

Pressure regulators LR/LRS/LRB/LRBS, D series

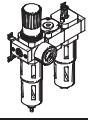
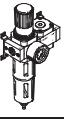
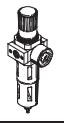
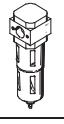
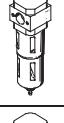
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Pressure regulators LR/LRS/LRB/LRBS, D series, metal design

Product range overview D series service units, metal design

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Type	Size	Pneumatic connection										Pressure regulation range [bar]			Grade of filtration [μm]								
		M5	M7	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$	G1	QS4	QS6	0.5	0.5	2.5	...	12	12	0.01	1	5	40		
Service units																							
FRC/FRCS		Micro	■	■	■	—	—	—	—	■	■	■	■	■	—	—	—	—	■	—	—	—	
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	—	—	—	■	■	—	■	■	
		Midi	—	—	—	■	■	■	—	—	—	—	■	■	—	—	—	■	■	—	■	■	
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	—	—	■	■	—	■	■	
Service unit combinations																							
FRC-K		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	■	—	—	■	■	—	—	■
LFR-K LFRS-K		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	■	—	—	■	■	—	—	■
Individual devices																							
Filter regulators LFR/LFRS		Micro	■	■	■	—	—	—	—	■	■	■	■	■	—	—	—	—	■	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	■	■
		Midi	—	—	—	■	■	■	■	■	—	—	—	■	■	■	—	—	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	—	■	■	■	—	—	■	■	—	■	■
Filters LF		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	—	—	■	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	■	■
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	—	■	■	■
Fine and micro filters LFMA/LFMB		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	■	■
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	—	■	■	■
Active carbon filters LFX		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	■	■
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	—	■	■	■
Filter combinations LFMBA		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	■	■
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	—	■	■	■
Pressure regulators LR/LRS		Micro	■	■	■	—	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	—	—	—	—

Pressure regulators LR/LRS/LRB/LRBS, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Bowl guard	Condensate drain		Pressure indication		Actuator lock	Supply voltage		Options			➔ Page/ Internet		
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC		
Service units															
FRC/FRCS	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	frc
	Mini	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	-	-	-	■	
Service unit combinations															
FRC-K	Micro	-													frc
	Mini	■	-	■	-	■	■	-	■	-	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	-	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	-	■	-	-	■	
LFR-K	Micro	-													lfr
	Mini	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	■	■	-	-	■	
Individual devices															
Filter regulators	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	lfr
	Mini	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	-	-	-	■	
LFR/LFRS	Micro	-													
	Mini	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	■	■	-	-	■	
Filters LF	Micro	-	■	■	■	■	-	-	-	-	-	-	-	-	lf
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	-	
Fine and micro filters LFMA/LFMB	Micro	-													lfma, lfmb
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	■	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	■	
Active carbon filters LFX	Micro	-													lfx
	Mini	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Midi	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Maxi	■	-	-	-	-	-	-	-	-	-	-	-	-	
Filter combinations LFMBA	Micro	-													lfmba
	Mini	■	-	■	-	■	-	■	-	■	-	-	-	■	
	Midi	■	-	■	-	■	-	■	-	■	-	-	-	■	
	Maxi	■	-	■	-	■	-	■	-	■	-	-	-	■	
Pressure regulators LR/LRS	Micro	-	-	-	-	-	■	■	■	■	-	-	-	-	6
	Mini	-	-	-	-	-	■	■	■	■	-	-	-	■	
	Midi	-	-	-	-	-	■	■	■	■	-	-	-	■	
	Maxi	-	-	-	-	-	■	■	■	■	-	-	-	■	

Pressure regulators LR/LRS/LRB/LRBS, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Pneumatic connection										Pressure regulation range [bar]	
		M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	0.5	0.5
												0.5	0.5
											
												7	12
Individual devices													
Pressure regulators LRB/LRBS		Micro	—										
		Mini	—	—	—	■	—	—	—	—	—	■	■
		Midi	—	—	—	—	■	—	—	—	—	■	■
		Maxi	—										
Pressure regulator combinations LRB-K		Micro	—										
		Mini	—	—	—	■	■	—	—	—	—	■	■
		Midi	—	—	—	—	■	■	—	—	—	■	■
		Maxi	—										
Lubricators LOE		Micro	■	■	■	—	—	—	—	■	■	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves HE		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, electrical HEE		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, pneumatic HEP		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Soft-start valves HEL		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Membrane air dryers LDM1		Micro	—										
		Mini	—										
		Midi	—										
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Branching modules FRM		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Distributor block FRZ		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	—	—	—	—	—	—

Pressure regulators LR/LRS/LRB/LRBS, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Bowl guard		Pressure indication		Actuator lock		Supply voltage			Options		➔ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 VAC	230 VAC	Non-return function	Pressure switch	
Individual devices													
Pressure regulators LRB/LRBS	Micro	–											20
	Mini	–	–	–	■	■	■	–	–	–	–	–	
	Midi	–	–	–	■	■	■	–	–	–	–	–	
	Maxi	–	–										
Pressure regulator combinations LRB-K	Micro	–											28
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–										
Lubricators LOE	Micro	–	■	–	■	–	–	–	–	–	–	–	loe
	Mini	■	–	–	■	–	–	–	–	–	–	–	
	Midi	■	–	–	■	–	–	–	–	–	–	–	
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
On-off valves HE	Micro	–											he
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–	–	■	■	–	–	–	–	–	–	
On-off valves, electrical HEE	Micro	–											hee
	Mini	–	–	–	■	–	–	■	■	■	–	–	
	Midi	–	–	–	■	–	–	■	■	■	–	–	
	Maxi	–	–	–	■	–	–	■	■	■	–	–	
On-off valves, pneumatic HEP	Micro	–											hep
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Soft-start valves HEL	Micro	–											hel
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Membrane air dryers LDM1	Micro	–											ldm1
	Mini	–											
	Midi	–											
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
Branching modules FRM	Micro	–											frm
	Mini	–	–	–	■	–	–	–	–	–	■	■	
	Midi	–	–	–	■	–	–	–	–	–	■	■	
	Maxi	–	–	–	■	–	–	–	–	–	■	■	
Distributor block FRZ	Micro	–	–	–	■	–	–	–	–	–	–	–	frz
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	

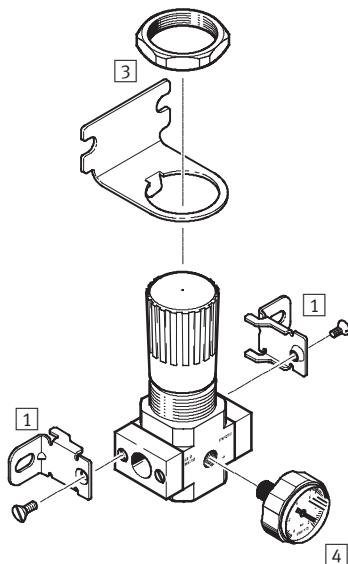
Pressure regulators LR/LRS, D series, metal design

Peripherals overview

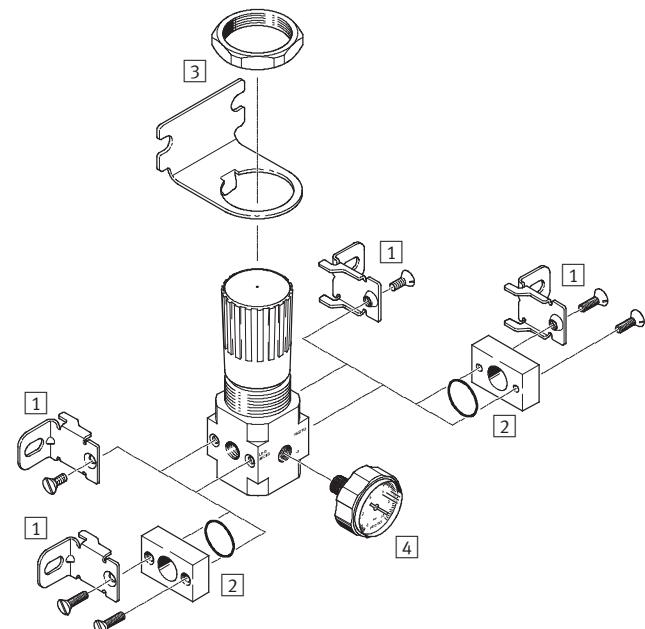
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Micro

Individual unit with connection plates,
connection size G1/8, QS4 or QS6



Individual unit without connection plates, for service unit combination
connection size M5 or M7 in housing



Mounting attachments and accessories

	Individual unit		Combination		➔ Page/ Internet
	with connection plates	without connection plates	with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	■	■	■	hfoe-d
[2] Connecting plate kit PBL	-	■	-	■	pbl
[3] Mounting bracket HRS	■	■	■	■	hrs-d
[4] Pressure gauge MA-27	■	■	■	■	52

Pressure regulators LR/LRS, D series, metal design

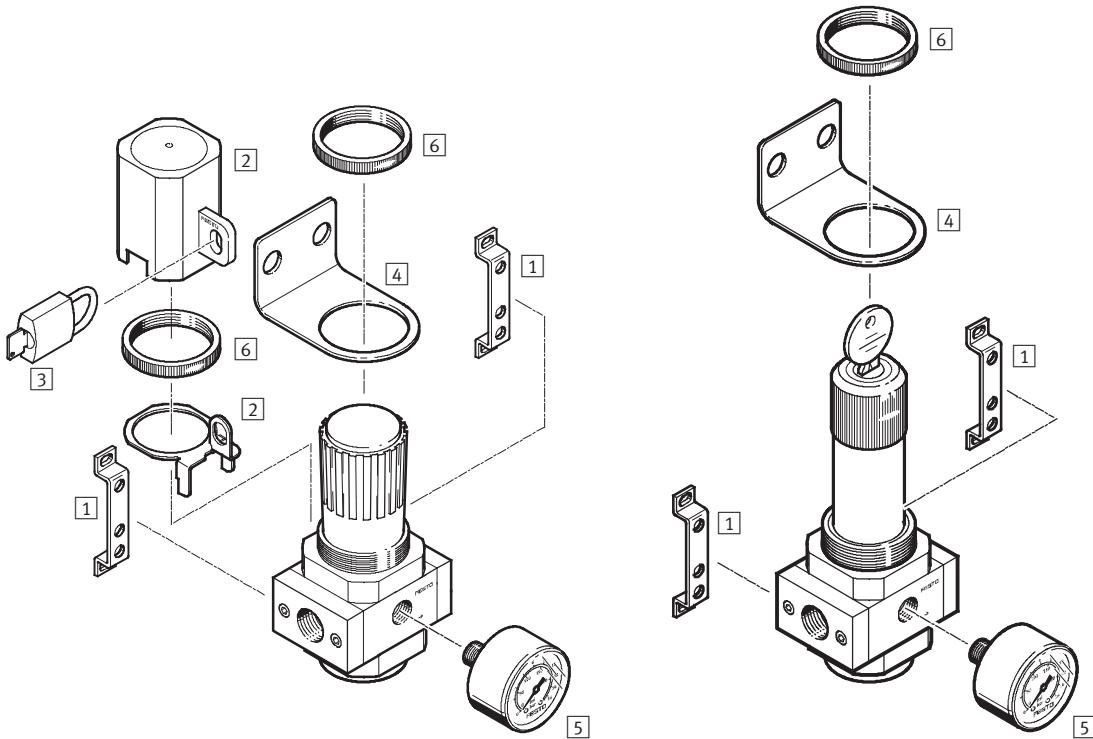
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Peripherals overview

Mini/Midi/Maxi

Pressure regulator LR

Pressure regulator LRS, lockable



Mounting attachments and accessories

	Rotary knob with detent	Rotary knob, lockable	➔ Page/ Internet
[1] Mounting bracket HFOE	■	■	hfoe-d
[2] Regulator lock LRVS	■	-	lrvs-d
[3] Padlock LRVS-D	■	-	lrvs-d
[4] Mounting bracket HR-D	■	■	hr-d
[5] Pressure gauge MA	■	■	52
[6] Knurled nut (included in scope of delivery) HMR	■	■	-

Pressure regulators LR/LRS, D series, metal design

Type codes

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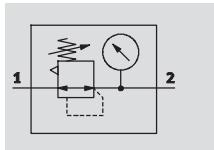
LR	-	1/2	-	D	-	7	-	0	-	DI	-	MAXI
Basic function												
LR	Pressure regulator											
LRS	Pressure regulator, lockable											
Pneumatic connection												
M5	Thread M5											
M7	Thread M7											
QS4	Push-in fitting QS4											
QS6	Push-in fitting QS6											
1/8	Thread G1/8											
1/4	Thread G1/4											
3/8	Thread G3/8											
1/2	Thread G1/2											
3/4	Thread G3/4											
1	Thread G1											
Series												
D	Series											
Pressure regulation range												
	0.5 ... 12 bar											
7	0.5 ... 7 bar											
Pressure gauge												
	With pressure gauge											
0	Without pressure gauge											
Functions												
I	With integrated return flow function											
DI	Directly actuated pressure regulator with integrated return flow function (MAXI units only)											
Size												
MICRO	Grid dimension 25 mm (without connecting plates)											
MINI	Grid dimension 40 mm (without connecting plates)											
MIDI	Grid dimension 55 mm (without connecting plates)											
MAXI	Grid dimension 66 mm (without connecting plates)											

Pressure regulators LR/LRS, D series, metal design

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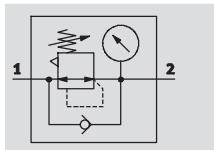
Technical data

LR/LRS-...-MICRO/MINI/MIDI
with pressure gauge



Flow rate
120 ... 12,500 l/min

LR/LRS-...-I-MINI/MIDI,
LR/LRS-...-MAXI
with pressure gauge



Temperature range
-10 ... +60 °C
Pressure
1 ... 16 bar



- Also suitable for front panel mounting
- Two pressure gauge connections for different fitting options
- Good regulating characteristics with minimal pressure hysteresis
- High flow rate
- Two pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar
- Setting values are secured by locking the rotary knob
- Return flow option for venting from output 2 to input 1
- Pressure sensor (optional) → 52

General technical data

Size	Micro	Mini	Midi	Maxi
Pneumatic connection	M5 M7 G1/8 QS4 QS6	G1/8 G1/4 G3/8	G1/4 G3/8 G1/2 G3/4	G1/2 G3/4 G1
Constructional design	Directly actuated diaphragm regulator	Directly actuated diaphragm regulator	Pilot actuated piston regulator	Directly actuated diaphragm regulator LR/LRS-...-DI
Regulating function	With secondary venting	Output pressure constant, with secondary venting, with primary pressure compensation, with return flow action ¹⁾	Output pressure constant, with secondary venting, with primary pressure compensation ²⁾ , with return flow action ²⁾	
Type of mounting	Via accessories In-line installation Front panel mounting			
Assembly position	Any			
Regulator lock	Rotary knob with detent —	Rotary knob with integrated lock		
Pressure regulation range [bar]	0.5 ... 7	0.5 ... 7 0.5 ... 12		
Max. hysteresis [bar]	0.3	0.2	0.4	
Pressure indication	Via pressure gauge M5 prepared	G1/8 prepared	G1/4 prepared	G1/4 prepared

1) For the LR/LRS-...-I.

