

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

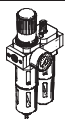
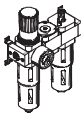
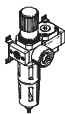
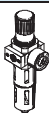
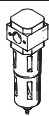
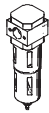
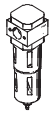
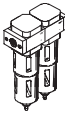
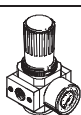
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Pressure regulators LR/LRS/LRB/LRBS, D series, metal design

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Product range overview D series service units, metal design

Type		Size	Pneumatic connection										Pressure regulation range [bar]			Grade of filtration [µm]			
			M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	0.5 ...	0.5 ...	2.5 ...	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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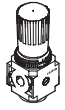
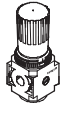
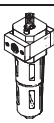
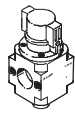
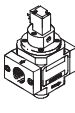
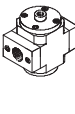
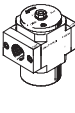
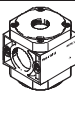
Product range overview D series service units, metal design

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	Directly actuated pressure regulator with integrated return flow function	Pilot actuated pressure regulator with integrated return flow function	Differential pressure indicator	
Service units																	
FRC/FRCS	Micro	–	■	■	■	–	■	■	■	–	–	–	–	–	–	–	frc
	Mini	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Midi	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	■	■	■	–	–	–	■	■	–	
Service unit combinations																	
FRC-K	Micro	–															frc
	Mini	■	–	■	–	■	■	–	■	–	–	–	–	–	–	–	
	Midi	■	–	■	–	■	■	–	■	–	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	–	■	–	–	–	–	■	■	–	
LFR-K LFRS-K	Micro	–															lfr
	Mini	■	–	■	–	■	■	–	■	■	■	–	–	–	–	–	
	Midi	■	–	■	–	■	■	–	■	■	■	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	–	■	■	■	–	–	■	■	–	
Individual devices																	
Filter regulators LFR/LFRS	Micro	–	■	■	■	–	■	■	■	–	–	–	–	–	–	–	lfr
	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 ... 7	0.5 ... 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 V AC	230 V AC	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

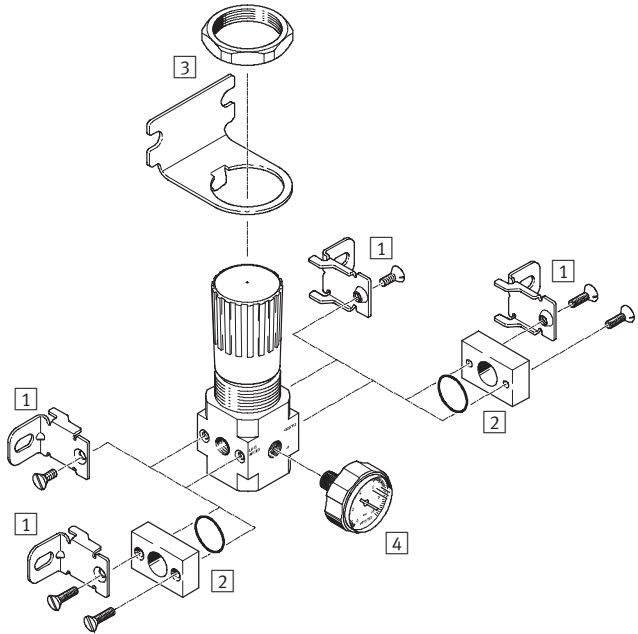
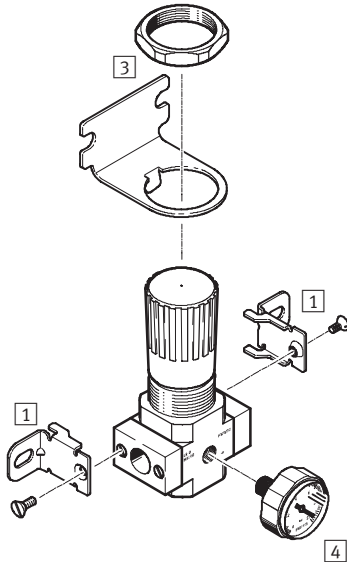
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Peripherals overview

Micro

Individual unit with connection plates,
connection size G $\frac{1}{8}$, 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

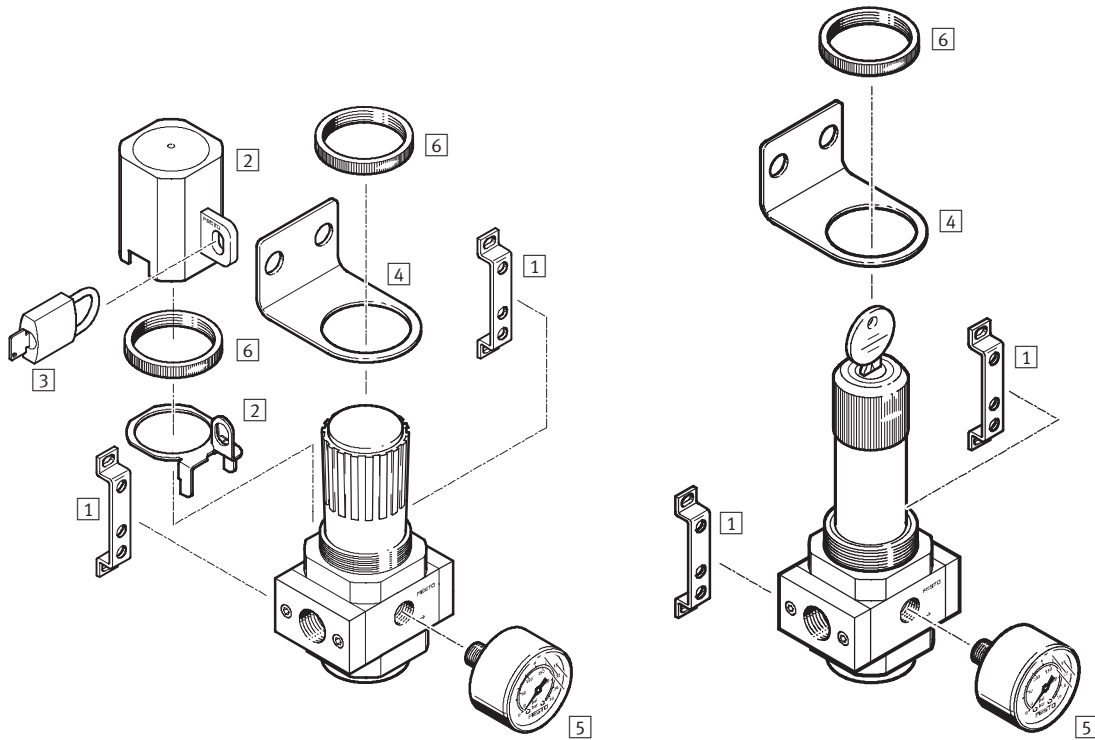
Peripherals overview

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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

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Type codes

		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)														

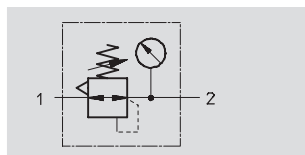
Pressure regulators LR/LRS, D series, metal design

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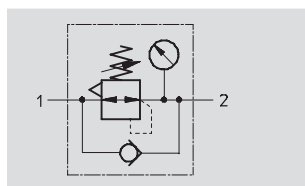
Technical data

Function

LR/LRS-...-D-...



LR/LRS-...-D-DI-MAXI



- - Flow rate
120 ... 12500 l/min

- - Temperature range
-10 ... +60 °C

- - Input pressure
1 ... 16 bar

Integrated universal locking for pressure regulators of D series which prevents alteration of the set secondary pressure (p2) by unauthorized persons. Universal locking means that multiple locks can be closed with the same key. A cylinder lock is integrated in the rotary knob.



- Also suitable for front panel mounting
- Two pressure gauge connections for different fitting options
- Mini and Midi sizes: Directly actuated diaphragm regulator
- Maxi size: Pilot actuated piston regulator, diaphragm regulator LRS-DI
- 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
Operating medium	Compressed air					Filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm									
Design	Directly actuated diaphragm regulator					Directly actuated diaphragm regulator							Pilot actuated piston regulator		
													Directly actuated diaphragm regulator		
Type of mounting	Via accessories					Via accessories									
	In-line installation					In-line installation									
	Front panel mounting					Front panel mounting									
Assembly position	Any					Any									
Max. hysteresis [bar]	0.3					0.2							0.4		
Input pressure [bar]	1 ... 10					1 ... 16									
Pressure regulation range [bar]	0.5 ... 7					0.5 ... 7									
						0.5 ... 12									
Pressure indication	Via pressure gauge					Via pressure gauge									
	M5 prepared					G1/8 prepared			G1/4 prepared			G1/4 prepared			

- - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Standard nominal flow rate ¹⁾ qnN [l/min]					
Connection	Female thread		Connecting plate		
	M5	M7	G1/8	QS4	QS6
Micro					
LR	120	300	450	160	450

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

Standard nominal flow rate ¹⁾ qnN [l/min]						
Connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Mini						
Pressure regulation range 0.5 ... 7 bar	1000	1600	1800	–	–	–
Pressure regulation range 0.5 ... 12 bar	800	1500	1700	–	–	–
Midi						
Pressure regulation range 0.5 ... 7 bar	–	2200	3300	4000	4500	–
Pressure regulation range 0.5 ... 12 bar	–	2100	3200	3500	3500	–
Maxi						
Pressure regulation range 0.5 ... 7 bar	–	–	–	10700	12000	12500
Pressure regulation range 0.5 ... 12 bar	–	–	–	10500	11000	11500
Maxi – Directly actuated pressure regulator with integrated return flow function						
Pressure regulation range 0.5 ... 7 bar	–	–	–	5400	6800	7000
Pressure regulation range 0.5 ... 12 bar	–	–	–	7300	8350	8400

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

Screw-in depth of connecting thread [mm]					
Connection	M5	M7	G1/8	QS4	QS6
Micro					
In housing	5	6	–	–	–
In connecting plates	–	–	8	–	–

Ambient conditions				
Size	Micro	Mini	Midi	Maxi
Ambient temperature [°C]	–10 ... +60			
Temperature of medium [°C]	–10 ... +60			
Corrosion resistance class 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 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	60	80	350	720	1200
LRS	–	–	520	1250	1290
Without pressure gauge					
LR	50	70	300	660	1 100
LRS	–	–	470	1 180	1 215

