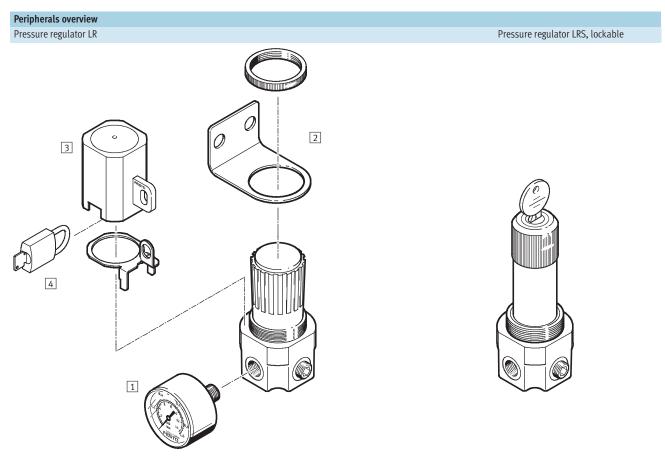
### Pressure regulators LR/LRS

# **FESTO**

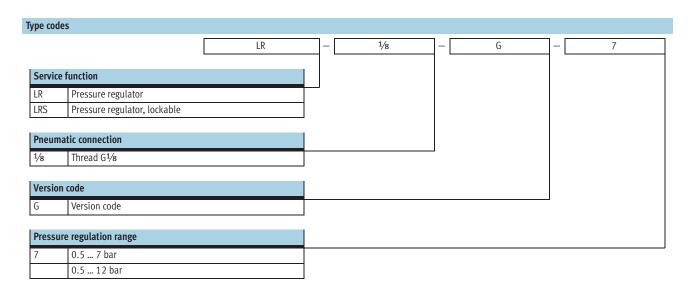


## Pressure regulators LR/LRS Peripherals overview and type codes

**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	

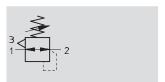


### Pressure regulators LR/LRS

Technical data

#### **FESTO**

#### Function



Flow rate 600 ...700 l/min

Temperature range −10 ... +80 °C

Input pressure 1 ... 20 bar

The pressure regulator is free of paintwetting impairment substances.



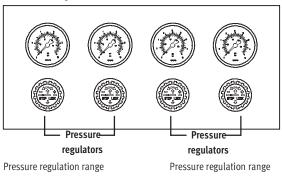
- Larger design (brass housing)
- Good flow rate performance
- Precise diaphragm regulator
- Detenting regulator knob
- Identical mounting backet to
- Suitable for input pressures up to p1 = 20 bar
- 2 pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar

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)-1/8-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



0.5 ... 7 bar

0.5 ... 12 bar

General technical data				
Туре		LR(S)-1/8-G		LR(S)-1/8-G-7
Pneumatic connection		G½		
Operating medium		Filtered compressed air, lubricated or unlubricated (grade of filtration ≤40 µm)		
Design		Input pressure compensated diaphragm pressure regulator with secondary exhaust		
Type of mounting		Via accessories		
		Front panel mounting, installation hole $\varnothing$ 36.5 mm		
Mounting position		Any		
Max. hysteresis [bar]		0.2		
Input pressure	[bar]	1 20		
Pressure regulation range	[bar]	0.5 12		0.5 7

Standard nominal flow rate <sup>1)</sup> 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.

## Pressure regulators LR/LRS Technical data



Ambient conditions	ent conditions				
Ambient temperature	[°C]	-10 +80			
Corrosion resistance	CRC <sup>1)</sup>	2			

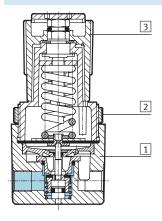
1) Corrosion resistance class 2 according to Festo standard 940 070

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

Weights [g]					
	LR	LRS			
Pressure regulator	320	420			

#### Materials

Sectional view

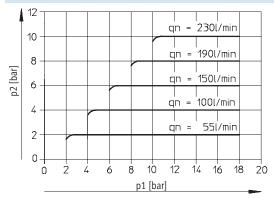


Pressure regulator				
1 Housing	Brass			
2 Knurled nut	Aluminium			
3 Rotary knob	LR: Polyacetate			
	LRS: Aluminium			
- Seals	Nitrile rubber			