2) For the LR/LRS-...-DI.

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulators LR/LRS, D series, metal design

Technical data

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Standard nominal flow rate ¹⁾ q _N [l/min]						
Connection	Female thread		Connecting plate			
	M5	M7	G ¹ / ₈	QS4	QS6	
Micro						
Pressure regulation range 0.5 ... 7 bar	120	300	450	160	450	

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

Standard nominal flow rate ¹⁾ q _N [l/min]						
Connection	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	G1
Mini						
Pressure regulation range	0.5 ... 7 bar	1,000	1,600	1,800	–	–
	0.5 ... 12 bar	800	1,500	1,700	–	–
Midi						
Pressure regulation range	0.5 ... 7 bar	–	2,200	3,300	4,000	4,500
	0.5 ... 12 bar	–	2,100	3,200	3,500	3,500
Maxi						
Pressure regulation range	0.5 ... 7 bar	–	–	–	10,700 (7,300) ²⁾	12,000 (8,350) ²⁾
	0.5 ... 12 bar	–	–	–	10,500 (5,400) ²⁾	11,000 (6,800) ²⁾
						12,500 (8,400) ²⁾
						11,500 (7,000) ²⁾

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

2) For the LR/LRS-...-DI.

Operating and environmental conditions					
Size	Micro	Mini	Midi	Maxi	
Operating pressure [bar]	1 ... 10	1 ... 16			
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [-:-:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
	–	Inert gases			
Note on operating/pilot medium	–	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature [°C]	-10 ... +60				
Temperature of medium [°C]	-10 ... +60				
Storage temperature [°C]	-10 ... +60				
Corrosion resistance class CRC ¹⁾	2				
Certification	Germanischer Lloyd				

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

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]					
Size	Micro	Mini	Midi	Maxi	
	Female thread	Connecting plate			
With pressure gauge					
LR	90	110	350	720	1,200 (1,400) ¹⁾
LRS	–	–	520	1,250	1,290 (1,680) ¹⁾
Without pressure gauge					
LR	80	100	300	660	1,100 (1,330) ¹⁾
LRS	–	–	470	1,180	1,215 (1,610) ¹⁾

1) For the LR/LRS-...-DI.

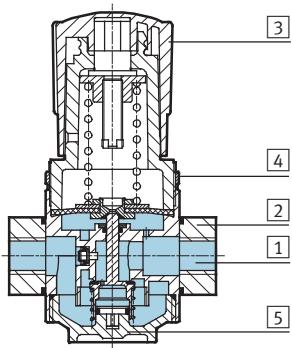
Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Materials

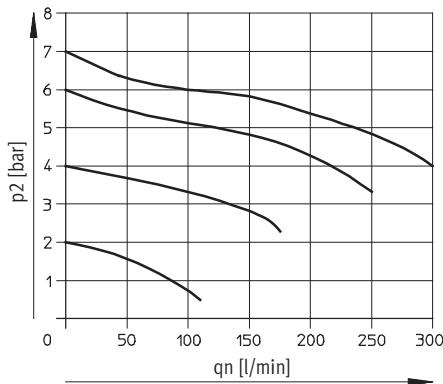
Sectional view



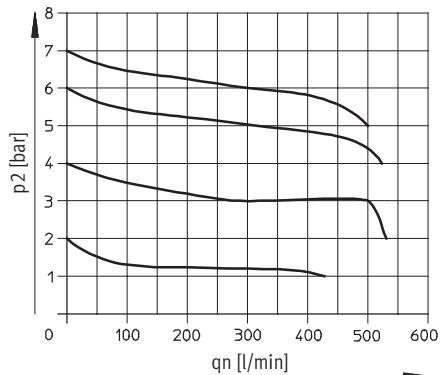
Pressure regulator	Micro	Mini/Midi/Maxi
[1] Housing	Die-cast zinc	Die-cast zinc/aluminium
[2] Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
[3] Regulating knob	POM	PA
[4] Knurled nut	–	Aluminium
[5] Plug cap	PC	PC
– Seals	NBR	NBR
Note on materials	–	RoHS-compliant
	–	Free of copper and PTFE → Ordering data

Standard flow rate q_n as a function of the output pressure p_2

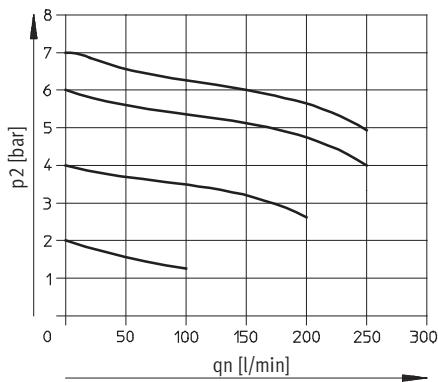
LR-M5-...-MICRO



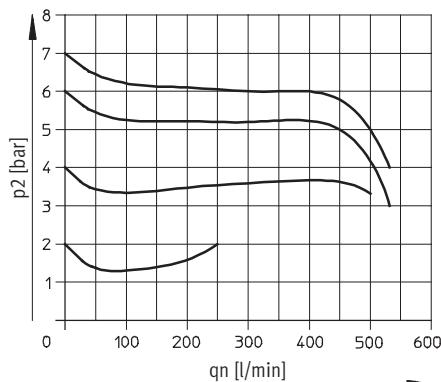
LR-M7-...-MICRO B



LR-QS4-...-MICRO



LR-QS6-...-MICRO and LR-1/8-...-MICRO



Primary pressure $p_1 = 10$ bar

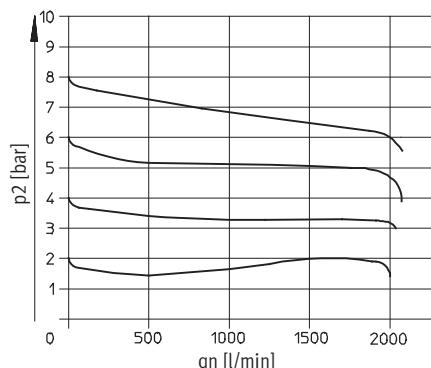
Pressure regulators LR/LRS, D series, metal design

Technical data

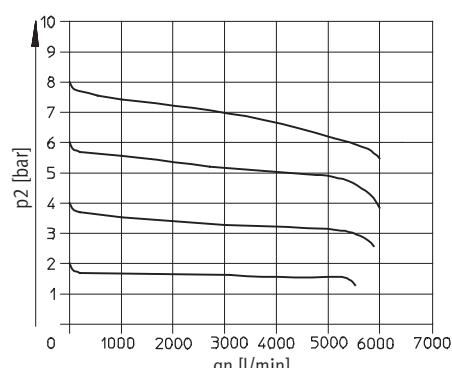
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Standard flow rate q_n as a function of the output pressure p_2

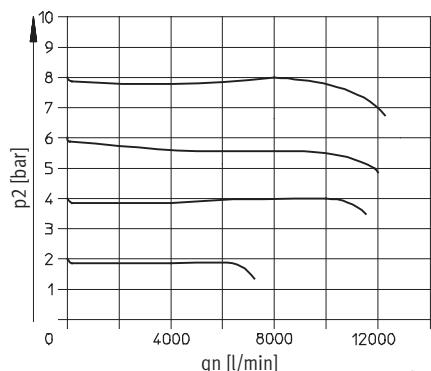
LR/LRS-1/4-D-MINI



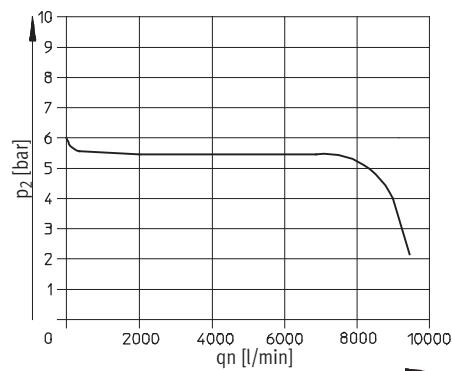
LR/LRS-1/2-D-MIDI



LR/LRS-1-D-MAXI



LR/LRS-1-D-DI-MAXI



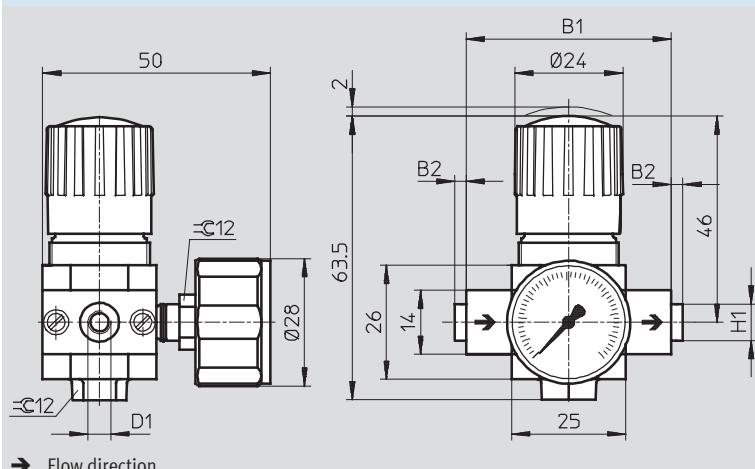
Primary pressure $p_1 = 10$ bar

Note

In order to improve control behaviour, primary-pressure dependent internal air consumption is provided on the LR/LRS-...-MAXI.

Dimensions

Micro



Download CAD Data ➔ www.festo.com/us/cad

Type	B1	B2	D1	H1
------	----	----	----	----

Micro				
LR-M5-D-7-MICRO	25	-	M5	-
LR-M7-D-7-MICRO B			M7	-
LR-1/8-D-7-MICRO	45	~2.5	G ¹ / ₈	-
LR-QS4-D-7-MICRO			QS4	~8
LR-QS6-D-7-MICRO			QS6	~10

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulators LR/LRS, D series, metal design

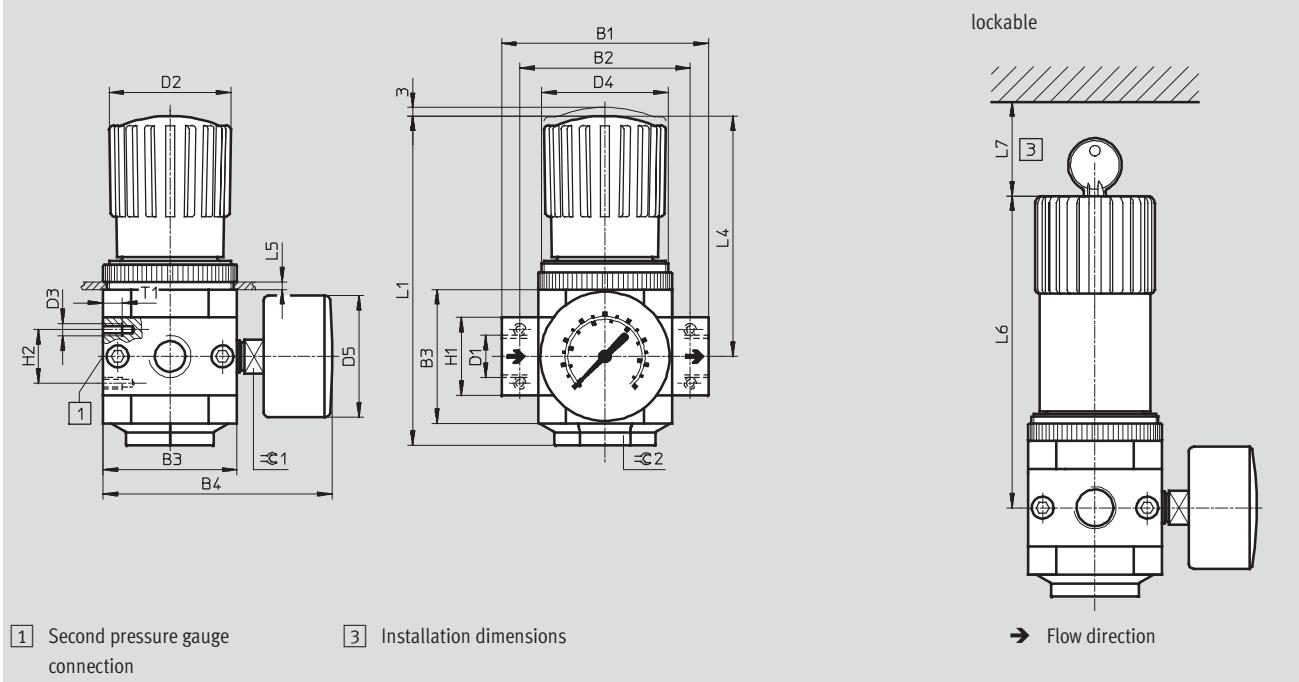
Technical data

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Dimensions

Mini/Midi/Maxi

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[1] Second pressure gauge connection