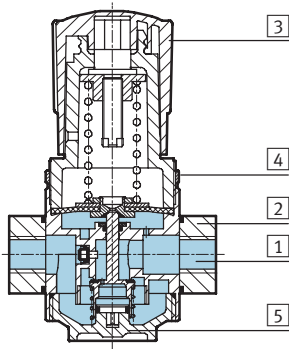
Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Materials

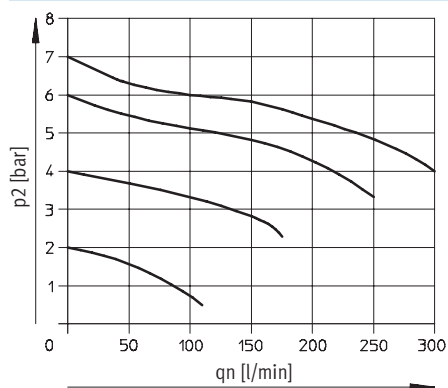
Sectional view



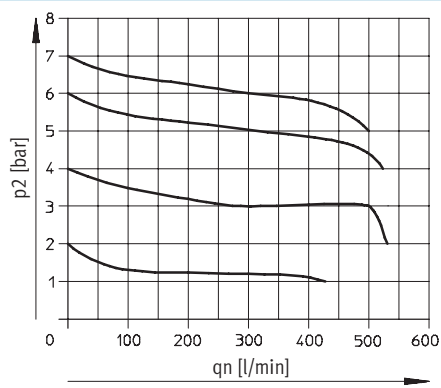
Pressure regulator	Micro	Mini/Midi/Maxi
1 Housing	Wrought aluminium alloy	Die-cast zinc/aluminium
2 Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
3 Regulating knob	Polyacetal	Polyacetal
4 Knurled nut	–	Aluminium
5 Plug cap	Polycarbonate	Polycarbonate
– Seals	Nitrile rubber	Nitrile rubber
Note on materials	–	Designs free of copper, PTFE and silicone → Ordering data

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

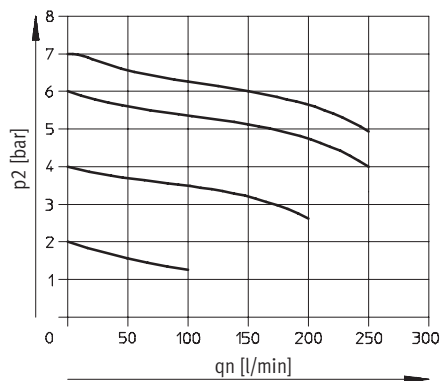
LR-M5-...-MICRO



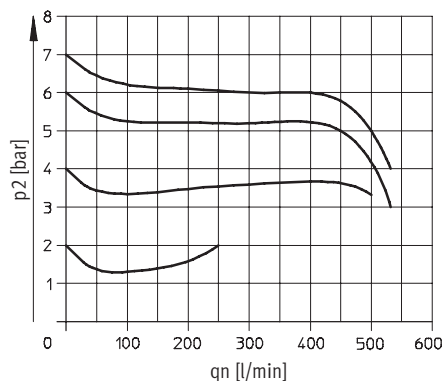
LR-M7-...-MICRO B



LR-QS4-...-MICRO



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



Primary pressure $p_1 = 10$ bar

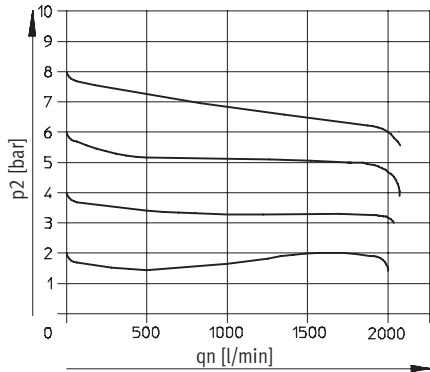
Pressure regulators LR/LRS, D series, metal design

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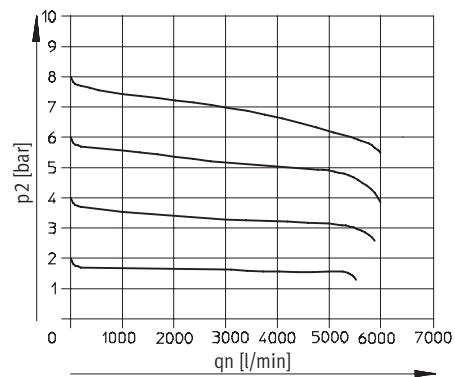
Technical data

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

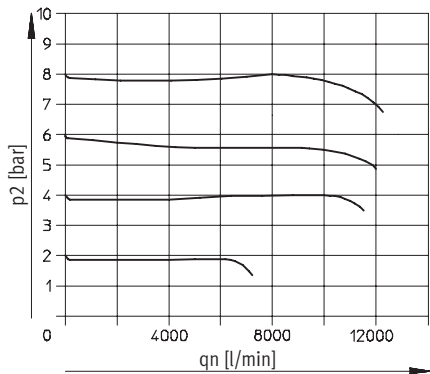
LR/LRS-1/4-D-MINI



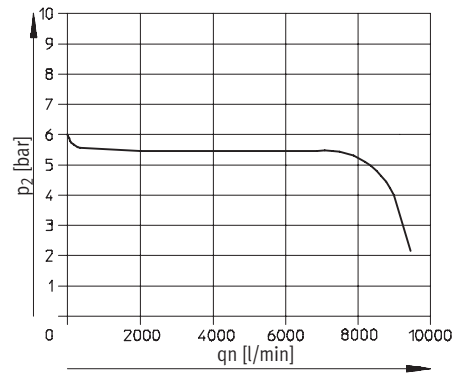
LR/LRS-1/2-D-MIDI



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.

Pressure regulators LR/LRS, D series, metal design

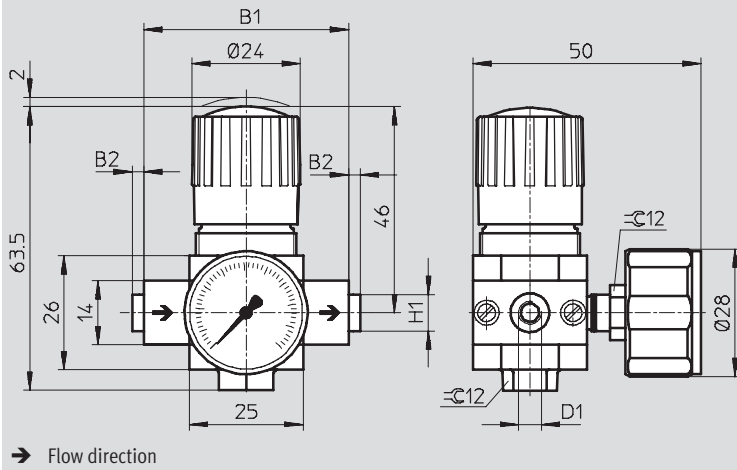
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Technical data

Dimensions

Download CAD data → www.festo.com

Micro



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	-	G1/8	-
LR-QS4-D-7-MICRO		~2.5	QS4	~8
LR-QS6-D-7-MICRO			QS6	~10

• • Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pressure regulators LR/LRS, D series, metal design

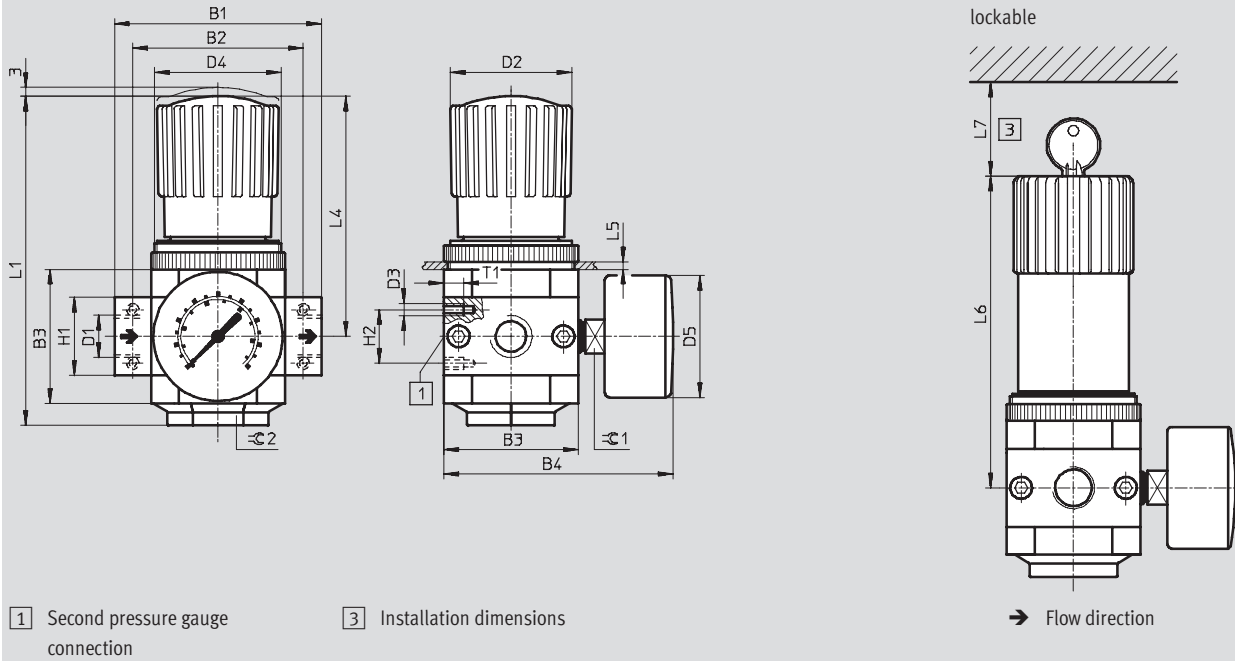
Technical data

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Dimensions

Download CAD data → www.festo.com

Mini/Midi/Maxi



Type	B1	B2	B3	B4	D1	D2 Ø	D3	D4	D5 Ø
Mini									
LR/LRS-1⁄8-D-(I)-MINI	64	52	40	76	G1⁄8	31	M4	M36x1.5	41
LR/LRS-1⁄4-D-(I)-MINI					G1⁄4				
LR/LRS-3⁄8-D-(I)-MINI	70				G3⁄8				
Midi									
LR/LRS-1⁄4-D-(I)-MIDI	85	70	55	95	G1⁄4	50	M5	M52x1.5	50
LR/LRS-3⁄8-D-(I)-MIDI					G3⁄8				
LR/LRS-1⁄2-D-(I)-MIDI					G1⁄2				
LR/LRS-3⁄4-D-(I)-MIDI					G3⁄4				
Maxi									
LR/LRS-1⁄2-D-MAXI	96	80	66	107	G1⁄2	31	M5	M36x1.5	50
LR/LRS-1⁄2-D-DI-MAXI						49		M52x1.5	
LR/LRS-3⁄4-D-MAXI					G3⁄4	31		M36x1.5	
LR/LRS-3⁄4-D-DI-MAXI						49		M52x1.5	
LR/LRS-1-D-MAXI	116	91			G1	31		M36x1.5	
LR/LRS-1-D-DI-MAXI						49		M52x1.5	