### Primary pressure compensation -

### Primary pressure p1 as a function of output pressure p2

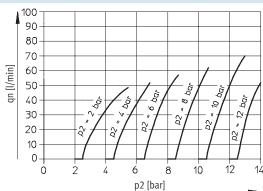
LR(S)-1/8-G(-7)



#### Secondary venting -

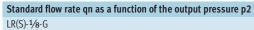
### Output pressure p2 as a function of standard flow rate qn

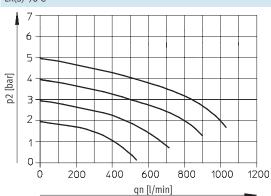
LR(S)-1/8-G(-7)



# Pressure regulators LR/LRS Technical data

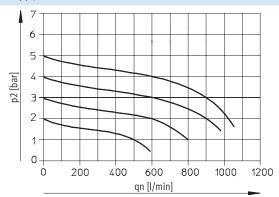
**FESTO** 





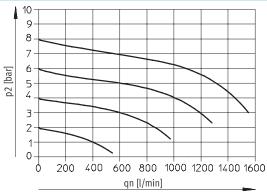
Primary pressure p1 = 7 bar

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



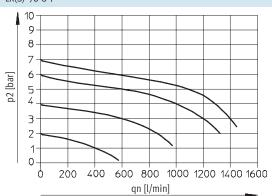
Primary pressure p1 = 7 bar

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



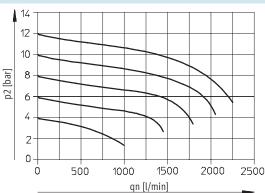
Primary pressure p1 = 10 bar

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



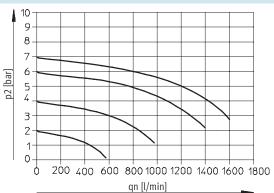
Primary pressure p1 = 10 bar

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



Primary pressure p1 = 14 bar

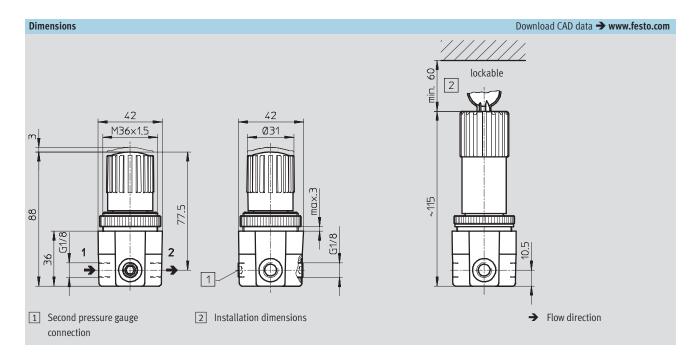
### LR(S)-1/8-G-7



Primary pressure p1 = 14 bar

# Pressure regulators LR/LRS Technical data





Ordering data						
Connection	Pressure regulation range 0.5 7 bar		Pressure regulation range 0.5 12 bar			
	Part No. Type		Part No. Type			
G <sup>1</sup> / <sub>8</sub>	159506 LR-1/8-G-7		159505 LR-½-G			
lockable						
G <sup>1</sup> / <sub>8</sub>	194695 LRS-1/8-G-7		194694 LRS-½-G			

# Pressure regulators LR/LRS Accessories

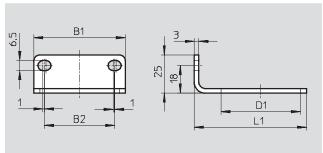
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### Mounting bracket HR-D

for wall mounting

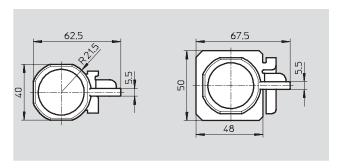
Material: Galvanised steel





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

### Regulator lock LRVS



Ordering data						
Connection	Weight	Part No.	Туре			
	[g]					
G <sup>1</sup> /8	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