[3] Installation dimensions

➔ Flow direction

Type	B1	B2	B3	B4	D1	D2	D3	D4	D5
Mini									
LR/LRS-1/8-D-(I)-MINI	64				G ₁ /8				
LR/LRS-1/4-D-(I)-MINI		52		40	G ₁ /4				
LR/LRS-3/8-D-(I)-MINI	70				G ₃ /8	31	M4	M36x1.5	41
Midi									
LR/LRS-1/4-D-(I)-MIDI					G ₁ /4				
LR/LRS-3/8-D-(I)-MIDI					G ₃ /8				
LR/LRS-1/2-D-(I)-MIDI					G ₁ /2				
LR/LRS-3/4-D-(I)-MIDI					G ₃ /4				
Maxi									
LR/LRS-1/2-D-MAXI					G ₁ /2	31		M36x1.5	
LR/LRS-1/2-D-DI-MAXI						49		M52x1.5	
LR/LRS-3/4-D-MAXI					G ₃ /4	31		M36x1.5	
LR/LRS-3/4-D-DI-MAXI						49		M52x1.5	
LR/LRS-1-D-MAXI					G1	31		M36x1.5	
LR/LRS-1-D-DI-MAXI						49		M52x1.5	

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulators LR/LRS, D series, metal design

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Technical data

Type	H1	H2	L1	L4	L5 max.	L6	L7	T1	=C 1	=C 2
Mini										
LR/LRS-1/8-D-MINI										
LR/LRS-1/4-D-MINI	20	11	96	68	3	98	60	7	14	17
LR/LRS-3/8-D-MINI										
Midi										
LR/LRS-1/4-D-MIDI										
LR/LRS-3/8-D-MIDI	32	22	135	99	5	130	60	8	14	36
LR/LRS-1/2-D-MIDI										
LR/LRS-3/4-D-MIDI										
Maxi										
LR/LRS-1/2-D-MAXI										
LR/LRS-1/2-D-DI-MAXI	32	22	125	82		111				
LR/LRS-3/4-D-MAXI			148	105		135				
LR/LRS-3/4-D-DI-MAXI			125	82		111				
LR/LRS-1-D-MAXI	40	22	148	105	4	135	60	8	14	22
LR/LRS-1-D-DI-MAXI			125	82		111				
			148	105		135				

Pressure regulators LR/LRS, D series, metal design

Technical data

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Ordering data			
Size	Connection	Pressure regulation range 0.5 ... 7 bar	
		Part No.	Type
With pressure gauge			
Micro	Without threaded connecting plates, connecting thread in housing		
	M5	526261	LR-M5-D-7-MICRO
	M7	534180	LR-M7-D-7-MICRO-B
	With threaded connecting plates		
	G1/8	526263	LR-1/8-D-7-MICRO
	With connecting plate and push-in fitting		
	QS4	526269	LR-QS4-D-7-MICRO
	QS6	526271	LR-QS6-D-7-MICRO
Without pressure gauge			
Micro	Without threaded connecting plates, connecting thread in housing		
	M5	526262	LR-M5-D-0-7-MICRO
	M7	534181	LR-M7-D-0-7-MICRO-B
	With threaded connecting plates		
	G1/8	526264	LR-1/8-D-0-7-MICRO
	With connecting plate and push-in fitting		
	QS4	526270	LR-QS4-D-0-7-MICRO
	QS6	526272	LR-QS6-D-0-7-MICRO

Ordering data			
Size	Connection	Pressure regulation range 0.5 ... 7 bar	Pressure regulation range 0.5 ... 12 bar
		Part No.	Type
With pressure gauge			
Mini	G1/8	162582	LR-1/8-D-7-MINI
	G1/4	162583	LR-1/4-D-7-MINI
	G3/8	162584	LR-3/8-D-7-MINI
Midi	G1/4	186453	LR-1/4-D-7-MIDI
	G3/8	162585	LR-3/8-D-7-MIDI
	G1/2	162586	LR-1/2-D-7-MIDI
	G3/4	162587	LR-3/4-D-7-MIDI
Maxi	G1/2	186457	LR-1/2-D-7-MAXI
	G3/4	162588	LR-3/4-D-7-MAXI
	G1	162589	LR-1-D-7-MAXI
Without pressure gauge			
Mini	G1/8	162598	LR-1/8-D-7-O-MINI ¹⁾
	G1/4	162599	LR-1/4-D-7-O-MINI ¹⁾
	G3/8	162600	LR-3/8-D-7-O-MINI ¹⁾
Midi	G1/4	186454	LR-1/4-D-7-O-MIDI ¹⁾
	G3/8	162601	LR-3/8-D-7-O-MIDI ¹⁾
	G1/2	162602	LR-1/2-D-7-O-MIDI ¹⁾
	G3/4	162603	LR-3/4-D-7-O-MIDI ¹⁾
Maxi	G1/2	186458	LR-1/2-D-7-O-MAXI ¹⁾
	G3/4	162604	LR-3/4-D-7-O-MAXI ¹⁾
	G1	162605	LR-1-D-7-O-MAXI ¹⁾

1) Free of copper and PTFE

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Ordering data

With integrated return flow function

Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar	
		Part No.	Type	Part No.	Type
With pressure gauge					
Mini	G ¹ / ₈	192299	LR-1/8-D-7-I-MINI	192298	LR-1/8-D-I-MINI
	G ¹ / ₄	192301	LR-1/4-D-7-I-MINI	192300	LR-1/4-D-I-MINI
	G ³ / ₈	192303	LR-3/8-D-7-I-MINI	192302	LR-3/8-D-I-MINI
Midi	G ¹ / ₄	192311	LR-1/4-D-7-I-MIDI	192310	LR-1/4-D-I-MIDI
	G ³ / ₈	192313	LR-3/8-D-7-I-MIDI	192312	LR-3/8-D-I-MIDI
	G ¹ / ₂	192315	LR-1/2-D-7-I-MIDI	192314	LR-1/2-D-I-MIDI
	G ³ / ₄	192317	LR-3/4-D-7-I-MIDI	192316	LR-3/4-D-I-MIDI
Without pressure gauge					
Mini	G ¹ / ₈	192305	LR-1/8-D-7-O-I-MINI ¹⁾	192304	LR-1/8-D-O-I-MINI ¹⁾
	G ¹ / ₄	192307	LR-1/4-D-7-O-I-MINI ¹⁾	192306	LR-1/4-D-O-I-MINI ¹⁾
	G ³ / ₈	192309	LR-3/8-D-7-O-I-MINI ¹⁾	192308	LR-3/8-D-O-I-MINI ¹⁾
Midi	G ¹ / ₄	192319	LR-1/4-D-7-O-I-MIDI ¹⁾	192318	LR-1/4-D-O-I-MIDI ¹⁾
	G ³ / ₈	192321	LR-3/8-D-7-O-I-MIDI ¹⁾	192320	LR-3/8-D-O-I-MIDI ¹⁾
	G ¹ / ₂	192323	LR-1/2-D-7-O-I-MIDI ¹⁾	192322	LR-1/2-D-O-I-MIDI ¹⁾
	G ³ / ₄	192325	LR-3/4-D-7-O-I-MIDI ¹⁾	192324	LR-3/4-D-O-I-MIDI ¹⁾

1) Free of copper and PTFE

Ordering data

Directly actuated pressure regulator with integrated return flow function

Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar	
		Part No.	Type	Part No.	Type
With pressure gauge					
Maxi	G ¹ / ₂	192358	LR-1/2-D-7-DI-MAXI	192356	LR-1/2-D-DI-MAXI
	G ³ / ₄	192362	LR-3/4-D-7-DI-MAXI	192360	LR-3/4-D-DI-MAXI
	G1	192366	LR-1-D-7-DI-MAXI	192364	LR-1-D-DI-MAXI
Without pressure gauge					
Maxi	G ¹ / ₂	192359	LR-1/2-D-7-O-DI-MAXI ¹⁾	192357	LR-1/2-D-O-DI-MAXI ¹⁾
	G ³ / ₄	192363	LR-3/4-D-7-O-DI-MAXI ¹⁾	192361	LR-3/4-D-O-DI-MAXI ¹⁾
	G1	192367	LR-1-D-7-O-DI-MAXI ¹⁾	192365	LR-1-D-O-DI-MAXI ¹⁾

1) Free of copper and PTFE

Pressure regulators LR/LRS, D series, metal design

Technical data

FESTO

Ordering data				
Rotary knob with integrated lock				
Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar
		Part No.	Type	
With pressure gauge				
Mini	G1/8	194606	LRS-1/8-D-7-MINI	194602 LRS-1/8-D-MINI
	G1/4	194614	LRS-1/4-D-7-MINI	194610 LRS-1/4-D-MINI
	G3/8	194622	LRS-3/8-D-7-MINI	194618 LRS-3/8-D-MINI
Midi	G1/4	194630	LRS-1/4-D-7-MIDI	194626 LRS-1/4-D-MIDI
	G3/8	194638	LRS-3/8-D-7-MIDI	194634 LRS-3/8-D-MIDI
	G1/2	194646	LRS-1/2-D-7-MIDI	194642 LRS-1/2-D-MIDI
	G3/4	194656	LRS-3/4-D-7-MIDI	194650 LRS-3/4-D-MIDI
Maxi	G1/2	194660	LRS-1/2-D-7-MAXI	194658 LRS-1/2-D-MAXI
	G3/4	194662	LRS-3/4-D-7-MAXI	194664 LRS-3/4-D-MAXI
	G1	194668	LRS-1-D-7-MAXI	194666 LRS-1-D-MAXI
Without pressure gauge				
Mini	G1/8	194608	LRS-1/8-D-7-O-MINI	194604 LRS-1/8-D-O-MINI
	G1/4	194616	LRS-1/4-D-7-O-MINI	194612 LRS-1/4-D-O-MINI
	G3/8	194624	LRS-3/8-D-7-O-MINI	194620 LRS-3/8-D-O-MINI
Midi	G1/4	194632	LRS-1/4-D-7-O-MIDI	194628 LRS-1/4-D-O-MIDI
	G3/8	194640	LRS-3/8-D-7-O-MIDI	194636 LRS-3/8-D-O-MIDI
	G1/2	194648	LRS-1/2-D-7-O-MIDI	194644 LRS-1/2-D-O-MIDI
	G3/4	194654	LRS-3/4-D-7-O-MIDI	194652 LRS-3/4-D-O-MIDI
Maxi	G1/2	194661	LRS-1/2-D-7-O-MAXI	194659 LRS-1/2-D-O-MAXI
	G3/4	194663	LRS-3/4-D-7-O-MAXI	194665 LRS-3/4-D-O-MAXI
	G1	194669	LRS-1-D-7-O-MAXI	194667 LRS-1-D-O-MAXI
Ordering data				
With integrated return flow function, rotary knob with integrated lock				
Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar
		Part No.	Type	
With pressure gauge				
Mini	G1/8	194607	LRS-1/8-D-7-I-MINI	194603 LRS-1/8-D-I-MINI
	G1/4	194615	LRS-1/4-D-7-I-MINI	194611 LRS-1/4-D-I-MINI
	G3/8	194623	LRS-3/8-D-7-I-MINI	194619 LRS-3/8-D-I-MINI
Midi	G1/4	194631	LRS-1/4-D-7-I-MIDI	194627 LRS-1/4-D-I-MIDI
	G3/8	194639	LRS-3/8-D-7-I-MIDI	194635 LRS-3/8-D-I-MIDI
	G1/2	194647	LRS-1/2-D-7-I-MIDI	194643 LRS-1/2-D-I-MIDI
	G3/4	194657	LRS-3/4-D-7-I-MIDI	194651 LRS-3/4-D-I-MIDI
Without pressure gauge				
Mini	G1/8	194609	LRS-1/8-D-7-O-I-MINI	194605 LRS-1/8-D-O-I-MINI
	G1/4	194617	LRS-1/4-D-7-O-I-MINI	194613 LRS-1/4-D-O-I-MINI
	G3/8	194625	LRS-3/8-D-7-O-I-MINI	194621 LRS-3/8-D-O-I-MINI
Midi	G1/4	194633	LRS-1/4-D-7-O-I-MIDI	194629 LRS-1/4-D-O-I-MIDI
	G3/8	194641	LRS-3/8-D-7-O-I-MIDI	194637 LRS-3/8-D-O-I-MIDI
	G1/2	194649	LRS-1/2-D-7-O-I-MIDI	194645 LRS-1/2-D-O-I-MIDI
	G3/4	194655	LRS-3/4-D-7-O-I-MIDI	194653 LRS-3/4-D-O-I-MIDI

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Ordering data

Directly actuated pressure regulator with integrated return flow function, rotary knob with integrated lock

Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar	
		Part No.	Type	Part No.	Type
With pressure gauge					
Maxi	G ¹ / ₂	194672	LRS-1 ¹ / ₂ -D-7-DI-MAXI	194670	LRS-1 ¹ / ₂ -D-DI-MAXI
	G ³ / ₄	194676	LRS-3 ¹ / ₄ -D-7-DI-MAXI	194674	LRS-3 ¹ / ₄ -D-DI-MAXI
	G1	194680	LRS-1-D-7-DI-MAXI	194678	LRS-1-D-DI-MAXI
Without pressure gauge					
Maxi	G ¹ / ₂	194673	LRS-1 ¹ / ₂ -D-7-O-DI-MAXI	194671	LRS-1 ¹ / ₂ -D-O-DI-MAXI
	G ³ / ₄	194677	LRS-3 ¹ / ₄ -D-7-O-DI-MAXI	194675	LRS-3 ¹ / ₄ -D-O-DI-MAXI
	G1	194681	LRS-1-D-7-O-DI-MAXI	194679	LRS-1-D-O-DI-MAXI

