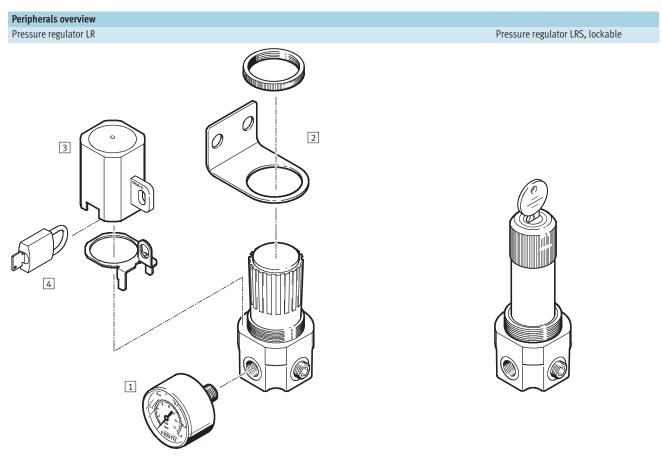
Pressure regulators LR/LRS

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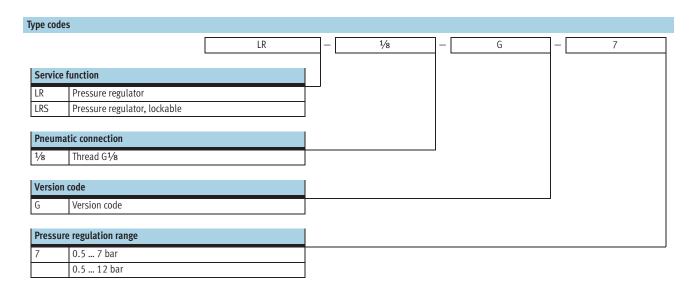


Pressure regulators LR/LRS Peripherals overview and type codes

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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	

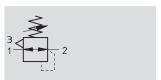


Pressure regulators LR/LRS

Technical data

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Function



- N - 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.



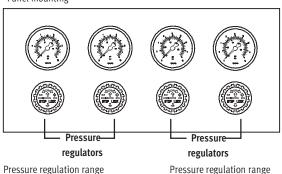
- Larger design (brass housing)
- Good flow rate performance
- Precise diaphragm regulator
- Detenting regulator knob
- Identical mounting backet to D series
- Suitable for input pressures up to p1 = 20 bar
- 2 pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar

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



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		G ¹ / 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 \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.

Pressure regulators LR/LRS Technical data



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

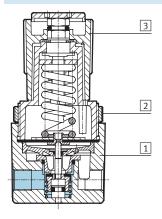
1) Corrosion resistance class 2 according to Festo standard 940 070

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

Weights [g]					
	LR	LRS			
Pressure regulator	320	420			

Materials

Sectional view

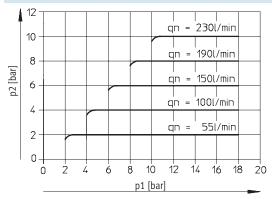


Pres	Pressure regulator					
1	Housing	Brass				
2	Knurled nut	Aluminium				
3	Rotary knob	LR: Polyacetate				
		LRS: Aluminium				
-	Seals	Nitrile rubber				

Primary pressure compensation -

Primary pressure p1 as a function of output pressure p2

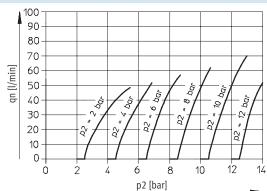
LR(S)-1/8-G(-7)



Secondary venting -

Output pressure p2 as a function of standard flow rate qn

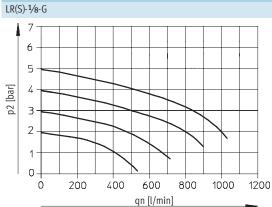
LR(S)-1/8-G(-7)



Pressure regulators LR/LRS Technical data

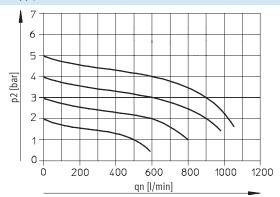
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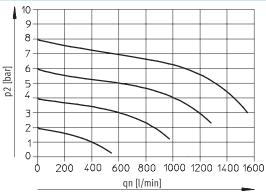
Primary pressure p1 = 7 bar

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



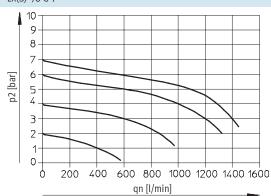
Primary pressure p1 = 7 bar

LR(S)-1/8-G



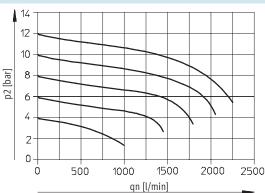
Primary pressure p1 = 10 bar

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



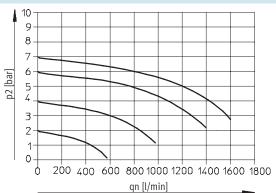
Primary pressure p1 = 10 bar

LR(S)-1/8-G



Primary pressure p1 = 14 bar

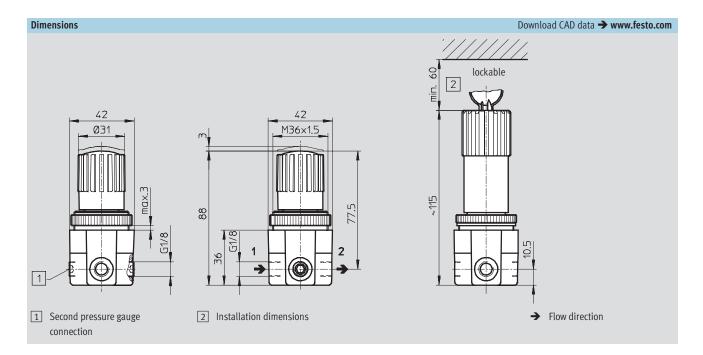
LR(S)-1/8-G-7



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 ¹ / ₈	159506 LR-1/8-G-7		159505 LR-½-G			
lockable						
G ¹ / ₈	194695 LRS-1/8-G-7		194694 LRS-½-G			

Pressure regulators LR/LRS Accessories

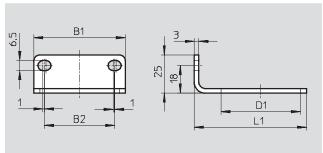
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Mounting bracket HR-D

for wall mounting

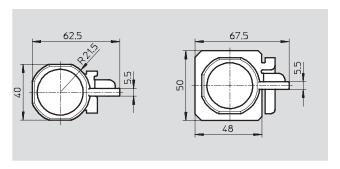
Material: Galvanised steel





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]		
G½	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

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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