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pressure regulators LR/LRS, D series, metal design

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Technical data

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

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

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	526 261	LR-M5-D-7-MICRO
	M7	534 180	LR-M7-D-7-MICRO B
	With threaded connecting plates		
	G1/8	526 263	LR-1/8-D-7-MICRO
	With connecting plate and push-in fitting		
	QS4	526 269	LR-QS4-D-7-MICRO
	QS6	526 271	LR-QS6-D-7-MICRO
Without pressure gauge			
Micro	Without threaded connecting plates, connecting thread in housing		
	M5	526 262	LR-M5-D-O-7-MICRO
	M7	534 181	LR-M7-D-O-7-MICRO B
	With threaded connecting plates		
	G1/8	526 264	LR-1/8-D-O-7-MICRO
	With connecting plate and push-in fitting		
	QS4	526 270	LR-QS4-D-O-7-MICRO
	QS6	526 272	LR-QS6-D-O-7-MICRO

Ordering data					
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	G1/8	162 582	LR-1/8-D-7-MINI	159 624	LR-1/8-D-MINI
	G1/4	162 583	LR-1/4-D-7-MINI	159 625	LR-1/4-D-MINI
	G3/8	162 584	LR-3/8-D-7-MINI	162 580	LR-3/8-D-MINI
Midi	G1/4	186 453	LR-1/4-D-7-MIDI	186 451	LR-1/4-D-MIDI
	G3/8	162 585	LR-3/8-D-7-MIDI	159 580	LR-3/8-D-MIDI
	G1/2	162 586	LR-1/2-D-7-MIDI	159 581	LR-1/2-D-MIDI
	G3/4	162 587	LR-3/4-D-7-MIDI	162 581	LR-3/4-D-MIDI
Maxi	G1/2	186 457	LR-1/2-D-7-MAXI	186 455	LR-1/2-D-MAXI
	G3/4	162 588	LR-3/4-D-7-MAXI	159 626	LR-3/4-D-MAXI
	G1	162 589	LR-1-D-7-MAXI	159 627	LR-1-D-MAXI
Without pressure gauge					
Mini	G1/8	162 598	LR-1/8-D-7-O-MINI ¹⁾	162 590	LR-1/8-D-O-MINI ¹⁾
	G1/4	162 599	LR-1/4-D-7-O-MINI ¹⁾	162 591	LR-1/4-D-O-MINI ¹⁾
	G3/8	162 600	LR-3/8-D-7-O-MINI ¹⁾	162 592	LR-3/8-D-O-MINI ¹⁾
Midi	G1/4	186 454	LR-1/4-D-7-O-MIDI ¹⁾	186 452	LR-1/4-D-O-MIDI ¹⁾
	G3/8	162 601	LR-3/8-D-7-O-MIDI ¹⁾	162 593	LR-3/8-D-O-MIDI ¹⁾
	G1/2	162 602	LR-1/2-D-7-O-MIDI ¹⁾	162 594	LR-1/2-D-O-MIDI ¹⁾
	G3/4	162 603	LR-3/4-D-7-O-MIDI ¹⁾	162 595	LR-3/4-D-O-MIDI ¹⁾
Maxi	G1/2	186 458	LR-1/2-D-7-O-MAXI ¹⁾	186 456	LR-1/2-D-O-MAXI ¹⁾
	G3/4	162 604	LR-3/4-D-7-O-MAXI ¹⁾	162 596	LR-3/4-D-O-MAXI ¹⁾
	G1	162 605	LR-1-D-7-O-MAXI ¹⁾	162 597	LR-1-D-O-MAXI ¹⁾

1) Free of copper, PTFE and silicone

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Ordering data					
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					
Mini	G1⁄8	192 299	LR-1⁄8-D-7-I-MINI	192 298	LR-1⁄8-D-I-MINI
	G1⁄4	192 301	LR-1⁄4-D-7-I-MINI	192 300	LR-1⁄4-D-I-MINI
	G3⁄8	192 303	LR-3⁄8-D-7-I-MINI	192 302	LR-3⁄8-D-I-MINI
Midi	G1⁄4	192 311	LR-1⁄4-D-7-I-MIDI	192 310	LR-1⁄4-D-I-MIDI
	G3⁄8	192 313	LR-3⁄8-D-7-I-MIDI	192 312	LR-3⁄8-D-I-MIDI
	G1⁄2	192 315	LR-1⁄2-D-7-I-MIDI	192 314	LR-1⁄2-D-I-MIDI
	G3⁄4	192 317	LR-3⁄4-D-7-I-MIDI	192 316	LR-3⁄4-D-I-MIDI
Without pressure gauge					
Mini	G1⁄8	192 305	LR-1⁄8-D-7-O-I-MINI ¹⁾	192 304	LR-1⁄8-D-O-I-MINI ¹⁾
	G1⁄4	192 307	LR-1⁄4-D-7-O-I-MINI ¹⁾	192 306	LR-1⁄4-D-O-I-MINI ¹⁾
	G3⁄8	192 309	LR-3⁄8-D-7-O-I-MINI ¹⁾	192 308	LR-3⁄8-D-O-I-MINI ¹⁾
Midi	G1⁄4	192 319	LR-1⁄4-D-7-O-I-MIDI ¹⁾	192 318	LR-1⁄4-D-O-I-MIDI ¹⁾
	G3⁄8	192 321	LR-3⁄8-D-7-O-I-MIDI ¹⁾	192 320	LR-3⁄8-D-O-I-MIDI ¹⁾
	G1⁄2	192 323	LR-1⁄2-D-7-O-I-MIDI ¹⁾	192 322	LR-1⁄2-D-O-I-MIDI ¹⁾
	G3⁄4	192 325	LR-3⁄4-D-7-O-I-MIDI ¹⁾	192 324	LR-3⁄4-D-O-I-MIDI ¹⁾

1) Free of copper, PTFE and silicone

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	G½	192 358	LR-½-D-7-DI-MAXI	192 356	LR-½-D-DI-MAXI
	G¾	192 362	LR-¾-D-7-DI-MAXI	192 360	LR-¾-D-DI-MAXI
	G1	192 366	LR-1-D-7-DI-MAXI	192 364	LR-1-D-DI-MAXI
Without pressure gauge					
Maxi	G½	192 359	LR-½-D-7-O-DI-MAXI ¹⁾	192 357	LR-½-D-O-DI-MAXI ¹⁾
	G¾	192 363	LR-¾-D-7-O-DI-MAXI ¹⁾	192 361	LR-¾-D-O-DI-MAXI ¹⁾
	G1	192 367	LR-1-D-7-O-DI-MAXI ¹⁾	192 365	LR-1-D-O-DI-MAXI ¹⁾

1) Free of copper, PTFE and silicone

Pressure regulators LR/LRS, D series, metal design

FESTO

Technical data

Ordering data				
Pressure regulator, lockable				
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	G1/8	194 606	LRS-1/8-D-7-MINI	194 602 LRS-1/8-D-MINI
	G1/4	194 614	LRS-1/4-D-7-MINI	194 610 LRS-1/4-D-MINI
	G3/8	194 622	LRS-3/8-D-7-MINI	194 618 LRS-3/8-D-MINI
Midi	G1/4	194 630	LRS-1/4-D-7-MIDI	194 626 LRS-1/4-D-MIDI
	G3/8	194 638	LRS-3/8-D-7-MIDI	194 634 LRS-3/8-D-MIDI
	G1/2	194 646	LRS-1/2-D-7-MIDI	194 642 LRS-1/2-D-MIDI
	G3/4	194 656	LRS-3/4-D-7-MIDI	194 650 LRS-3/4-D-MIDI
Maxi	G1/2	194 660	LRS-1/2-D-7-MAXI	194 658 LRS-1/2-D-MAXI
	G3/4	194 662	LRS-3/4-D-7-MAXI	194 664 LRS-3/4-D-MAXI
	G1	194 668	LRS-1-D-7-MAXI	194 666 LRS-1-D-MAXI
Without pressure gauge				
Mini	G1/8	194 608	LRS-1/8-D-7-O-MINI	194 604 LRS-1/8-D-O-MINI
	G1/4	194 616	LRS-1/4-D-7-O-MINI	194 612 LRS-1/4-D-O-MINI
	G3/8	194 624	LRS-3/8-D-7-O-MINI	194 620 LRS-3/8-D-O-MINI
Midi	G1/4	194 632	LRS-1/4-D-7-O-MIDI	194 628 LRS-1/4-D-O-MIDI
	G3/8	194 640	LRS-3/8-D-7-O-MIDI	194 636 LRS-3/8-D-O-MIDI
	G1/2	194 648	LRS-1/2-D-7-O-MIDI	194 644 LRS-1/2-D-O-MIDI
	G3/4	194 654	LRS-3/4-D-7-O-MIDI	194 652 LRS-3/4-D-O-MIDI
Maxi	G1/2	194 661	LRS-1/2-D-7-O-MAXI	194 659 LRS-1/2-D-O-MAXI
	G3/4	194 663	LRS-3/4-D-7-O-MAXI	194 665 LRS-3/4-D-O-MAXI
	G1	194 669	LRS-1-D-7-O-MAXI	194 667 LRS-1-D-O-MAXI