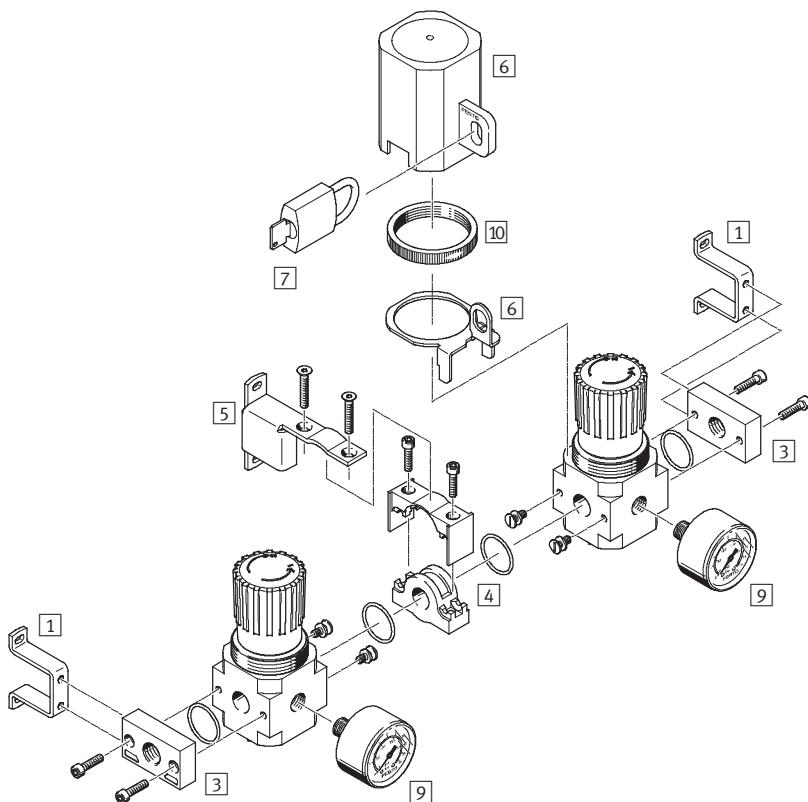
Pressure regulators LRB/LRBS, D series, metal design

Peripherals overview

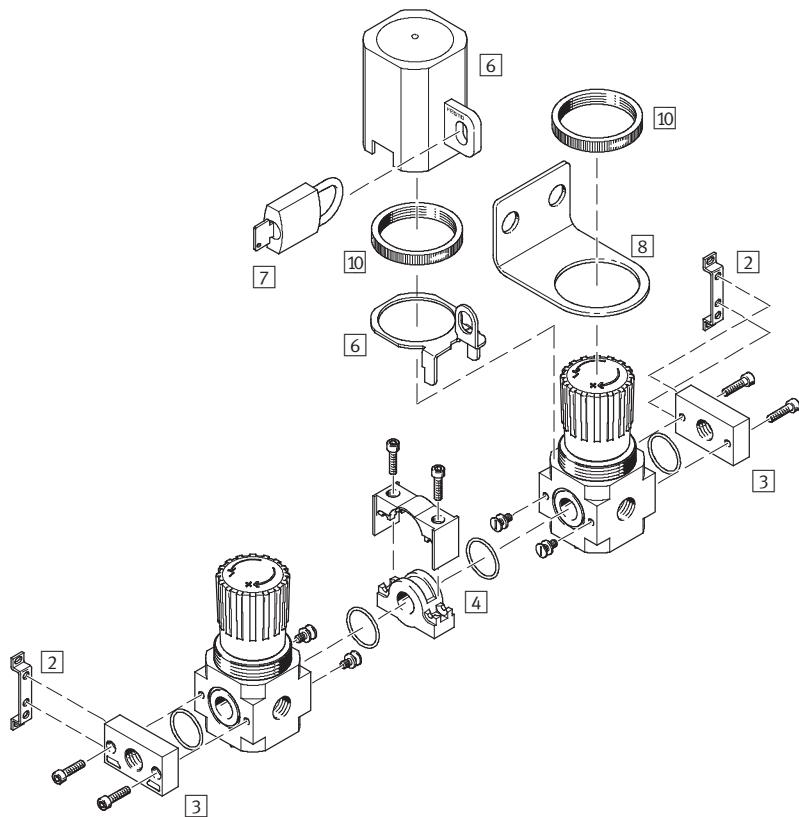
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Mini/Midi

Pressure regulator LRB – pressure output at rear



Pressure regulator LRB – pressure output at front



Pressure regulators LRB/LRBS, D series, metal design

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Peripherals overview

Mounting attachments and accessories			
Pressure regulator LRB	Pressure output at rear	Pressure output at front	➔ Page/ Internet
[1] Mounting bracket HRB	■	-	hrb-d
[2] Mounting bracket HFOE	-	■	hfoe-d
[3] Connection plates LRBAS	■	■	lrbas
[4] Adapter kit HRBC	■	■	hrbc-d
[5] Mounting bracket HRBK	■ ¹⁾	-	hrbk-d
[6] Regulator lock LRVS	■	■	lrvs-d
[7] Padlock LRVS-D	■	■	lrvs-d
[8] Mounting bracket HR-D	-	■	hr-d
[9] Pressure gauge MA	■	-	52
[10] Knurled nut (included in scope of delivery) HMR	■	■	-

1) The mounting bracket must be mounted after every second pressure regulator.

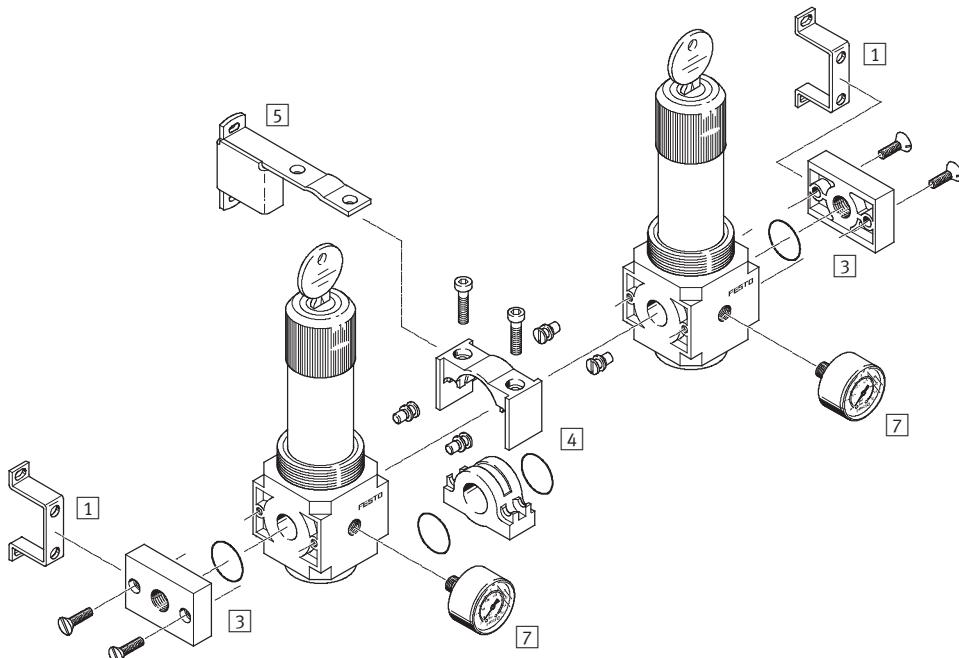
Pressure regulators LRB/LRBS, D series, metal design

Peripherals overview

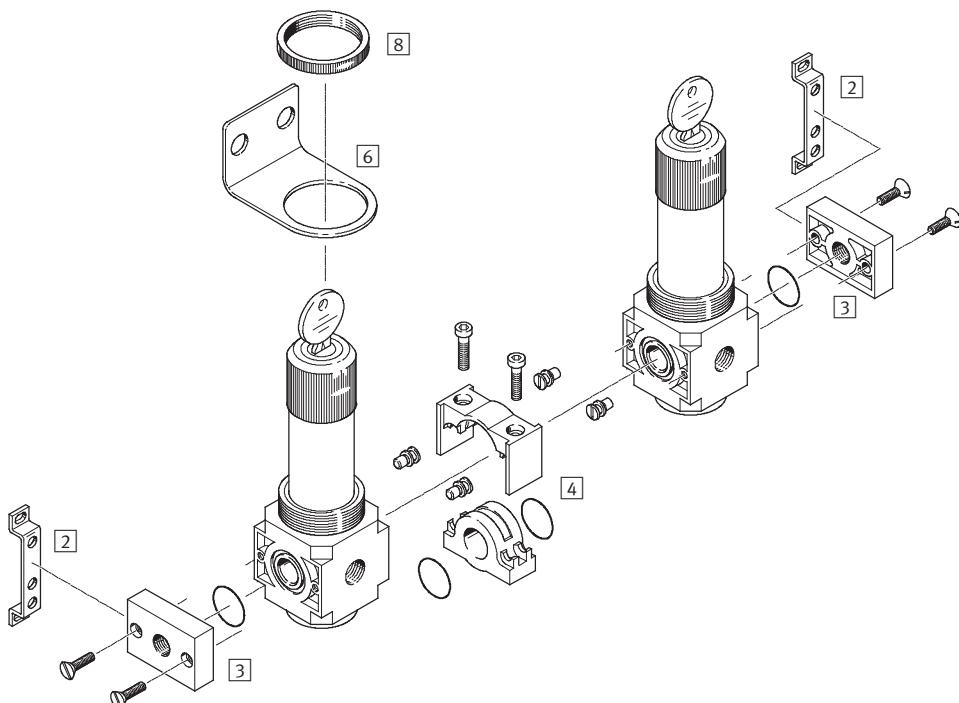
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Mini/Midi

Pressure regulator LRBS lockable – pressure output at rear



Pressure regulator LRBS lockable – pressure output at front



Pressure regulators LRB/LRBS, D series, metal design

FESTO

Peripherals overview

Mounting attachments and accessories			
Pressure regulator LRBS, lockable	Pressure output at rear	Pressure output at front	➔ Page/ Internet
[1] Mounting bracket HRB	■	-	hrb-d
[2] Mounting bracket HFOE	-	■	hfoe-d
[3] Connection plates LRBAS	■	■	lrbas
[4] Adapter kit HRBC	■	■	hrbc-d
[5] Mounting bracket HRBK	■ ¹⁾	-	hrbk-d
[6] Mounting bracket HR-D	-	■	hr-d
[7] Pressure gauge MA	■	-	52
[8] Knurled nut (included in scope of delivery) HMR	■	■	-

1) The mounting bracket must be mounted after every second pressure regulator.

Pressure regulators LRB/LRBS, D series, metal design

FESTO

Type codes

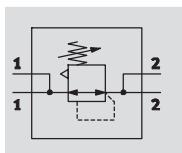
LRB	D	7	0	MINI
Basic function				
LRB	Pressure regulator for manifold assembly			
LRBS	Pressure regulator for manifold assembly, lockable			
Series				
D	Series			
Pressure regulation range				
	0.5 ... 12 bar			
7	0.5 ... 7 bar			
Pressure gauge				
0	Without pressure gauge			
Size				
MINI	Grid dimension 40 mm (without connecting plates)			
MIDI	Grid dimension 55 mm (without connecting plates)			

Pressure regulators LRB/LRBS, D series, metal design

FESTO

Technical data

Function



Flow rate

1,600 ... 3,800 l/min

Temperature range

-10 ... +60 °C

Pressure

1 ... 16 bar



The pressure regulator is suitable for manifold assemblies with through air supply on both sides, for configuring a regulator manifold with separate, independent pressure ranges. Pressure output is at the front or rear.

- Good control characteristics with low hysteresis and primary pressure compensation
- Manifold assembly with through air supply
- For configuring a regulator manifold with independent pressure ranges

- Two pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar
- Settings secured via detent on knob and push-in adjustment lock

General technical data

Size	Mini		Midi	
Pneumatic connection 1 ¹⁾	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{3}{8}$	G $\frac{1}{2}$
Pneumatic connection 2	G $\frac{1}{4}$		G $\frac{3}{8}$	
Constructional design	Directly actuated diaphragm regulator with through pressure supply			
Regulating function	Output pressure constant, with secondary venting, with primary pressure compensation			
Type of mounting	Via accessories In-line installation			
Assembly position	Any			
Regulator lock	Rotary knob with detent Rotary knob with integrated lock			
Pressure regulation range [bar]	0.5 ... 7		0.5 ... 12	
Max. hysteresis [bar]	0.2			
Pressure indication	G $\frac{1}{8}$ prepared		G $\frac{1}{4}$ prepared	

1) Dependent on connecting plate selected, must be ordered separately as an accessory → Internet: lrbas

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate¹⁾ qN [l/min]

Size	Mini		Midi	
Pressure regulation range	0.5 ... 7 bar	1,800	3,800	
	0.5 ... 12 bar	1,600	3,200	

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

Operating and environmental conditions

Operating pressure [bar]	1 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Ambient temperature [°C]	-10 ... +60
Temperature of medium [°C]	-10 ... +60
Storage temperature [°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾	2

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

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

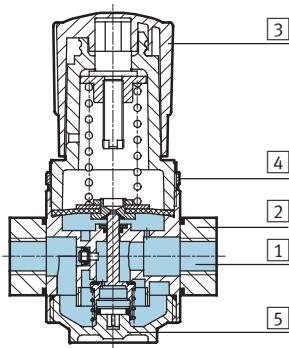
Pressure regulators LRB/LRBS, D series, metal design

