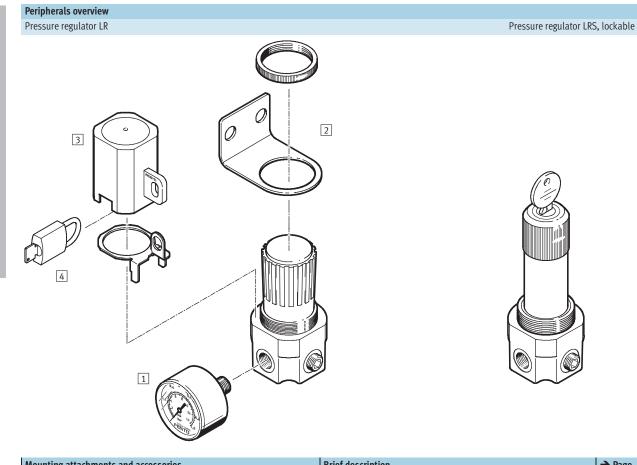
# **Pressure regulators LR/LRS** Peripherals overview and type codes

## **FESTO**



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		

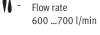
#### Type codes

3/4.1-0

ype cou	ues						
		LR	 1/8	-	G	-	7
Servio	ce function						
LR	Pressure regulator						
LRS	Pressure regulator, lockable						
Pneun	natic connection						
1⁄8	Thread G1⁄8						
Versio	on code						
G	Version code					I	
	•						
Press	ure regulation range						
7	0.5 7 bar						
	0.5 12 bar						

Technical data





Temperature range -10 ... +80 °C

Input pressure 1 ... 20 bar

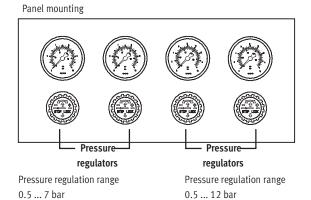
The pressure regulator is free of paintwetting impairment substances.

- Larger design (brass housing)
- Good flow rate performance
- Precise diaphragm regulator
- Detenting regulator knob
- Identical mounting backet to 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)-1/8-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.



General technical data					
Туре		LR(S)-1/8-G		LR(S)-1⁄/8-G-7	
Pneumatic connection		G1⁄8			
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 $arnothing$ 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.



Technical data

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

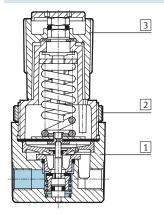
1) Corrosion resistance class 2 according to Festo standard 940 070

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 cooling or lubricating agents.

Weights [g]							
	LR	LRS					
Pressure regulator	320	420					

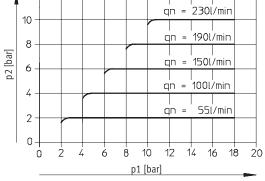
Materials Sectional view

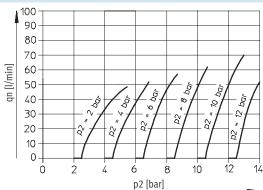
Individual units Pressure regulators



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

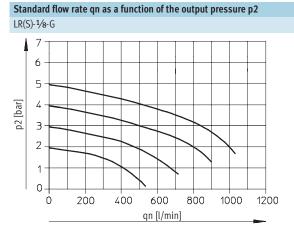
# Primary pressure compensation – Secondary venting – Primary pressure p1 as a function of output pressure p2 Output pressure p2 as a function of standard flow rate qn LR(S)-1/8-G(-7) LR(S)-1/8-G(-7)

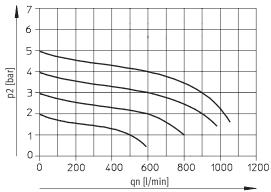




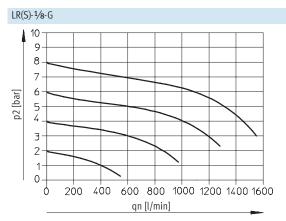
## FESTO

Technical data



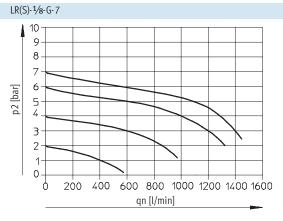


Primary pressure p1 = 7 bar

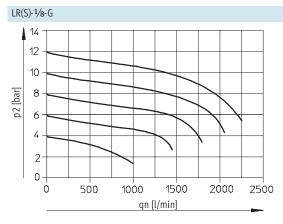


Primary pressure p1 = 7 bar

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

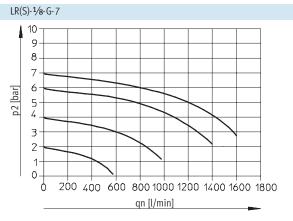


Primary pressure p1 = 10 bar



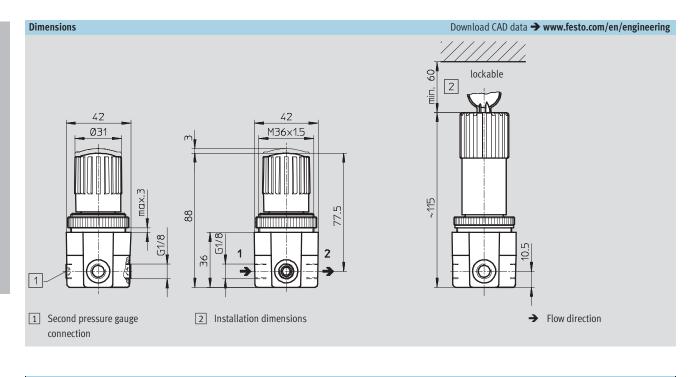
Primary pressure p1 = 14 bar

Primary pressure p1 = 10 bar



Primary pressure p1 = 14 bar

**FESTO** 



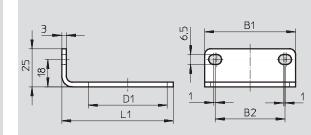
Ordering data								
Connection	essure regulation range 0.5 7 bar		Pressure regulation range 0.5 12 bar					
	Part No. Type		Part No. Type					
G1⁄8	159 506 LR-1⁄8-G-7		159 505 LR-1⁄8-G					
lockable								
G1/8	194 695 LRS-1⁄/8-G-7		194 694 LRS-1⁄8-G					

# Pressure regulators LR/LRS Accessories

Mounting bracket HR-D for wall mounting

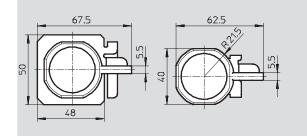
Material: Galvanised steel





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

#### Regulator lock LRVS



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

#### Padlock LRVS-D

Material: Housing: Brass



### Ordering data

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

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