Ordering data				
Pressure regulator with integrated return flow function, lockable				
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	G1⁄8	194 607	LRS-1⁄8-D-7-I-MINI	194 603 LRS-1⁄8-D-I-MINI
	G1⁄4	194 615	LRS-1⁄4-D-7-I-MINI	194 611 LRS-1⁄4-D-I-MINI
	G3⁄8	194 623	LRS-3⁄8-D-7-I-MINI	194 619 LRS-3⁄8-D-I-MINI
Midi	G1⁄4	194 631	LRS-1⁄4-D-7-I-MIDI	194 627 LRS-1⁄4-D-I-MIDI
	G3⁄8	194 639	LRS-3⁄8-D-7-I-MIDI	194 635 LRS-3⁄8-D-I-MIDI
	G1⁄2	194 647	LRS-1⁄2-D-7-I-MIDI	194 643 LRS-1⁄2-D-I-MIDI
	G3⁄4	194 657	LRS-3⁄4-D-7-I-MIDI	194 651 LRS-3⁄4-D-I-MIDI
Without pressure gauge				
Mini	G1⁄8	194 609	LRS-1⁄8-D-7-O-I-MINI	194 605 LRS-1⁄8-D-O-I-MINI
	G1⁄4	194 617	LRS-1⁄4-D-7-O-I-MINI	194 613 LRS-1⁄4-D-O-I-MINI
	G3⁄8	194 625	LRS-3⁄8-D-7-O-I-MINI	194 621 LRS-3⁄8-D-O-I-MINI
Midi	G1⁄4	194 633	LRS-1⁄4-D-7-O-I-MIDI	194 629 LRS-1⁄4-D-O-I-MIDI
	G3⁄8	194 641	LRS-3⁄8-D-7-O-I-MIDI	194 637 LRS-3⁄8-D-O-I-MIDI
	G1⁄2	194 649	LRS-1⁄2-D-7-O-I-MIDI	194 645 LRS-1⁄2-D-O-I-MIDI
	G3⁄4	194 655	LRS-3⁄4-D-7-O-I-MIDI	194 653 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, lockable					
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	G½	194 672	LRS-½-D-7-DI-MAXI	194 670	LRS-½-D-DI-MAXI
	G¾	194 676	LRS-¾-D-7-DI-MAXI	194 674	LRS-¾-D-DI-MAXI
	G1	194 680	LRS-1-D-7-DI-MAXI	194 678	LRS-1-D-DI-MAXI
Without pressure gauge					
Maxi	G½	194 673	LRS-½-D-7-O-DI-MAXI	194 671	LRS-½-D-O-DI-MAXI
	G¾	194 677	LRS-¾-D-7-O-DI-MAXI	194 675	LRS-¾-D-O-DI-MAXI
	G1	194 681	LRS-1-D-7-O-DI-MAXI	194 679	LRS-1-D-O-DI-MAXI

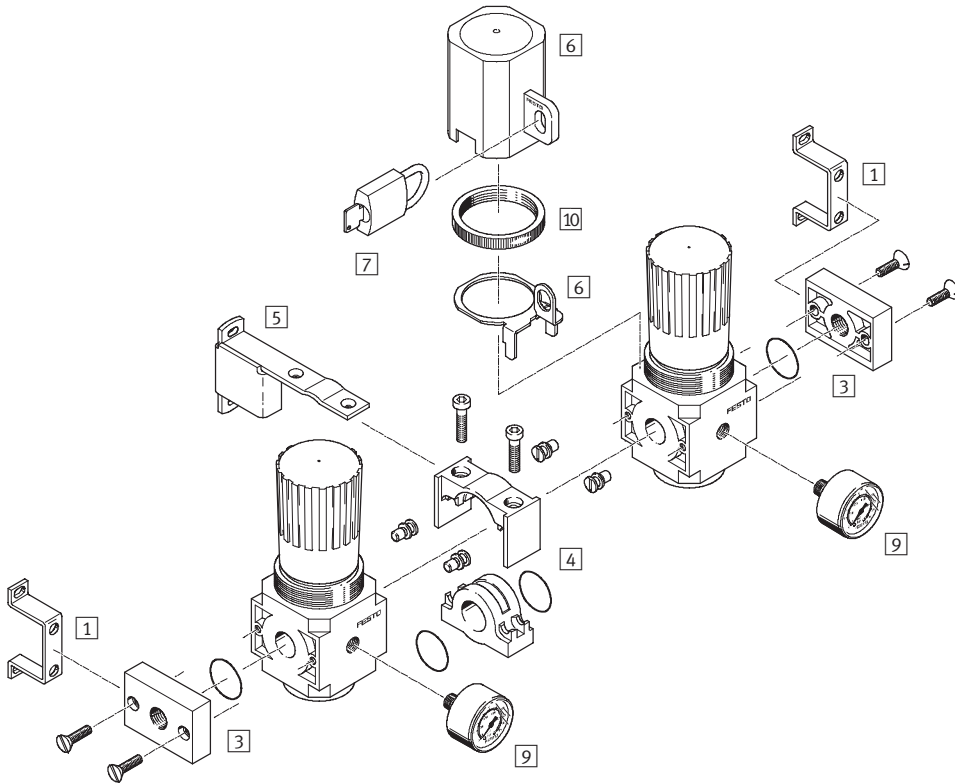
Pressure regulators LRB/LRBS, D series, metal design

Peripherals overview

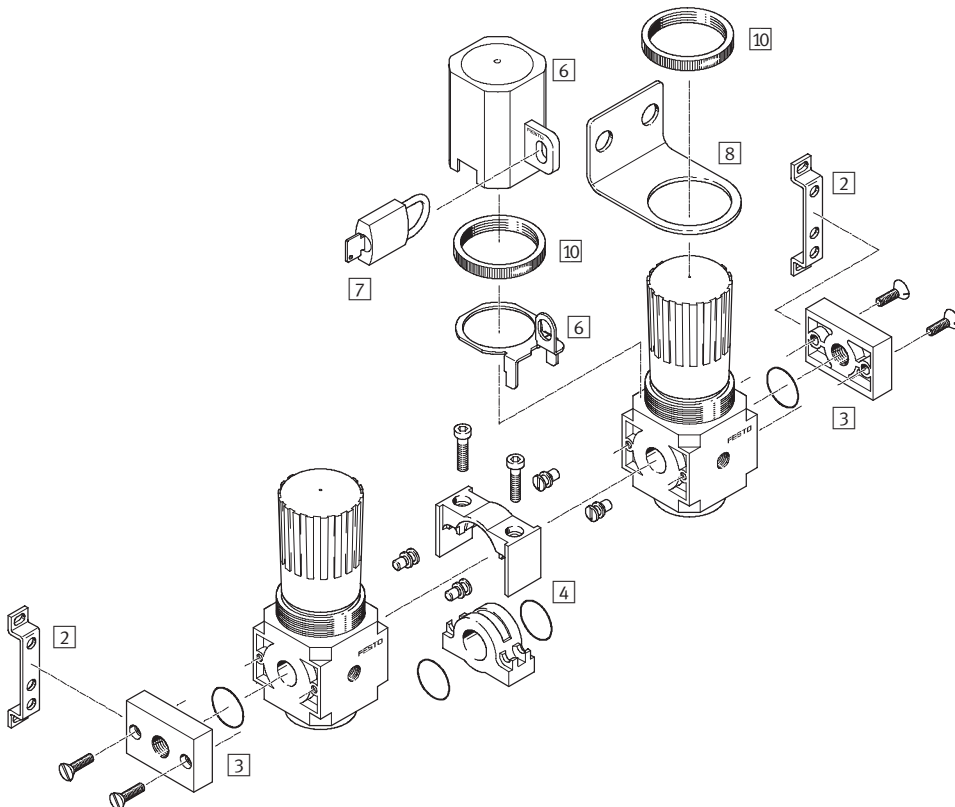
FESTO

Mini/Midi

Pressure regulator LRB – pressure output at rear



Pressure regulator LRB – pressure output at front



Pressure regulators LRB/LRBS, D series, metal design

Peripherals overview

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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.

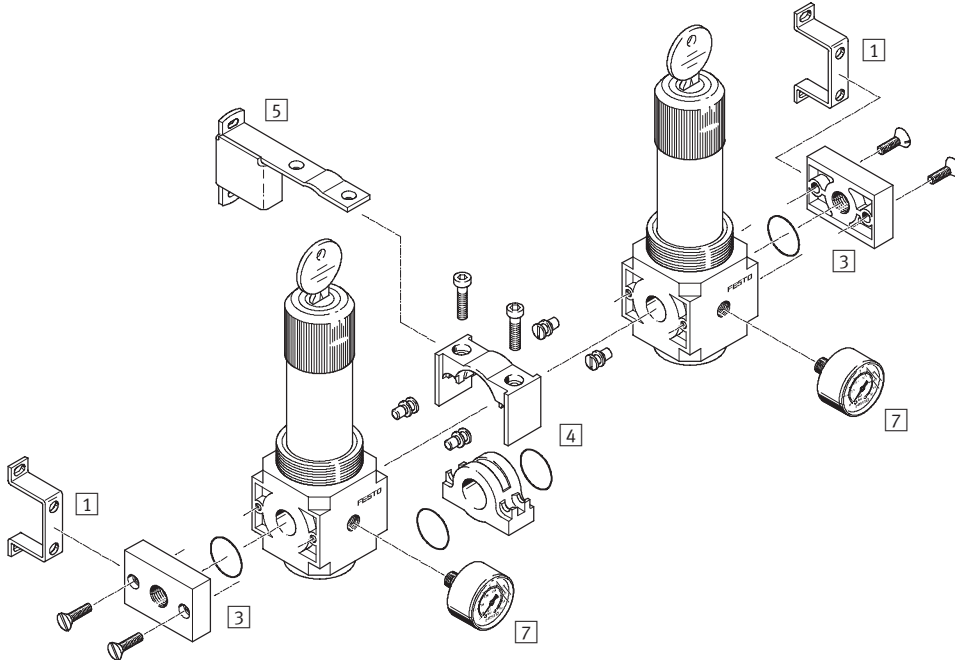
Pressure regulators LRB/LRBS, D series, metal design