Technical data

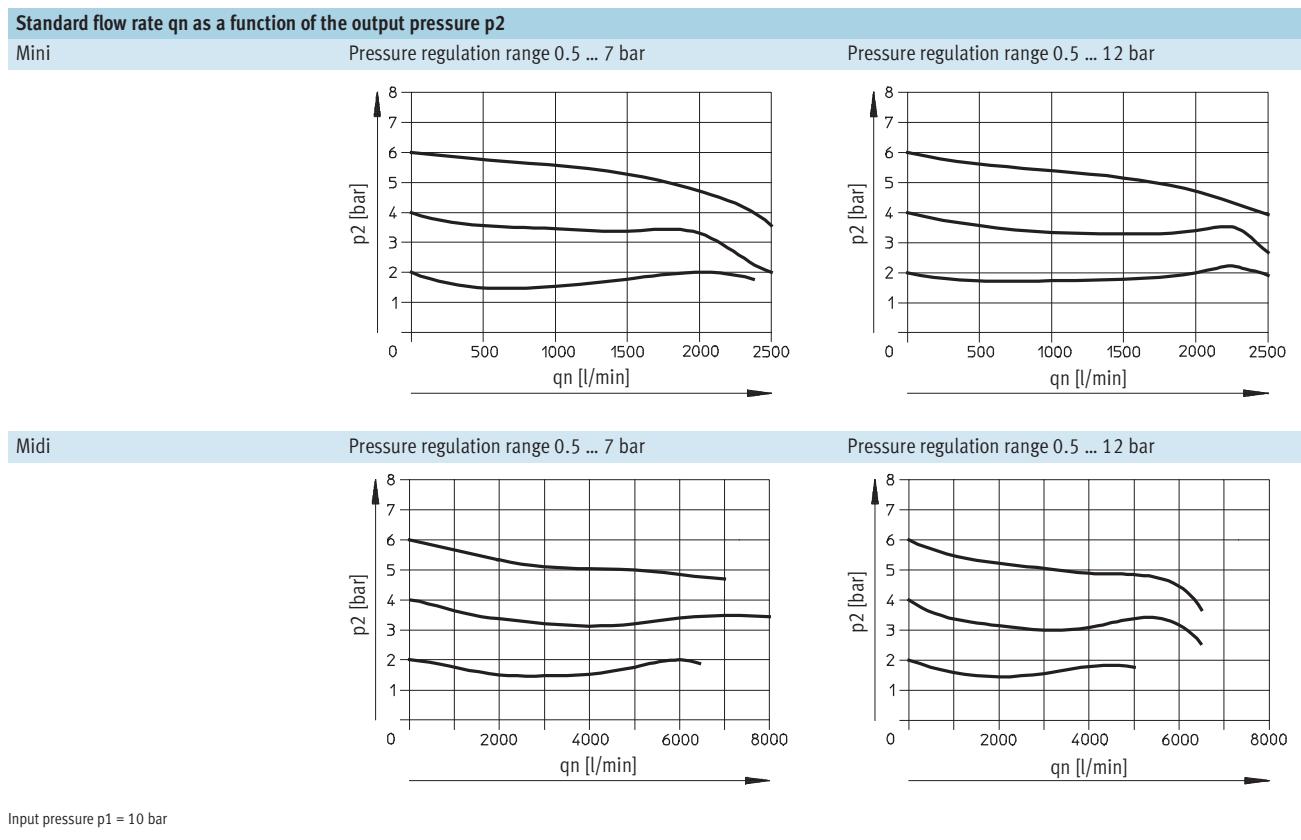
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Weight [g]		
Size	Mini	Midi
LRB	250	700
LRBS	350	940

Materials
Sectional view



Pressure regulator	
[1] Housing	Die-cast zinc
[2] Connecting plates	Die-cast zinc
[3] Regulating knob	PA
[4] Knurled nut	Aluminium
[5] Plug cap	PC
- Seals	NBR
Note on materials	Free of copper and PTFE



Pressure regulators LRB/LRBS, D series, metal design

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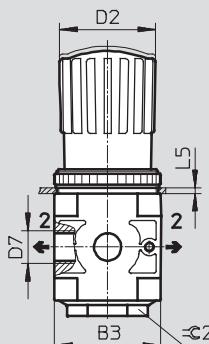
Technical data

Dimensions

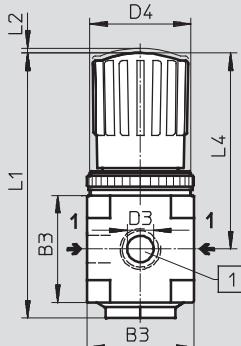
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LRB

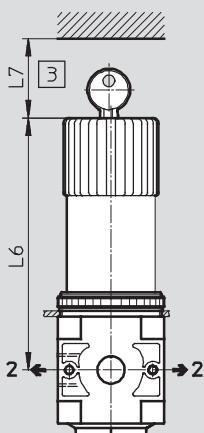
LRBS



[1] Pressure gauge connection



[3] Installation dimensions



➔ Flow direction,
Input pressure p1 from both
directions possible

Type	B3	D2	D3	D4	D7	L1	L2	L4	L5 max.	L6	L7 min.	=C 2
Mini												
LRB-D-...-MINI	40	31	G ¹ / ₈	M36x1.5	G ¹ / ₄	~95.4	3	~68.9	3	98	60	17
LRBS-D-...-MINI												
Midi												
LRB-D-...-MIDI	55	49.3	G ¹ / ₄	M52x1.5	G ³ / ₈	~135.8	3	~100.3	5	129.2	60	36
LRBS-D-...-MIDI												

Note: This product conforms to ISO 1179-1 and ISO 228-1

Ordering data

Pressure regulator for manifold assembly

Size	Pressure regulation range 0.5 ... 7 bar			Pressure regulation range 0.5 ... 12 bar		
	Part No.	Type	Part No.	Type		
Rotary knob with detent						
Mini	197534	LRB-D-7-O-MINI	197535	LRB-D-O-MINI		
Midi	197538	LRB-D-7-O-MIDI	197539	LRB-D-O-MIDI		
Rotary knob with integrated lock						
Mini	194683	LRBS-D-7-O-MINI	194682	LRBS-D-O-MINI		
Midi	194687	LRBS-D-7-O-MIDI	194686	LRBS-D-O-MIDI		

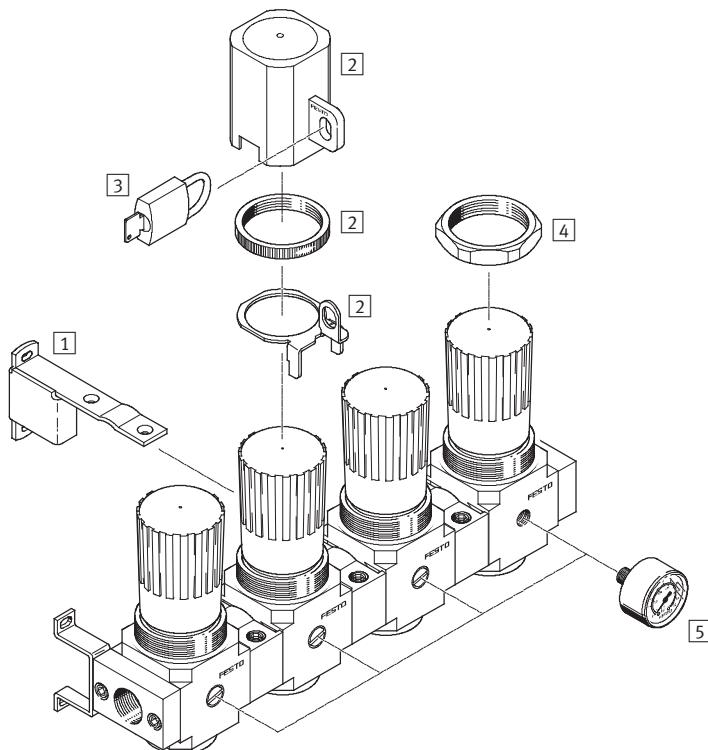
Pressure regulator combinations LRB-K, D series, metal design

Peripherals overview

FESTO

Mini/Midi

Pressure regulator combination LRB-K



Mounting attachments and accessories

➔ Page/
Internet

[1]	Mounting bracket (included in scope of delivery) HRBK ¹⁾
[2]	Regulator lock LRVS
[3]	Padlock LRVS-D
[4]	Hex nut (for front panel mounting) HMR
[5]	Pressure gauge MA

1) The mounting bracket must be mounted after every second pressure regulator.

Pressure regulator combinations LRB-K, D series, metal design

FESTO

Type codes

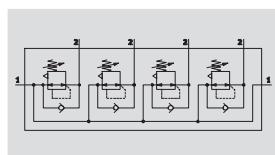
LRB	-	1/4	-	D	-	7	-	0	-	K2	-	MINI												
Basic function																								
LRB	Pressure regulator combination																							
Pneumatic connection																								
1/4 Thread G1/4																								
3/8 Thread G3/8																								
1/2 Thread G1/2																								
Series																								
D	Series																							
Pressure regulation range																								
0.5 ... 12 bar																								
7	0.5 ... 7 bar																							
Pressure gauge																								
0	Without pressure gauge																							
Functions																								
K2	Manifold with 2 pressure regulators																							
K3	Manifold with 3 pressure regulators																							
K4	Manifold with 4 pressure regulators																							
K5	Manifold with 5 pressure regulators																							
Size																								
MINI	Grid dimension 40 mm (without connecting plates)																							
MIDI	Grid dimension 55 mm (without connecting plates)																							

Pressure regulator combinations LRB-K, D series, metal design

Technical data

FESTO

Function



Flow rate

1,600 ... 3,800 l/min

Temperature range

-10 ... +60 °C

Pressure

1 ... 16 bar

Pressure regulator combinations

LRB-...-D-...-O-K2

LRB-...-D-...-O-K3

LRB-...-D-...-O-K4

LRB-...-D-...-O-K5

with through pressure supply for
manifold assembly



- Good control characteristics with low hysteresis and primary pressure compensation
- Manifold assembly with through air supply
- For configuring a regulator manifold with independent pressure ranges

- Two pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar
- Settings secured via detent on knob and push-in adjustment lock
- Directly actuated diaphragm regulator

General technical data

Size	Mini		Midi	
Pneumatic connection 1	G1/4	G3/8	G3/8	G1/2
Pneumatic connection 2	G1/4		G3/8	
Design	Directly actuated diaphragm regulator with through pressure air supply			
Regulator type	Output pressure constant, with primary pressure compensation, with secondary venting			
Type of mounting	Via accessory (mounting bracket HRB or HRBK included in scope of delivery)			
Assembly position	Any			
Regulator lock	Rotary knob with detent			
Pressure regulation range [bar]	0.5 ... 7		0.5 ... 12	
Max. hysteresis [bar]	0.2			
Pressure indication	G1/8 prepared		G1/4 prepared	

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate q_{nN}^1 [l/min]

Size	Mini		Midi
Pressure regulation range	0.5 ... 7 bar	1,800	3,800
	0.5 ... 12 bar	1,600	3,200

1) Measured at $p_1 = 10$ bar, $p_2 = 6$ bar and $\Delta p = 1$ bar.

Pressure regulator combinations LRB-K, D series, metal design

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Technical data

Operating and environmental conditions

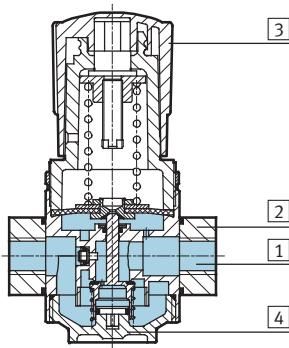
Operating pressure [bar]	1 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Ambient temperature [°C]	-10 ... +60
Temperature of medium [°C]	-10 ... +60

Weight [g]

Size	Mini	Midi
Manifold with 2 pressure regulators		
LRB-...-K2	760	1950
Manifold with 3 pressure regulators		
LRB-...-K3	1090	3144
Manifold with 4 pressure regulators		
LRB-...-K4	1480	3834
Manifold with 5 pressure regulators		
LRB-...-K5	1860	4828

Materials

Sectional view



Pressure regulator	Mini/Midi
[1] Housing	Die-cast zinc
[2] Connecting plates	Die-cast zinc
[3] Regulating knob	PA
[4] Plug cap	PC
- Seals	NBR

Pressure regulator combinations LRB-K, D series, metal design

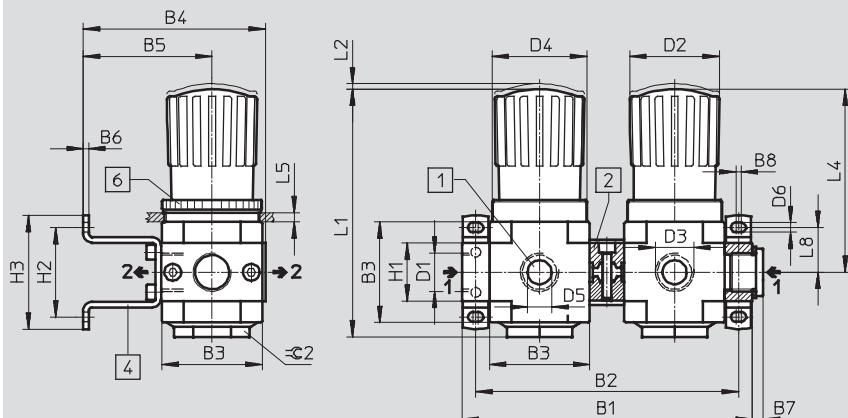
Technical data

FESTO

Dimensions

LRB-...-D-...-K2-...

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- [1] Pressure gauge connection
- [2] Connecting kit HRBC-D...

- [4] Mounting bracket HRB-D...

