-G				

# Pressure regulators LR/LRS Accessories

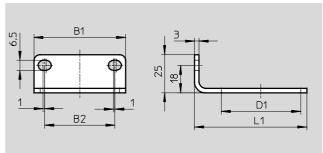
**FESTO** 

### Mounting bracket HR-D

for wall mounting

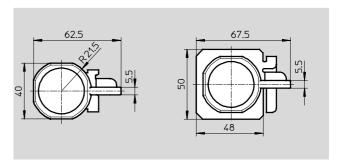
Material: Galvanised steel





Ordering data					
B1	B2	D1	L1	Part No.	Туре
		Ø			
42	28	36	57.5	164936	HR-D-MINI

### Regulator lock LRVS



Ordering data			
Connection	Weight	Part No.	Туре
	[g]		
G <sup>1</sup> / <sub>8</sub>	36	196080	LRVS-G-1/8

### Padlock LRVS-D

Material: Housing: Brass

Ambient temperature: -20 ... +60 °C



Ordering data		
Weight	Part No.	Туре
[g]		
120	193786	LRVS-D