Peripherals overview

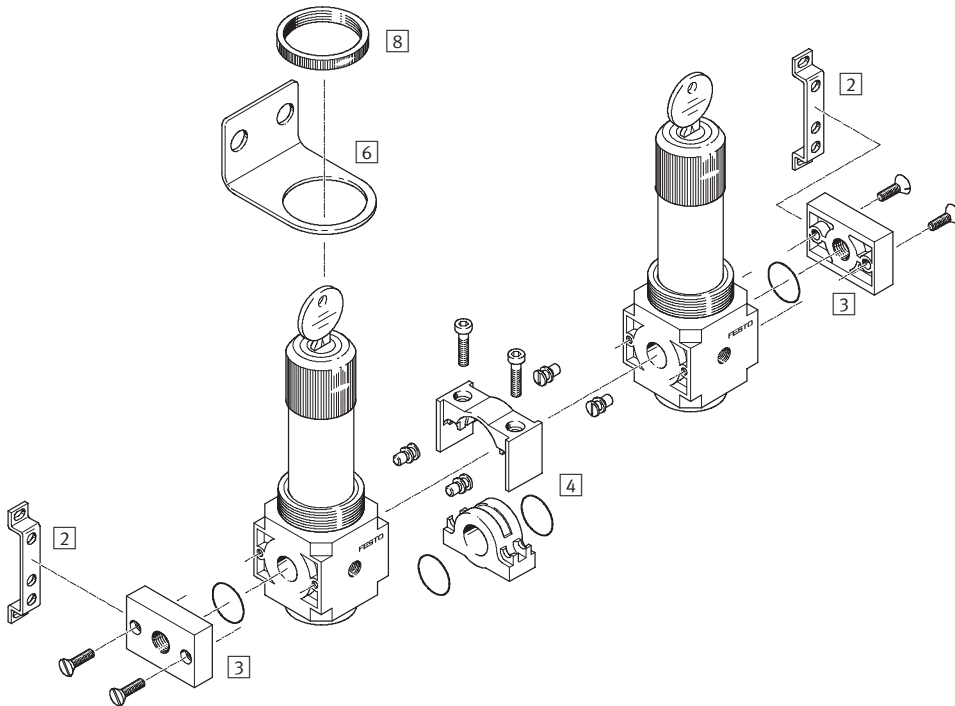
FESTO

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

Peripherals overview

FESTO

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

Type codes

FESTO

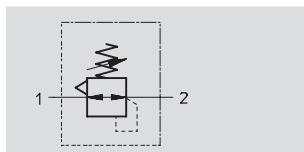
		LRB	–	D	–	7	–	0	–	MINI
Basic function										
LRB	Pressure regulator for manifold assembly									
LRBS	Pressure regulator for manifold assembly, lockable									
Series										
D	Series									
Pressure regulation range										
	0.5 ... 12 bar									
7	0.5 ... 7 bar									
Pressure gauge										
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
1600 ... 3800 l/min

- - Temperature range
-10 ... +60 °C

- - Input 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
- Directly actuated diaphragm regulator

General technical data				
Size	Mini		Midi	
Pneumatic connection 1 ¹⁾	G ¹ / ₄	G ³ / ₈	G ³ / ₈	G ¹ / ₂
Pneumatic connection 2	G ¹ / ₄		G ³ / ₈	
Operating medium	Compressed air, filtered, grade of filtration 40 µm			
Design	Directly actuated diaphragm regulator with through pressure supply			
Type of mounting	Via accessories			
	In-line installation			
Assembly position	Any			
Max. hysteresis [bar]	0.2			
Input pressure p ₁ [bar]	1 ... 16			
Pressure regulation range [bar]	0.5 ... 7			
	0.5 ... 12			
Pressure indication	G ¹ / ₈ prepared		G ¹ / ₄ prepared	

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

- - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate ¹⁾ q _N [l/min]		
Size	Mini	Midi
Pressure regulation range 0.5 ... 7 bar	1800	3800
Pressure regulation range 0.5 ... 12 bar	1600	3200

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

Ambient conditions		
Size	Mini	Midi
Ambient temperature [°C]	-10 ... +60 °C	
Temperature of medium [°C]	-10 ... +60 °C	
Corrosion resistance class 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 normal industrial environment or media such as coolants or lubricating agents.

Pressure regulators LRB/LRBS, D series, metal design

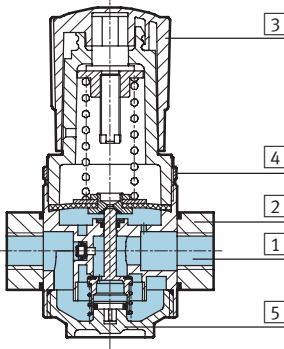
FESTO

Technical data

Weight [g]		
Size	Mini	Midi
Pressure regulator	250	700
Pressure regulator, lockable	350	940

Materials

Sectional view



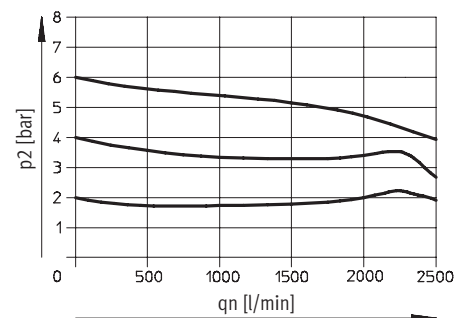
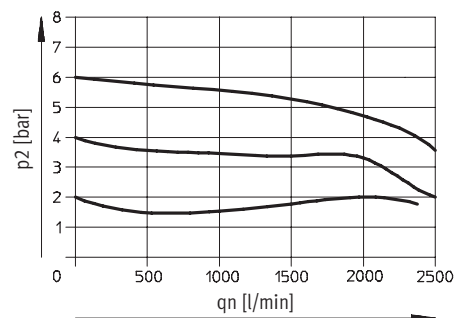
Pressure regulator		
1	Housing	Die-cast zinc
2	Connecting plates	Die-cast zinc
3	Regulating knob	Polyacetal
4	Knurled nut	Aluminium
5	Plug cap	Polycarbonate
–	Seals	Nitrile rubber
Note on materials		Free of copper, PTFE and silicone

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

Mini

Pressure regulation range 0.5 ... 7 bar

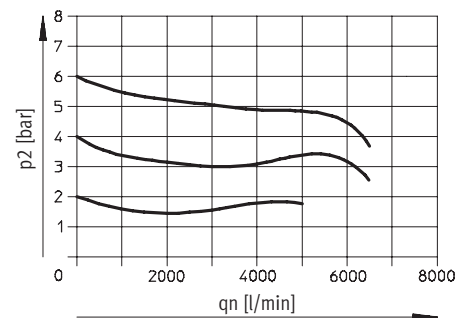
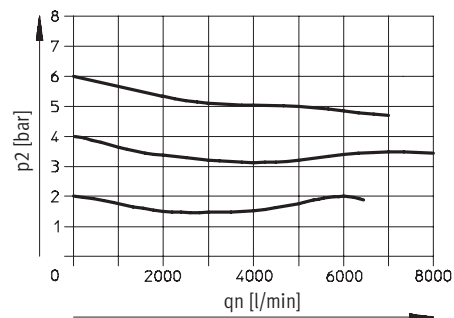
Pressure regulation range 0.5 ... 12 bar



Midi

Pressure regulation range 0.5 ... 7 bar

Pressure regulation range 0.5 ... 12 bar



Primary pressure $p_1 = 10$ bar

Pressure regulators LRB/LRBS, D series, metal design

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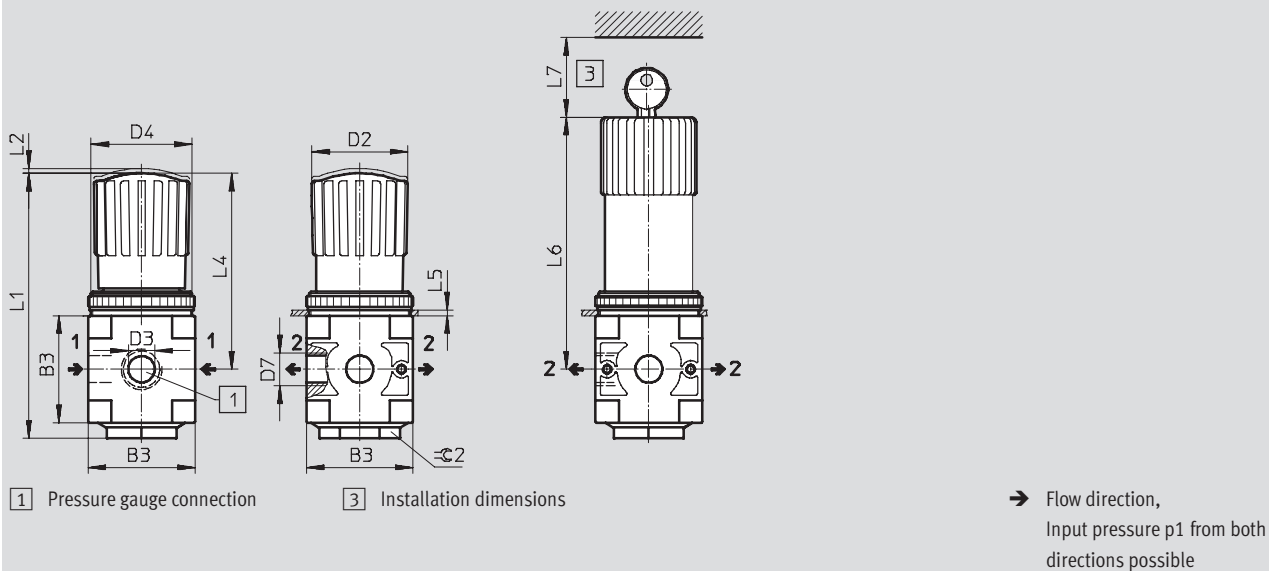
Technical data

Dimensions

Download CAD data → www.festo.com

Pressure regulator LRB

Pressure regulator, lockable LRBS



Type	B3	D2	D3	D4	D7	L1	L2	L4	L5 max.	L6	L7 min.	⊖ 2
Mini												
LRB-D-...-MINI	40	31	G $\frac{1}{8}$	M36x1.5	G $\frac{1}{4}$	~95.4	3	~68.9	3	98	60	17
LRBS-D-...-MINI												
Midi												
LRB-D-...-MIDI	55	50	G $\frac{1}{4}$	M52x1.5	G $\frac{3}{8}$	~135.8	3	~100.3	5	129.2	60	36
LRBS-D-...-MIDI												

• • Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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
Without pressure gauge				
Mini	197 534	LRB-D-7-O-MINI	197 535	LRB-D-O-MINI
Midi	197 538	LRB-D-7-O-MIDI	197 539	LRB-D-O-MIDI
Lockable				
Mini	194 683	LRBS-D-7-O-MINI	194 682	LRBS-D-O-MINI
Midi	194 687	LRBS-D-7-O-MIDI	194 686	LRBS-D-O-MIDI