- [6] Knurled nut or hex nut (not included in scope of delivery) for front panel mounting

➔ Flow direction,
both directions possible

Type	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4
Mini												
LRB-1/4-D-...-K2-MINI	119	~107	40	80.7	59.2	2.5	5	3	G1/4 G3/8	31	G1/4	M36x1.5
LRB-3/8-D-...-K2-MINI	125											
Midi												
LRB-3/8-D-...-K2-MIDI	159	~144	55	99.9	70.6	3	5	3	G3/8 G1/2	49.3	G3/8	M52x1.5
LRB-1/2-D-...-K2-MIDI							6					

Type	D5	D6	H1	H2 ±0.2	H3 ±0.5	L1	L2	L4	L5 max.	L8	=C 2
Mini											
LRB-1/4-D-...-K2-MINI	G1/8	4.3	20	35	47.3	~95.4	3	~68.9	3	17.5	17
LRB-3/8-D-...-K2-MINI											
Midi											
LRB-3/8-D-...-K2-MIDI	G1/4	5.3	32	49	62	~135.8	3	~100.3	5	24.5	36
LRB-1/2-D-...-K2-MIDI											

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulator combinations LRB-K, D series, metal design

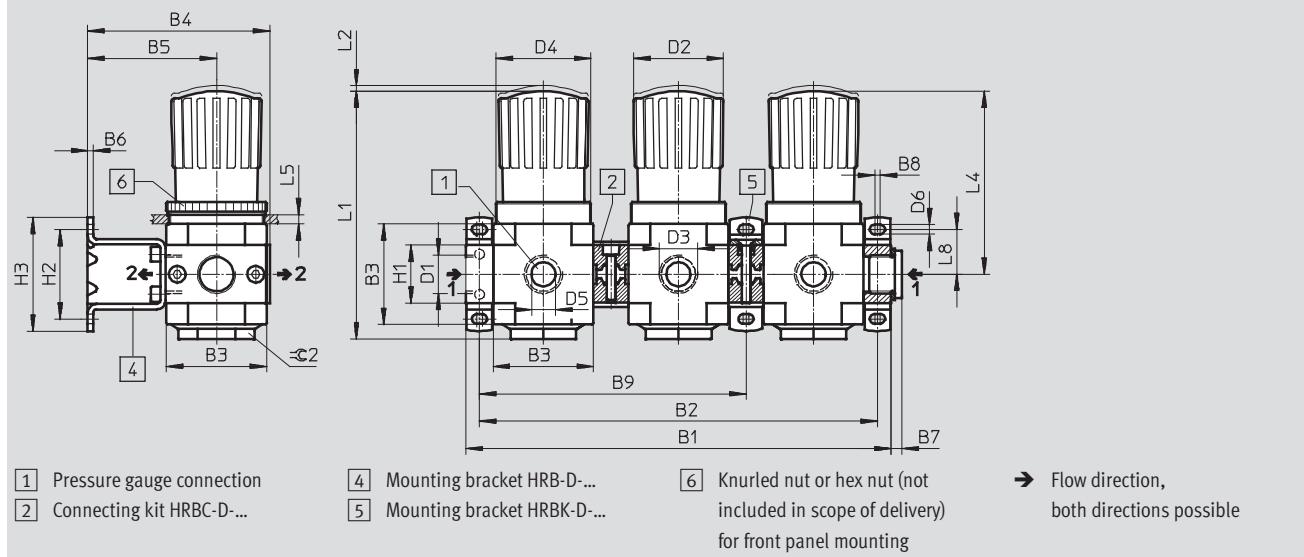
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Technical data

Dimensions

LRB-...-D-...-K3-...

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Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	D1	D2	D3	D4
Mini													
LRB-1/4-D-...-K3-MINI	174	~162	40	80.7	59.2	2.5	5	3	108.5	G1/4 G3/8	31	G1/4	M36x1.5
LRB-3/8-D-...-K3-MINI	180												
Midi													
LRB-3/8-D-...-K3-MIDI	233	~218	55	99.9	70.6	3	5 6	3	146	G3/8 G1/2	49.3	G3/8	M52x1.5
LRB-1/2-D-...-K3-MIDI													

Type	D5	D6	H1	H2 ±0.2	H3 ±0.5	L1	L2	L4	L5 max.	L8	=C 2
Mini											
LRB-1/4-D-...-K3-MINI	G1/8	4.3	20	35	47.3	~95.4	3	~68.9	3	17.5	17
LRB-3/8-D-...-K3-MINI											
Midi											
LRB-3/8-D-...-K3-MIDI	G1/4	5.3	32	49	62	~135.8	3	~100.3	5	24.5	36
LRB-1/2-D-...-K3-MIDI											

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulator combinations LRB-K, D series, metal design

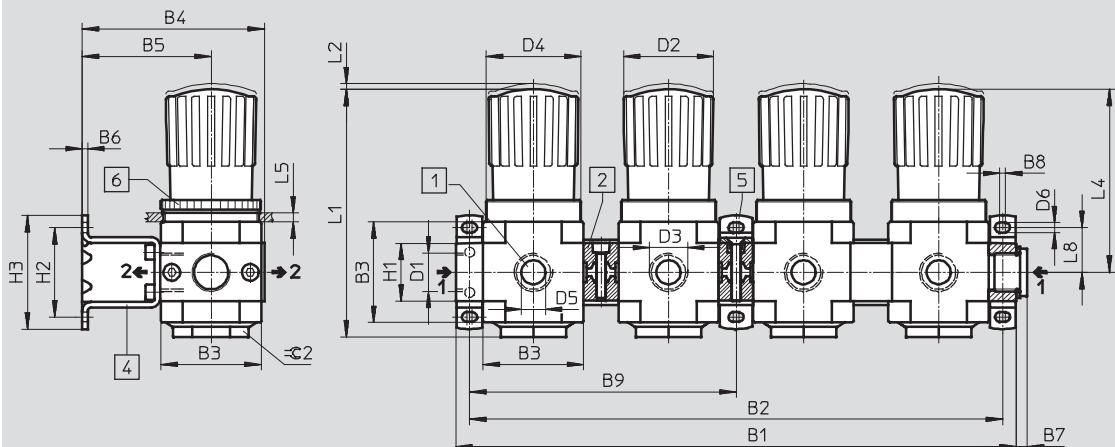
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Technical data

Dimensions

LRB-...-D-...-K4-...

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[1] Pressure gauge connection
[2] Connecting kit HRBC-D...

[4] Mounting bracket HRB-D...
[5] Mounting bracket HRBK-D...

[6] Knurled nut or hex nut (not included in scope of delivery)
for front panel mounting

➔ Flow direction,
both directions possible

Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	D1	D2	D3	D4
Mini													
LRB-1/4-D-...-K4-MINI	229	~217	40	80.7	59.2	2.5	5	3	108.5	G1/4 G3/8	31	G1/4	M36x1.5
LRB-3/8-D-...-K4-MINI	235												
Midi													
LRB-3/8-D-...-K4-MIDI	307	~292	55	99.9	70.6	3	5 6	3	146	G3/8 G1/2	49.3	G3/8	M52x1.5
LRB-1/2-D-...-K4-MIDI													

Type	D5	D6	H1	H2 ±0.2	H3 ±0.5	L1	L2	L4	L5 max.	L8	=C 2
Mini											
LRB-1/4-D-...-K4-MINI	G1/8	4.3	20	35	47.3	~95.4	3	~68.9	3	17.5	17
LRB-3/8-D-...-K4-MINI											
Midi											
LRB-3/8-D-...-K4-MIDI	G1/4	5.3	32	49	62	~135.8	3	~100.3	5	24.5	36
LRB-1/2-D-...-K4-MIDI											

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulator combinations LRB-K, D series, metal design

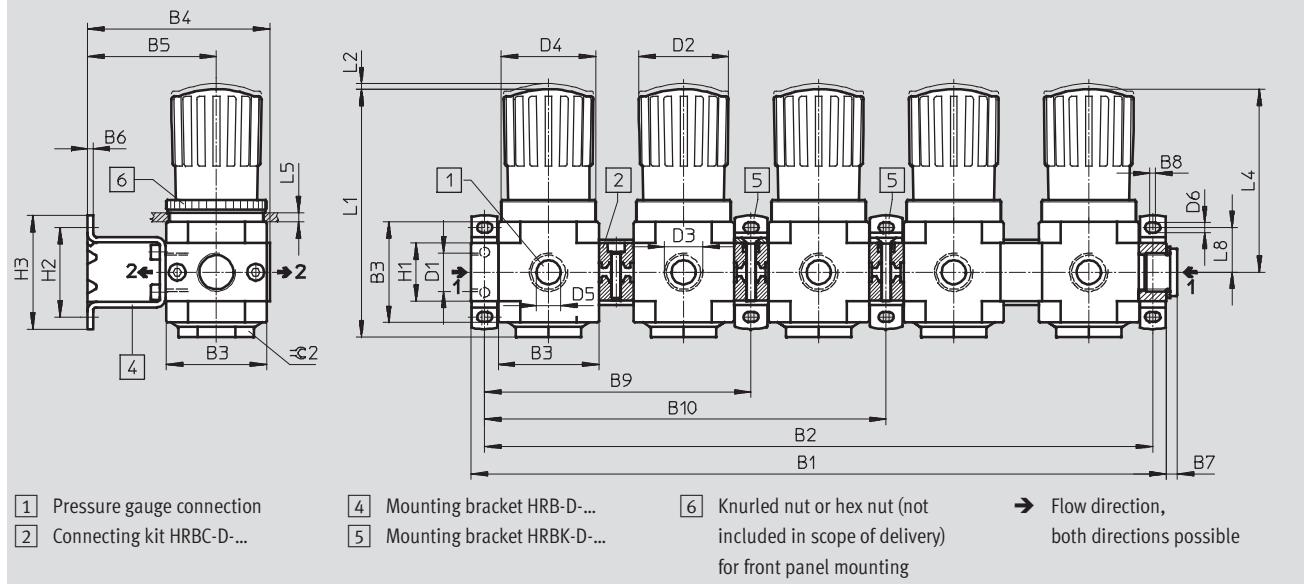
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Technical data

Dimensions

LRB-...-D-...-K5-...

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Type	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	D1	D2	D3	D4
Mini														
LRB-1/4-D-...-K5-MINI	284	~272	40	80.7	59.2	2.5	5	3	108.5	163.5	G1/4 G3/8	31	G1/4	M36x1.5
LRB-3/8-D-...-K5-MINI	290													
Midi														
LRB-3/8-D-...-K5-MIDI	381	~366	55	99.9	70.6	3	5 6	3	146	220	G3/8 G1/2	49.3	G3/8	M52x1.5
LRB-1/2-D-...-K5-MIDI														

Type	D5	D6	H1	H2 ±0.2	H3 ±0.5	L1	L2	L4	L5 max.	L8	=C 2
Mini											
LRB-1/4-D-...-K5-MINI	G1/8	4.3	20	35	47.3	~95.4	3	~68.9	3	17.5	17
LRB-3/8-D-...-K5-MINI											
Midi											
LRB-3/8-D-...-K5-MIDI	G1/4	5.3	32	49	62	~135.8	3	~100.3	5	24.5	36
LRB-1/2-D-...-K5-MIDI											

Note: This product conforms to ISO 1179-1 and ISO 228-1

Pressure regulator combinations LRB-K, D series, metal design

FESTO

Technical data

Ordering data					
Connecting kit, connecting plate and mounting bracket					
Size	Connection	Pressure regulation range 0.5 ... 7 bar		Pressure regulation range 0.5 ... 12 bar	
		Part No.	Type		
Manifold with 2 pressure regulators					
Mini	G1/4	528952	LRB-1/4-D-7-O-K2-MINI	528954	LRB-1/4-D-O-K2-MINI
	G3/8	528953	LRB-3/8-D-7-O-K2-MINI		528955 LRB-3/8-D-O-K2-MINI
Midi	G3/8	528956	LRB-3/8-D-7-O-K2-MIDI	528958	LRB-3/8-D-O-K2-MIDI
	G1/2	528957	LRB-1/2-D-7-O-K2-MIDI		528959 LRB-1/2-D-O-K2-MIDI
Manifold with 3 pressure regulators					
Mini	G1/4	528968	LRB-1/4-D-7-O-K3-MINI	528970	LRB-1/4-D-O-K3-MINI
	G3/8	528969	LRB-3/8-D-7-O-K3-MINI		528971 LRB-3/8-D-O-K3-MINI
Midi	G3/8	528972	LRB-3/8-D-7-O-K3-MIDI	528974	LRB-3/8-D-O-K3-MIDI
	G1/2	528973	LRB-1/2-D-7-O-K3-MIDI		528975 LRB-1/2-D-O-K3-MIDI
Manifold with 4 pressure regulators					
Mini	G1/4	528984	LRB-1/4-D-7-O-K4-MINI	528986	LRB-1/4-D-O-K4-MINI
	G3/8	528985	LRB-3/8-D-7-O-K4-MINI		528987 LRB-3/8-D-O-K4-MINI
Midi	G3/8	528988	LRB-3/8-D-7-O-K4-MIDI	528990	LRB-3/8-D-O-K4-MIDI
	G1/2	528989	LRB-1/2-D-7-O-K4-MIDI		528991 LRB-1/2-D-O-K4-MIDI
Manifold with 5 pressure regulators					
Mini	G1/4	529000	LRB-1/4-D-7-O-K5-MINI	529002	LRB-1/4-D-O-K5-MINI
	G3/8	529001	LRB-3/8-D-7-O-K5-MINI		529003 LRB-3/8-D-O-K5-MINI
Midi	G3/8	529004	LRB-3/8-D-7-O-K5-MIDI	529006	LRB-3/8-D-O-K5-MIDI
	G1/2	529005	LRB-1/2-D-7-O-K5-MIDI		529007 LRB-1/2-D-O-K5-MIDI

Pressure regulator combinations LRB-K, D series, metal design

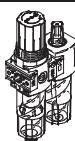
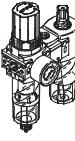
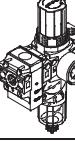
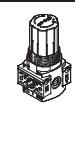
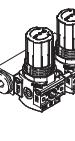
Technical data

FESTO

Pressure regulators LR/LRB, D series, polymer

Product range overview D series service units, polymer

FESTO

Type	Size	Pneumatic connection			Pressure regulation range [bar]	Grade of filtration [μm]	
		G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{2}$		5	40
Service units							
FRC		Mini	■	■	-	■	■
Service unit combinations							
FRC-K		Mini	-	■	-	■	-
LFR-K		Mini	-	■	-	■	-
Individual devices							
Filter regulators LFR		Mini	■	■	-	■	■
Pressure regulators LR		Mini	■	■	-	■	-
Pressure regulator combinations LRB-K		Mini	-	-	■	■	-

