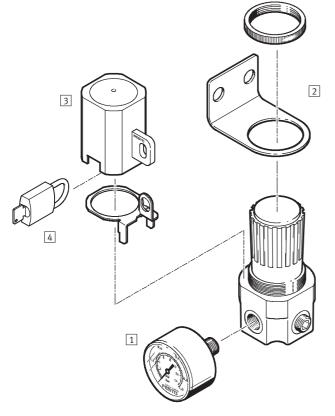
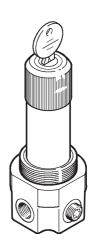
Peripherals overview Pressure regulator LR

Pressure regulator LRS, lockable





Mou	nting 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 co	des						
		LR		1/8	 G		7
Servio	e function						
LR	Pressure regulator						
LRS	Pressure regulator, lockable						
	•		•				
Pneur	natic connection						
1/8	Thread G½						
	•						
Versio	on code						
G	Version code					_	
	•		l				
Press	ure regulation range						
7	0.5 7 bar						
	0.5 12 bar						

Pressure regulators LR/LRS

Technical data

Function



- N - Flow rate 600 ...700 l/min

- Temperature range -10 ... +80 °C

- lnput 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

FESTO

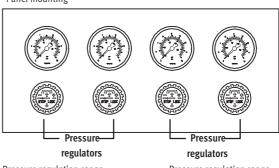
• 2 pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar

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



Pressure regulation range 0.5 ... 7 bar

Pressure regulation range 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 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.

Ambient conditions

Ambient temperature [°C] -10 ... +80

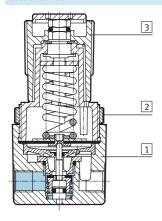
Corrosion resistance CRC¹⁾ 2

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

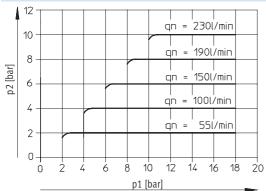


Pressure regulator					
1 Housing	Brass				
2 Knurled nut	Aluminium				
3 Rotary knob	LR: Polyacetate				
	LRS: Aluminium				
- Seals	Nitrile rubber				

Primary pressure compensation -

Primary pressure p1 as a function of output pressure p2

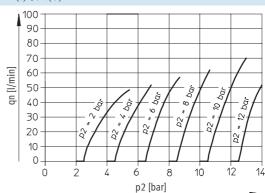
LR(S)-1/8-G(-7)



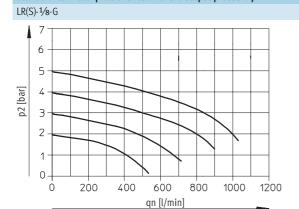
Secondary venting -

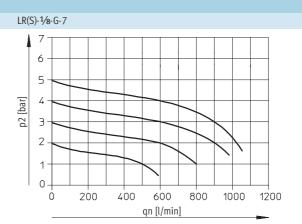
Output pressure p2 as a function of standard flow rate qn

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



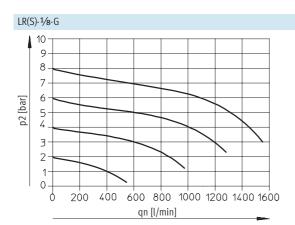


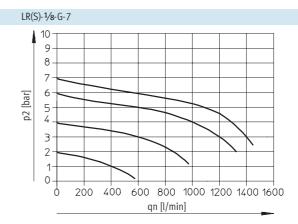




Primary pressure p1 = 7 bar

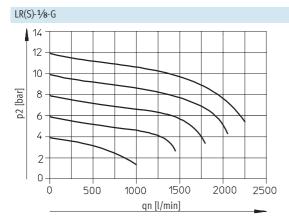
Primary pressure p1 = 7 bar

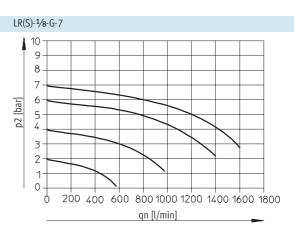




Primary pressure p1 = 10 bar

Primary pressure p1 = 10 bar

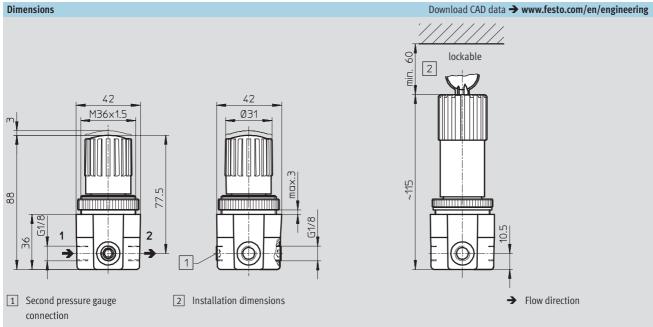




Primary pressure p1 = 14 bar

Primary pressure p1 = 14 bar

4.1

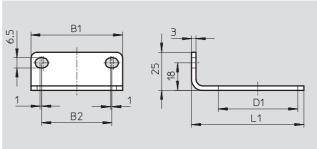


Ordering data									
Pressure regulation range 0.5 7 bar	Pressure regulation range 0.5 12 bar								
Part No. Type	Part No. Type								
159 506 LR-1/8-G-7	159 505 LR- ¹ / ₈ -G								
lockable									
194 695 LRS-1/8-G-7	194 694 LRS-1/8-G								
	Part No. Type 159 506 LR-1/8-G-7								

Mounting bracket HR-D for wall mounting

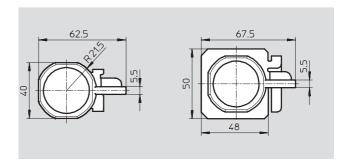
Material: Galvanised steel





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

Regulator lock LRVS



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

Padlock LRVS-D

Material: Housing: Brass



Ordering data			
	Weight [g]	Part No.	Туре
Padlock	120	193 786	LRVS-D