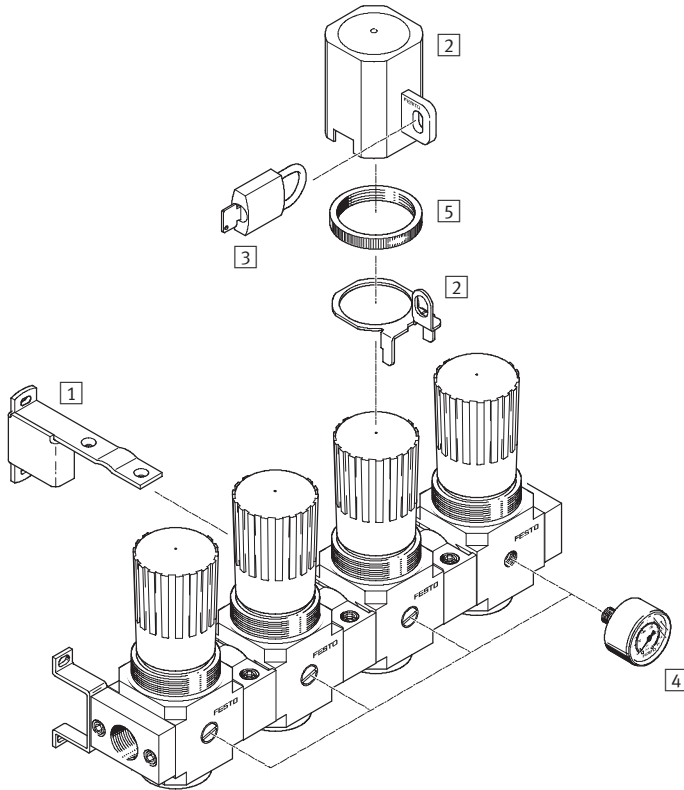
Pressure regulator combinations LRB-K, D series, metal design

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Peripherals overview

Mini/Midi

Pressure regulator combination LRB-K



Mounting attachments and accessories

	→ Page/ Internet
1 Mounting bracket HRBK ¹⁾	hrbk-d
2 Regulator lock LRVS	lrvs-d
3 Padlock LRVS-D	lrvs-d
4 Pressure gauge MA	52
5 Knurled nut (included in scope of delivery) HMR	–

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

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

FESTO

Type codes

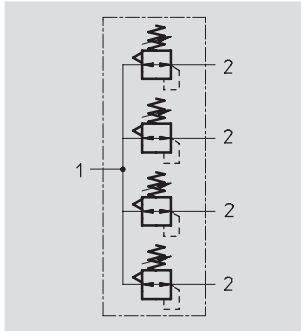
		LRB	–	1/4	–	D	–	7	–	0	–	K2	–	MINI
Basic function														
LRB	Pressure regulator combination													
Pneumatic connection														
1/4	Thread G1/4													
3/8	Thread G3/8													
1/2	Thread G1/2													
Series														
D	Series													
Pressure regulation range														
	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

FESTO

Technical data

Function



-  - Flow rate
1600 ... 3800 l/min
-  - Temperature range
-10 ... +60 °C
-  - Input 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	G¼	G⅜	G⅜	G½
Pneumatic connection 2	G¼		G⅜	
Operating medium	Compressed air, filtered, grade of filtration 40 µm			
Design	Directly actuated diaphragm regulator with through pressure supply			
Type of mounting	Via accessory (mounting bracket HRB or HRBK included in scope of delivery)			
Assembly position	Any			
Max. hysteresis	[bar]	0.2		
Input pressure p1	[bar]	1 ... 16		
Pressure regulation range	[bar]	0.5 ... 7		
		0.5 ... 12		
Pressure indication	G⅛ prepared		G¼ prepared	

-  - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate ¹⁾ q _N [l/min]		
Size	Mini	Midi
Pressure regulation range 0.5 ... 7 bar	1800	3800
Pressure regulation range 0.5 ... 12 bar	1600	3200

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

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

FESTO

Technical data

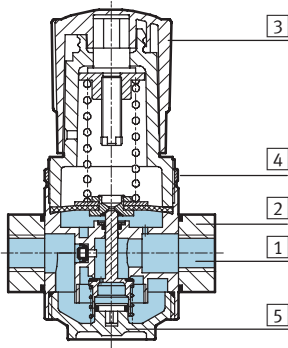
Ambient conditions		
Size	Mini	Midi
Ambient temperature [°C]	-10 ... +60 °C	
Temperature of medium [°C]	-10 ... +60 °C	
Corrosion resistance class CRC ¹⁾	2	

- 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 normal industrial environment or media such as coolants or lubricating agents.

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	4820

Materials

Sectional view



Pressure regulator	Mini/Midi
1 Housing	Die-cast zinc
2 Connecting plates	Die-cast zinc
3 Regulating knob	Polyacetal
4 Knurled nut	Aluminium
5 Plug cap	Polycarbonate
– Seals	Nitrile rubber

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

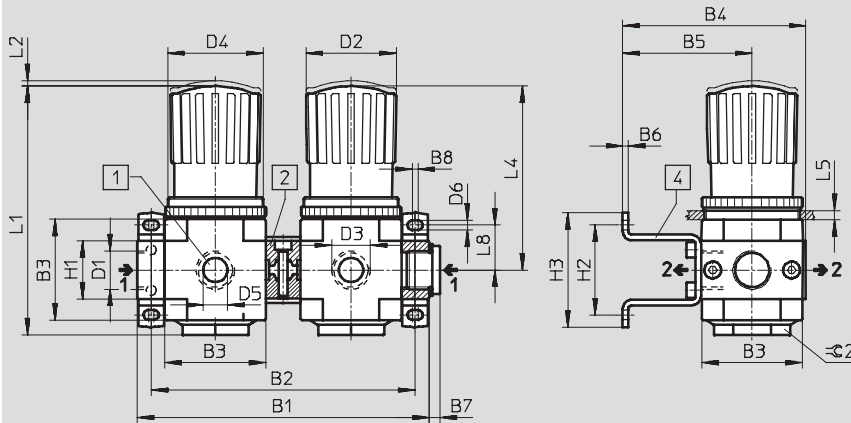
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Technical data

Dimensions

Download CAD data → www.festo.com

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



1 Pressure gauge connection

2 Connecting kit
HRBC-D-...

4 Mounting bracket HRB-D-...

→ 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	7.3	G1/4	31	G1/4	M36x1.5
LRB-3/8-D-...-K2-MINI	125								G3/8			
Midi												
LRB-3/8-D-...-K2-MIDI	159	~144	55	99.9	70.6	3	5	8.3	G3/8	50	G3/8	M52x1.5
LRB-1/2-D-...-K2-MIDI							6		G1/2			

Type	D5	D6	H1	H2 ±0.2	H3	L1	L2	L4	L5 max.	L8	≈ 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	62.3	~135.8	3	~100.3	5	31.2	36
LRB-1/2-D-...-K2-MIDI											

· || · Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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

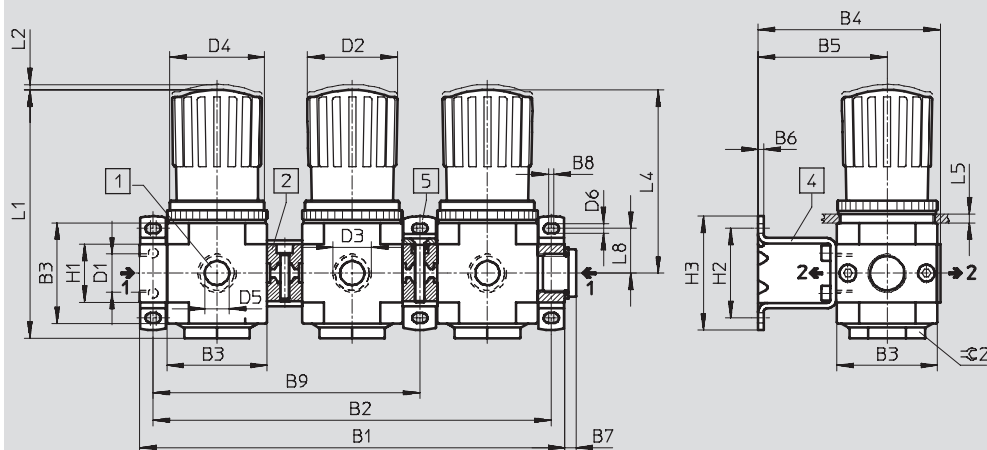
FESTO

Technical data

Dimensions

Download CAD data → www.festo.com

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



1 Pressure gauge connection

2 Connecting kit
HRBC-D-...

4 Mounting bracket HRB-D-...

5 Mounting bracket HRBK-D-...

→ Flow direction,
both directions possible

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	7.3	108.5	G1/4	31	G1/4	M36x1.5
LRB-3/8-D-...-K3-MINI	180									G3/8			
Midi													
LRB-3/8-D-...-K3-MIDI	233	~218	55	99.9	70.6	3	5	8.3	146	G3/8	50	G3/8	M52x1.5
LRB-1/2-D-...-K3-MIDI							6			G1/2			

Type	D5	D6	H1	H2 ±0.2	H3	L1	L2	L4	L5 max.	L8	≅ 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	62.3	~135.8	3	~100.3	5	31.2	36
LRB-1/2-D-...-K3-MIDI											

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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