Pressure regulators LR/LRB, D series, polymer

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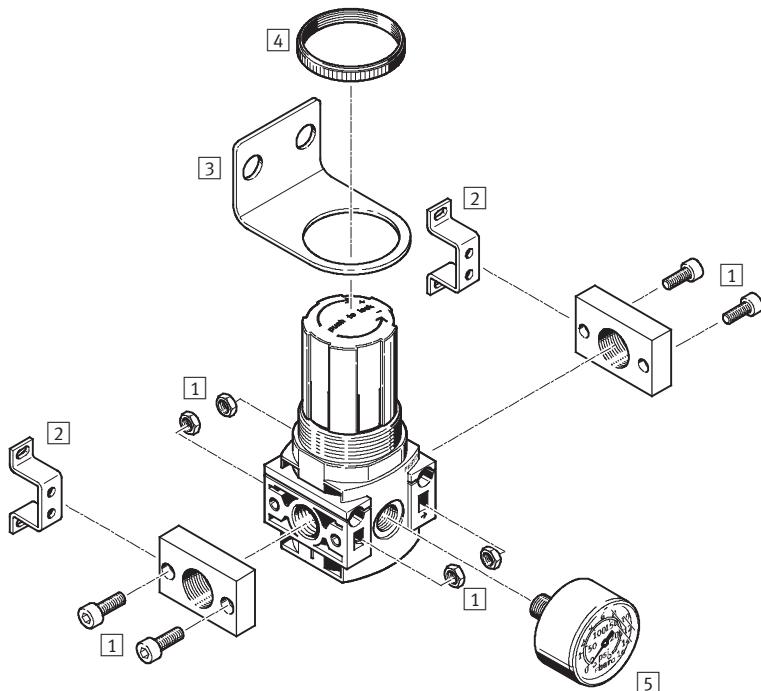
Product range overview D series service units, polymer

Type	Size	Condensate drain		Pressure display		Actuator lock	Regulating functions		➔ Page/ Internet
		Manual rotary	Semi-automatic	With pressure gauge	Without pressure gauge		With secondary venting	With return flow function	
Service units									
FRC	Mini	■	■	■	—	■	■	■	frc
Service unit combinations									
FRC-K	Mini	■	—	■	—	■	■	■	frc
LFR-K	Mini	■	—	■	—	■	■	■	lfr
Individual devices									
Filter regulators	Mini	■	■	■	■	■	■	■	lfr
LFR	—	■	■	■	■	■	■	■	—
Pressure regulators	Mini	—	—	■	■	■	■	■	40
LR	—	—	—	—	—	—	—	—	—
Pressure regulator combinations	—	—	—	—	■	■	■	■	45
LRB-K	—	—	—	—	—	—	—	—	—

Pressure regulators LR, D series, polymer

Peripherals overview

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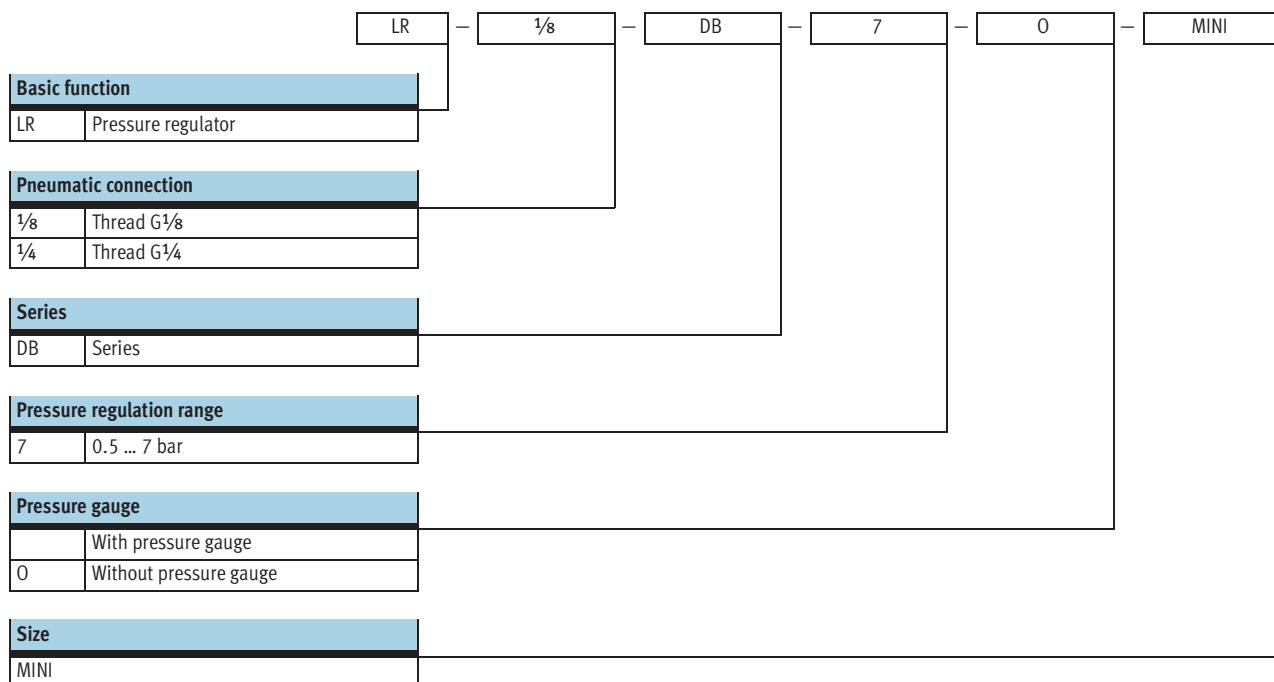


Mounting attachments and accessories		➔ Page/ Internet
[1]	Connecting plate kit PBL	pbl
[2]	Mounting bracket HFOE	hfoe-d
[3]	Mounting bracket HR-D	hr-d
[4]	Knurled nut (included in scope of delivery) LRVS	-
[5]	Pressure gauge MA	52

Pressure regulators LR, D series, polymer

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Type codes

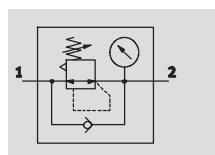


Pressure regulators LR, D series, polymer

Technical data

FESTO

with pressure gauge



Flow rate

800 ... 1,300 l/min

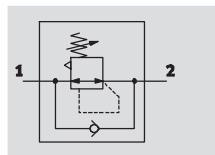
Temperature range

-5 ... +50 °C

Pressure

1.5 ... 10 bar

without pressure gauge



- Setting values are secured by locking the rotary knob
- Good regulating characteristics with minimal pressure hysteresis
- High flow rate

General technical data			
Size	Mini		
	With pressure gauge	Without pressure gauge	
Pneumatic connection	G1/8	G1/4	G1/8 G1/4
Design	Pressure regulator with pressure gauge		
Regulating function	With return flow function With secondary venting		
Type of mounting	Inline installation		
	Via through-holes		
	Via mounting bracket		
	Front panel mounting		
Assembly position	Any		
Regulator lock	Rotary knob with detent		
Max. hysteresis [bar]	0.5		
Pressure regulation range [bar]	0.5 ... 7		
Pressure indication	Via pressure gauge	G1/8 prepared	
Pressure gauge connection	G1/8		

Standard nominal flow rate ¹⁾ q _N [l/min]		
Pneumatic connection	G1/8	G1/4
Mini		
Pressure regulation range 0.5 ... 7 bar	≥ 800	≥ 1,300

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

Pressure regulators LR, D series, polymer

FESTO

Technical data

Operating and environmental conditions

Size	Mini
Operating pressure [bar]	1.5 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [-:-:-]
Ambient temperature [°C]	-5 ... +50
Temperature of medium [°C]	-5 ... +50
Corrosion resistance class CRC ¹⁾	1

1) CRC1: Corrosion resistance class to Festo standard 940 070

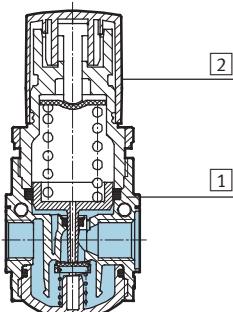
Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.

Weight [g]

Size	Mini
Pressure regulator	150

Materials

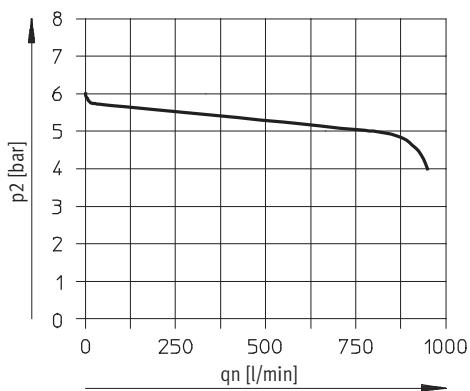
Sectional view



Pressure regulator	Mini
[1] Housing	Polyamide, reinforced
[2] Rotary knob	Polyacetate
- Seals	Nitrile rubber
Note on materials	RoHS-compliant

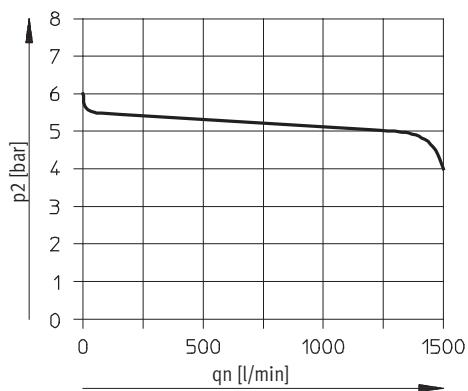
Standard flow rate q_n as a function of output pressure p_2

Pneumatic connection G1/8



Primary pressure $p_1 = 10$ bar

Pneumatic connection G1/4



Note

Slight leakage at the output has been taken into account in the design. It improves the control behaviour of the non pre-pressure compensated controller.

In a few cases leakage may amount to 500 l/h.

Pressure regulators LR, D series, polymer

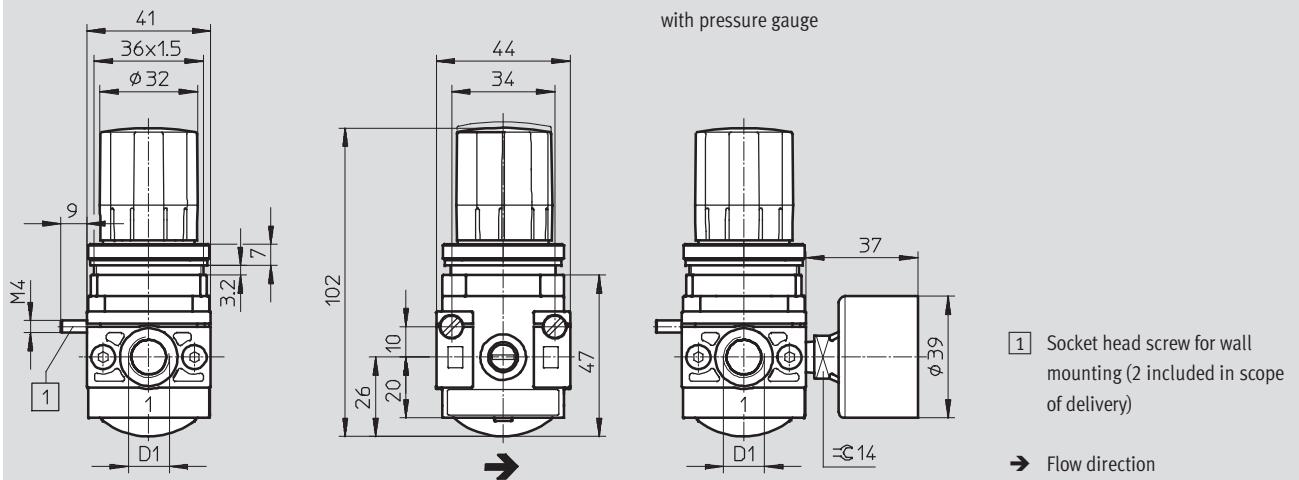
Technical data

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Dimensions

Download CAD Data ➔ www.festo.com/us/cad

Mini



Type	D1
Mini	
LR-1/8-DB	G1/8
LR-1/4-DB	G1/4

Ordering data

Size	Connection	Pressure regulation range 0.5 ... 7 bar	
		Part No.	Type
With pressure gauge			
Mini	G1/8	539681	LR-1/8-DB-7-MINI
	G1/4	539682	LR-1/4-DB-7-MINI
Without pressure gauge			
Mini	G1/8	537642	LR-1/8-DB-7-O-MINI
	G1/4	537643	LR-1/4-DB-7-O-MINI

Pressure regulator combinations LRB-K, D series, polymer

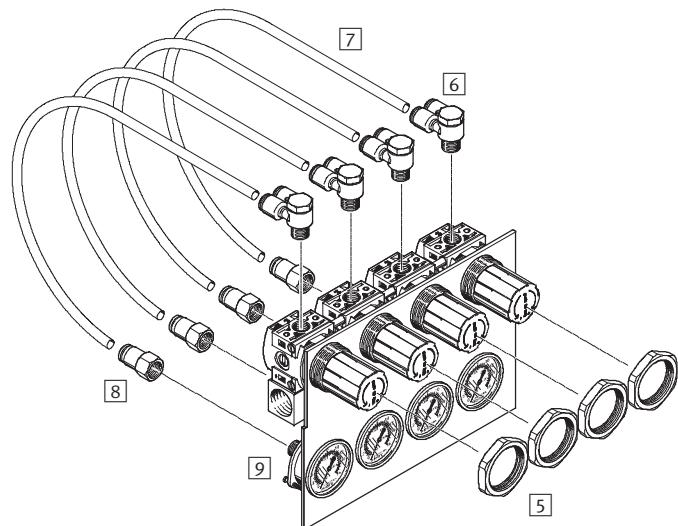
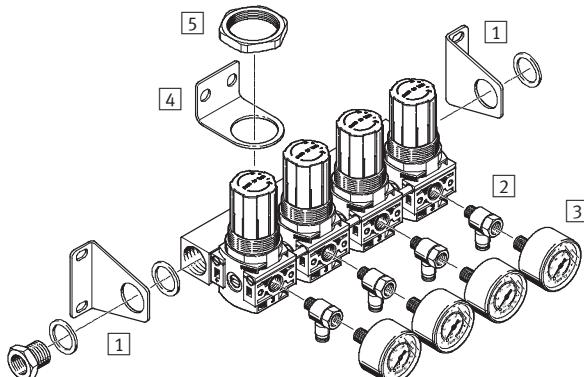
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Peripherals overview