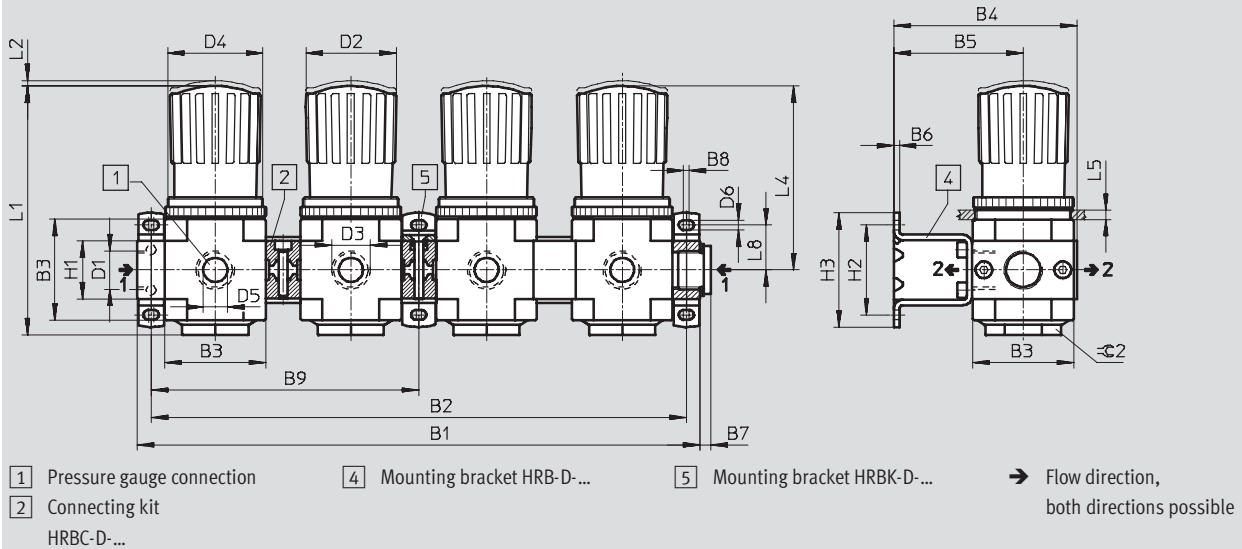
FESTO

Technical data

Dimensions

Download CAD data → www.festo.com

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



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	7.3	108.5	G1/4	31	G1/4	M36x1.5
LRB-3/8-D-...-K4-MINI	235									G3/8			
Midi													
LRB-3/8-D-...-K4-MIDI	307	~292	55	99.9	70.6	3	5	8.3	146	G3/8	50	G3/8	M52x1.5
LRB-1/2-D-...-K4-MIDI							6			G1/2			

Type	D5	D6	H1	H2 ±0.2	H3	L1	L2	L4	L5 max.	L8	⌀ 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	62.3	~135.8	3	~100.3	5	31.2	36
LRB-1/2-D-...-K4-MIDI											

• • • Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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

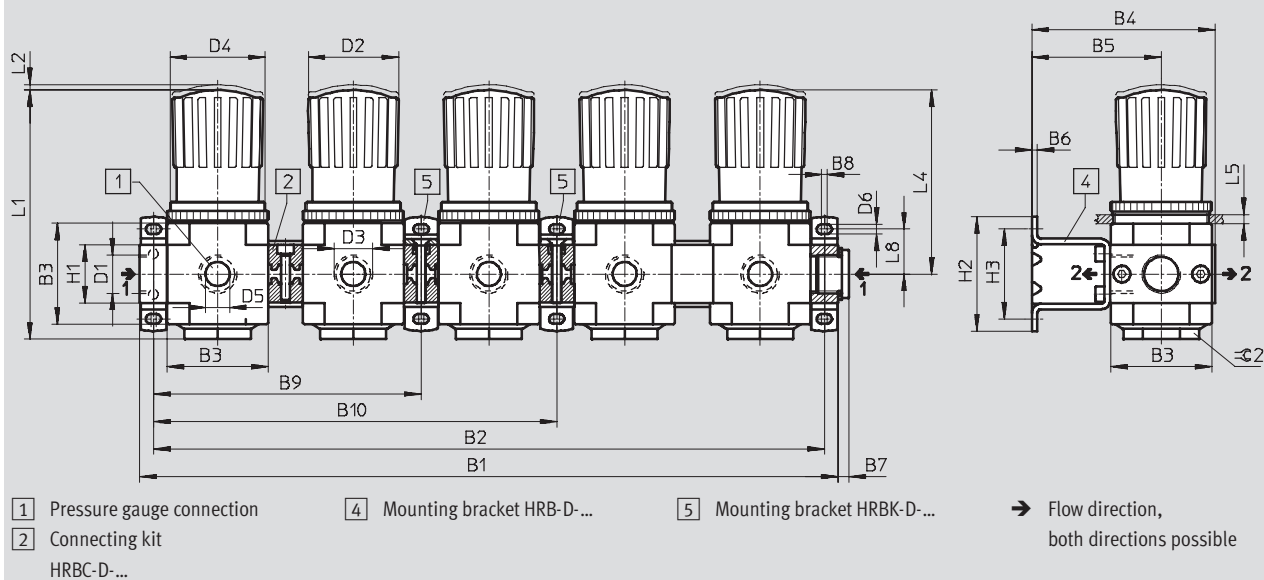
FESTO

Technical data

Dimensions

Download CAD data → www.festo.com

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



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	7.3	108.5	146	G1¼	31	G1¼	M36x1.5
LRB-3/8-D-...-K5-MINI	290										G3/8			
Midi														
LRB-3/8-D-...-K5-MIDI	381	~366	55	99.9	70.6	3	5	8.3	146	186	G3/8	50	G3/8	M52x1.5
LRB-1/2-D-...-K5-MIDI							6				G1½			

Type	D5	D6	H1	H2 ±0.2	H3	L1	L2	L4	L5 max.	L8	≈ 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	62.3	~135.8	3	~100.3	5	31.2	36
LRB-1/2-D-...-K5-MIDI											

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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	Part No.	Type
Manifold with 2 pressure regulators					
Mini	G $\frac{1}{4}$	528 952	LRB- $\frac{1}{4}$ -D-7-O-K2-MINI	528 954	LRB- $\frac{1}{4}$ -D-O-K2-MINI
	G $\frac{3}{8}$	528 953	LRB- $\frac{3}{8}$ -D-7-O-K2-MINI	528 955	LRB- $\frac{3}{8}$ -D-O-K2-MINI
Midi	G $\frac{3}{8}$	528 956	LRB- $\frac{3}{8}$ -D-7-O-K2-MIDI	528 958	LRB- $\frac{3}{8}$ -D-O-K2-MIDI
	G $\frac{1}{2}$	528 957	LRB- $\frac{1}{2}$ -D-7-O-K2-MIDI	528 959	LRB- $\frac{1}{2}$ -D-O-K2-MIDI
Manifold with 3 pressure regulators					
Mini	G $\frac{1}{4}$	528 968	LRB- $\frac{1}{4}$ -D-7-O-K3-MINI	528 970	LRB- $\frac{1}{4}$ -D-O-K3-MINI
	G $\frac{3}{8}$	528 969	LRB- $\frac{3}{8}$ -D-7-O-K3-MINI	528 971	LRB- $\frac{3}{8}$ -D-O-K3-MINI
Midi	G $\frac{3}{8}$	528 972	LRB- $\frac{3}{8}$ -D-7-O-K3-MIDI	528 974	LRB- $\frac{3}{8}$ -D-O-K3-MIDI
	G $\frac{1}{2}$	528 973	LRB- $\frac{1}{2}$ -D-7-O-K3-MIDI	528 975	LRB- $\frac{1}{2}$ -D-O-K3-MIDI
Manifold with 4 pressure regulators					
Mini	G $\frac{1}{4}$	528 984	LRB- $\frac{1}{4}$ -D-7-O-K4-MINI	528 986	LRB- $\frac{1}{4}$ -D-O-K4-MINI
	G $\frac{3}{8}$	528 985	LRB- $\frac{3}{8}$ -D-7-O-K4-MINI	528 987	LRB- $\frac{3}{8}$ -D-O-K4-MINI
Midi	G $\frac{3}{8}$	528 988	LRB- $\frac{3}{8}$ -D-7-O-K4-MIDI	528 990	LRB- $\frac{3}{8}$ -D-O-K4-MIDI
	G $\frac{1}{2}$	528 989	LRB- $\frac{1}{2}$ -D-7-O-K4-MIDI	528 991	LRB- $\frac{1}{2}$ -D-O-K4-MIDI
Manifold with 5 pressure regulators					
Mini	G $\frac{1}{4}$	529 000	LRB- $\frac{1}{4}$ -D-7-O-K5-MINI	529 002	LRB- $\frac{1}{4}$ -D-O-K5-MINI
	G $\frac{3}{8}$	529 001	LRB- $\frac{3}{8}$ -D-7-O-K5-MINI	529 003	LRB- $\frac{3}{8}$ -D-O-K5-MINI
Midi	G $\frac{3}{8}$	529 004	LRB- $\frac{3}{8}$ -D-7-O-K5-MIDI	529 006	LRB- $\frac{3}{8}$ -D-O-K5-MIDI
	G $\frac{1}{2}$	529 005	LRB- $\frac{1}{2}$ -D-7-O-K5-MIDI	529 007	LRB- $\frac{1}{2}$ -D-O-K5-MIDI

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

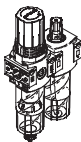
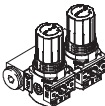
Technical data

FESTO

Pressure regulators LR/LRB, D series, polymer

FESTO

Product range overview D series service units, polymer

Type		Size	Pneumatic connection			Pressure regulation range [bar]	Grade of filtration [µm]	
			G1/8	G1/4	G1/2		5	40
Service units								
FRC		Mini	■	■	–	■	■	■
Individual devices								
Filter regulators LFR		Mini	■	■	–	■	■	■
Pressure regulators LR		Mini	■	■	–	■	–	–
Pressure regulator combinations LRB-K		Mini	–	–	■	■	–	–

Pressure regulators LR/LRB, D series, polymer

Product range overview D series service units, polymer

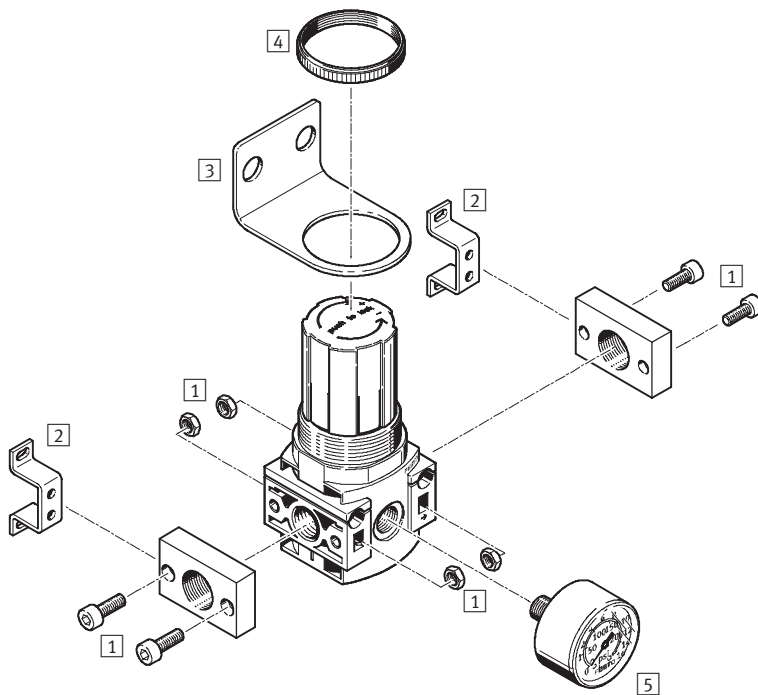
FESTO

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

Pressure regulators LR, D series, polymer

Peripherals overview

FESTO



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

FESTO

Type codes

	LR	–	1/8	–	DB	–	7	–	0	–	MINI
Basic function											
LR	Pressure regulator										
Pneumatic connection											
1/8	Thread G1/8										
1/4	Thread G1/4										
Series											
DB	Series										
Pressure regulation range											
7	0.5 ... 7 bar										
Pressure gauge											
	With pressure gauge										
0	Without pressure gauge										
Size											
	MINI										