Mini

With mounting bracket

Front panel mounting



Mounting attachments and accessories

	With mounting bracket	Front panel mounting	➔ Page/ Internet
[1] Mounting bracket kit HRBS-DB-MINI	■	–	hrbs-db
[2] Push-in T-fitting QSTF	■	–	52
[3] Pressure gauge MA	■	–	52
[4] Mounting bracket HR-D	■	–	hr-d
[5] Hex nut HMR	■	■	hmr-d
[6] Push-in Y-fitting QSYLV	–	■	52
[7] Plastic tubing PUN-E	–	■	pun-e
[8] Push-in fitting QSF	–	■	52
[9] Flanged pressure gauge FMA	–	■	52

Pressure regulator combinations LRB-K, D series, polymer

Type codes

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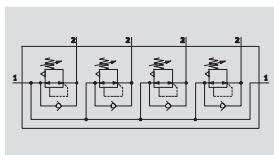
LRB	-	1/4	-	DB	-	7	-	0	-	K2	-	MINI
Basic function												
LRB	Pressure regulator combination											
Pneumatic connection 2												
1/4	Thread G1/4											
Series												
DB	Series											
Pressure regulation range												
7	0.5 ... 7 bar											
Pressure gauge												
0	Without pressure gauge											
Regulator												
K2	Manifold with 2 pressure regulators											
K3	Manifold with 3 pressure regulators											
K4	Manifold with 4 pressure regulators											
K5	Manifold with 5 pressure regulators											
Size												
MINI												

Pressure regulator combinations LRB-K, D series, polymer

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Technical data

Function



Flow rate

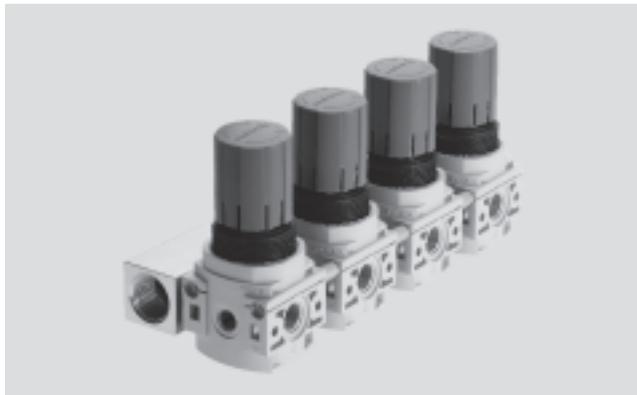
1,000 l/min

Temperature range

-5 ... +50 °C

Pressure

1.5 ... 10 bar



- Good control characteristics with low hysteresis and primary pressure compensation
- Manifold assembly with through air supply
- For the configuration of a regulator manifold with independent pressure ranges
- Setting values are secured by locking the rotary knob

General technical data

Size	Mini
Pneumatic connection 1	G½
Pneumatic connection 2	G¼
Design	Directly actuated piston regulator
	On P-manifold
Regulating functions	Output pressure constant
	With return flow function
	With secondary venting
Type of mounting	Front panel mounting
	Via accessories
Assembly position	Any
Regulator lock	Rotary knob with detent
Max. hysteresis	[bar] 0.5
Pressure regulation range	[bar] 0.5 ... 7

Standard nominal flow rate¹⁾ qN [l/min]

Size	Mini
Pressure regulation range 0.5 ... 7 bar	≥ 1,000

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

Operating and environmental conditions

Size	Mini
Operating pressure	[bar] 1.5 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [-:-:-]
Ambient temperature	[°C] -5 ... +50
Temperature of medium	[°C] -5 ... +50
Corrosion resistance class CRC ¹⁾	1

1) CRC1: Corrosion resistance class to Festo standard 940 070

Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.

Pressure regulator combinations LRB-K, D series, polymer

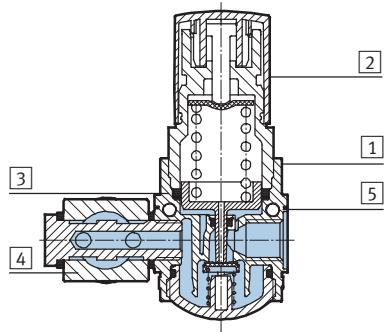
FESTO

Technical data

Weight [g]	
Size	Mini
Manifold with 2 pressure regulators	
LRB-...-K2	500
Manifold with 3 pressure regulators	
LRB-...-K3	750
Manifold with 4 pressure regulators	
LRB-...-K4	1000
Manifold with 5 pressure regulators	
LRB-...-K5	1250

Materials

Sectional view



Pressure regulator	Mini
1 Housing	Polyamide, reinforced
2 Rotary knob	Polyacetate
3 Sealing ring	Polyvinyl chloride
4 Manifold strip	Wrought aluminium alloy
5 Spacing bolt	Wrought aluminium alloy
- Seals	Nitrile rubber

Pressure regulator combinations LRB-K, D series, polymer

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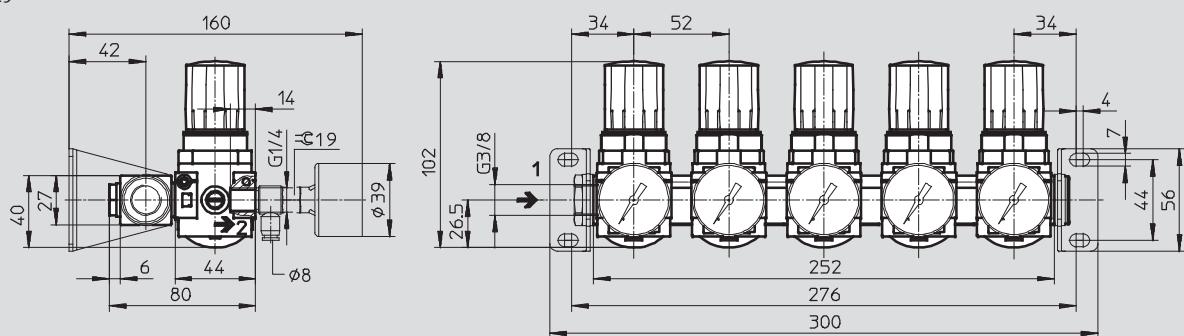
Technical data

Dimensions

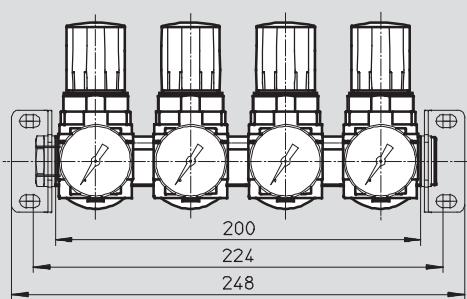
With mounting bracket

Download CAD Data ➔ www.festo.com/us/cad

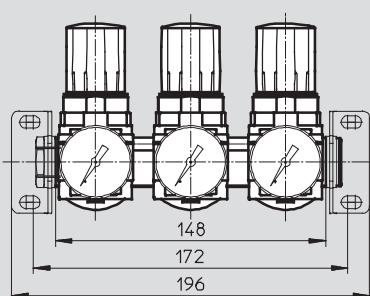
LRB-...-K5



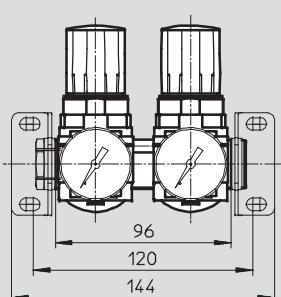
LRB-...-K4



LRB-...-K3



LRB-...-K2



➔ Flow direction

Pressure regulator combinations LRB-K, D series, polymer

Technical data

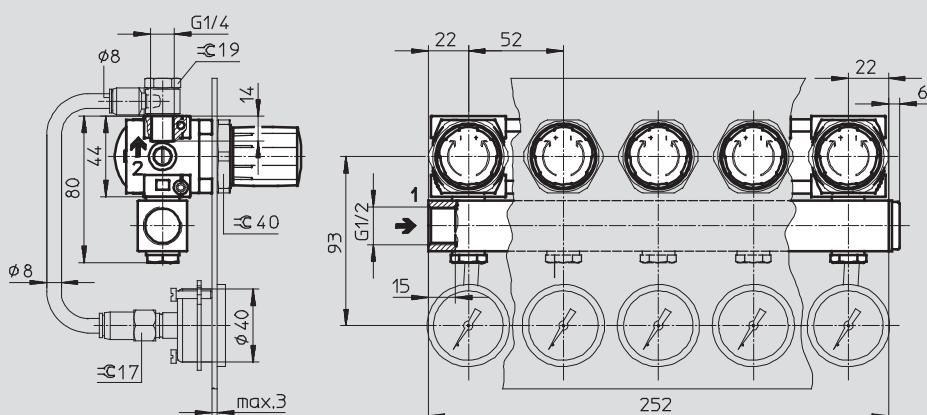
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Dimensions

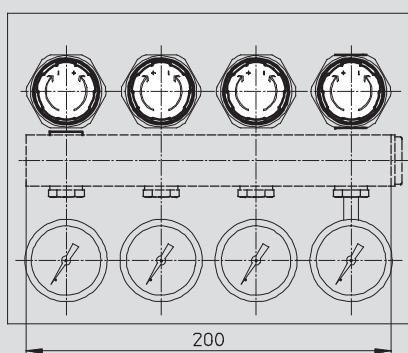
Front panel mounting

Download CAD Data ➔ www.festo.com/us/cad

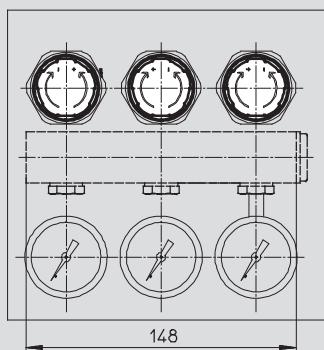
LRB-...-K5



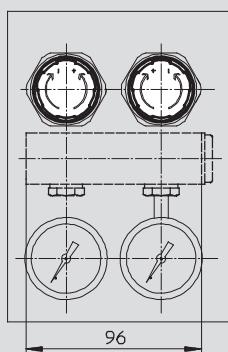
LRB-...-K4



LRB-...-K3



LRB-...-K2



➔ Flow direction

Pressure regulator combinations LRB-K, D series, polymer

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Technical data

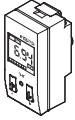
Ordering data			
Size	Connection	Pressure regulation range 0.5 ... 7 bar	
		Part No.	Type
Manifold with 2 pressure regulators			
Mini	G ¹ / ₄	540040	LRB-1/4-DB-7-O-K2-MINI
Manifold with 3 pressure regulators			
Mini	G ¹ / ₄	540041	LRB-1/4-DB-7-O-K3-MINI
Manifold with 4 pressure regulators			
Mini	G ¹ / ₄	540042	LRB-1/4-DB-7-O-K4-MINI
Manifold with 5 pressure regulators			
Mini	G ¹ / ₄	540043	LRB-1/4-DB-7-O-K5-MINI

Pressure regulators LR/LRS/LRB/LRBS, D series

Accessories

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Ordering data – Pressure gauge MA					Part No.	Type
	Nominal size	Pneumatic connection	Indicating range [bar]	[psi]		
	Pressure gauge MA					Technical data → Internet: ma
	27	M5	0 ... 10	–	526323	MA-27-10-M5
	40	G $\frac{1}{8}$	0 ... 10	0 ... 145	359874	MA-40-10- $\frac{1}{4}$
			0 ... 16	0 ... 232	345395	MA-40-16- $\frac{1}{4}$
	50	G $\frac{1}{4}$	0 ... 10	0 ... 145	359873	MA-50-10- $\frac{1}{4}$
			0 ... 16	0 ... 232	356759	MA-50-16- $\frac{1}{4}$
	Pressure gauge MA, DIN EN 837-1					Technical data → Internet: ma
	40	R $\frac{1}{8}$	0 ... 10	0 ... 145	162835	MA-40-10- $\frac{1}{8}$ -EN
		G $\frac{1}{4}$	0 ... 10	0 ... 145	183900	MA-40-10-G $\frac{1}{4}$ -EN
	Flanged pressure gauge FMA, DIN EN 837-1					Technical data → Internet: fma
40	G $\frac{1}{4}$	0 ... 10	0 ... 145	159596	FMA-40-10- $\frac{1}{4}$ -EN	
		0 ... 16	0 ... 232	159597	FMA-40-16- $\frac{1}{4}$ -EN	
50	G $\frac{1}{4}$	0 ... 10	0 ... 145	159599	FMA-50-10- $\frac{1}{4}$ -EN	
		0 ... 16	0 ... 232	159600	FMA-50-16- $\frac{1}{4}$ -EN	

Ordering data – Pressure sensor SDE1					Technical data → Internet: sde1	
	Pneumatic connection	Electrical output	Electrical connection	Display	Part No.	Type
Pressure sensor SDE1 for direct mounting on the service unit with pressure gauge connection (adapter for pneumatic connection included in scope of delivery), pressure measuring range 0 ... 10 bar, relative pressure measurement						
	Male thread R $\frac{1}{8}$	1 switch output PNP	M8x1, 3-pin	LCD	192026	SDE1-D10-G2-R18-C-P1-M8
		2 switch outputs PNP	M8x1, 4-pin	LCD	192027	SDE1-D10-G2-R18-C-P2-M8
	Male thread R $\frac{1}{4}$	1 switch output PNP	M8x1, 3-pin	LCD	192028	SDE1-D10-G2-R14-C-P1-M8
		2 switch outputs PNP	M8x1, 4-pin	LCD	192029	SDE1-D10-G2-R14-C-P2-M8

Ordering data – Push-in fitting					PU ¹⁾
	Pneumatic connection	Tubing O.D.	Part No.	Type	PU ¹⁾
Push-in fitting QSF, female thread with external hex					
	G $\frac{1}{4}$	8	153026	QSF- $\frac{1}{4}$ -8-B	10
Push-in T-fitting QSTF, 360° rotatable, with male and female thread					
	G $\frac{1}{4}$	8	186203	QSTF-G $\frac{1}{4}$ -8	1
Push-in Y-fitting QSYLV, 360° rotatable, male thread with external hex					
	G $\frac{1}{4}$	8	186210	QSYLV-G $\frac{1}{4}$ -8	1

1) Packaging unit quantity

Product Range and Company Overview

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