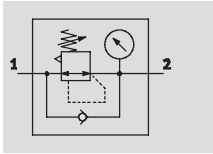
Pressure regulators LR, D series, polymer

Technical data

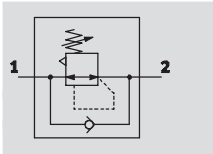
FESTO

Function

with pressure gauge



without pressure gauge



-  - Flow rate
800 ... 1300 l/min
-  - Temperature range
-5 ... +50 °C
-  - Input pressure
1.5 ... 10 bar



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

General technical data				
Size	Mini			
	With pressure gauge		Without pressure gauge	
Pneumatic connection	G1/8	G1/4	G1/8	G1/4
Operating medium	Compressed air			
Design	Pressure regulator with pressure gauge		Pressure regulator without 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			
Max. hysteresis	[bar]	0.5		
Input pressure	[bar]	1.5 ... 10		
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⁾ qnN [l/min]		
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Mini		
Pressure regulation range 0.5 ... 7 bar	≥ 800	≥ 1300

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

Pressure regulators LR, D series, polymer

FESTO

Technical data

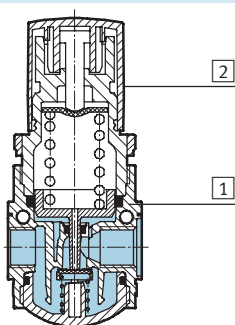
Ambient conditions		
Size		Mini
Ambient temperature	[°C]	-5 ... +50
Temperature of medium	[°C]	-5 ... +50
Corrosion resistance class	CRC ¹⁾	1

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

Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

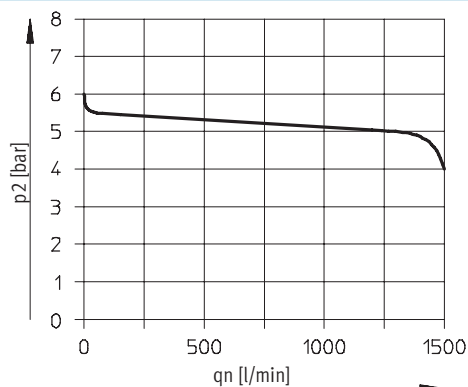
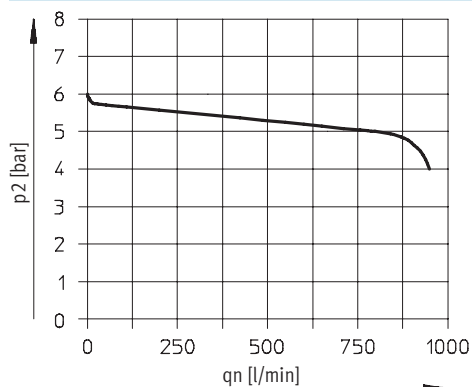
Weight [g]	
Size	Mini
Pressure regulator	150

Materials	
Sectional view	



Pressure regulator		Mini
1	Housing	Polyamide, reinforced
2	Rotary knob	Polyacetate
–	Seals	Nitrile rubber

Standard flow rate qn as a function of output pressure p2	
Pneumatic connection G1/8	Pneumatic connection G1/4



Primary pressure p1 = 10 bar

 Note
In order to improve control behaviour, primary-pressure dependent internal air consumption is provided.

Pressure regulators LR, D series, polymer

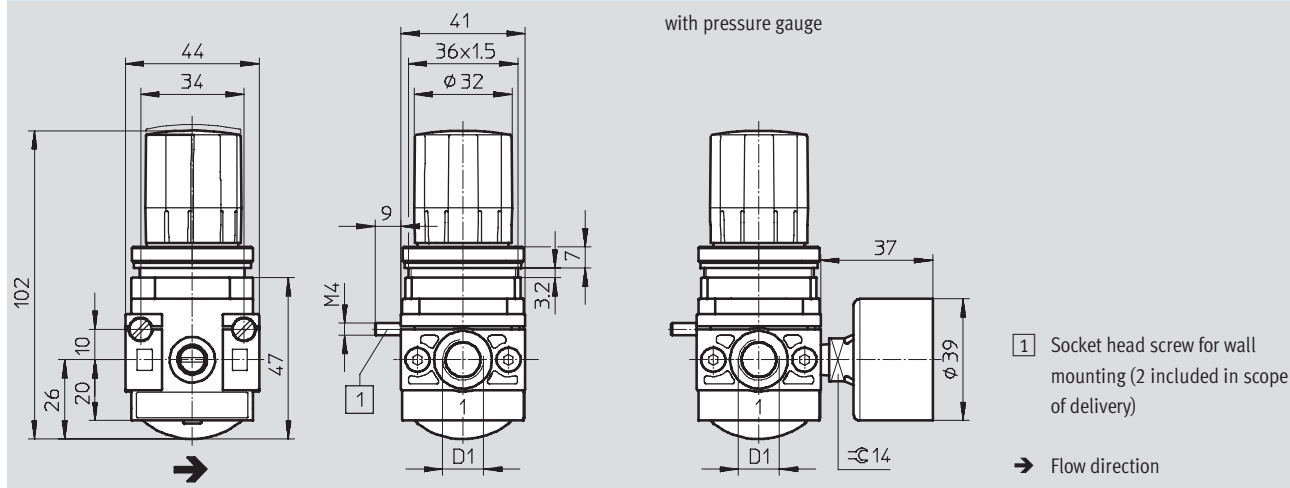
Technical data

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Dimensions

Download CAD data → www.festo.com

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	539 681	LR-1/8-DB-7-MINI
	G1/4	539 682	LR-1/4-DB-7-MINI
Without pressure gauge			
Mini	G1/8	537 642	LR-1/8-DB-7-O-MINI
	G1/4	537 643	LR-1/4-DB-7-O-MINI

Pressure regulator combinations LRB-K, D series, polymer

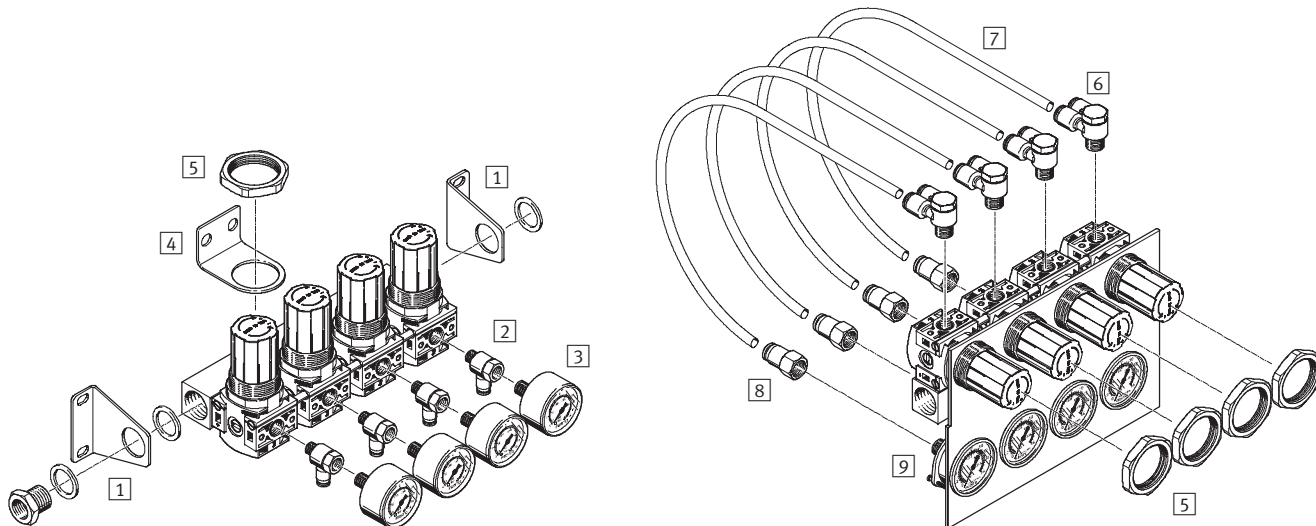
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Peripherals overview

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

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Type codes

		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														

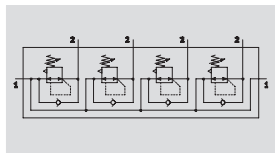
Pressure regulator combinations LRB-K, D series, polymer

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Technical data

Function

without pressure gauge



-  - Flow rate
1000 l/min
-  - Temperature range
-5 ... +50 °C
-  - Input 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	
Operating medium	Compressed air	
Regulating functions	Output pressure constant	
	With return flow function	
	With secondary venting	
Design	Directly actuated piston regulator	
	On P-manifold	
Type of mounting	Front panel mounting	
	Via accessories	
Assembly position	Any	
Max. hysteresis [bar]	0.5	
Input pressure [bar]	1.5 ... 10	
Pressure regulation range [bar]	0.5 ... 7	

Standard nominal flow rate ¹⁾ qnN [l/min]		
Size	Mini	
Pressure regulation range 0.5 ... 7 bar	≥ 1000	

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

Ambient conditions		
Ambient temperature [°C]	-5 ... +50	
Temperature of medium [°C]	-5 ... +50	
Corrosion resistance class CRC ¹⁾	1	

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Pressure regulator combinations LRB-K, D series, polymer

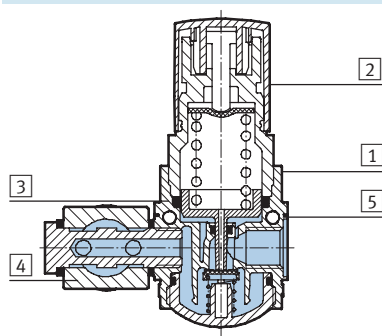
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Technical data

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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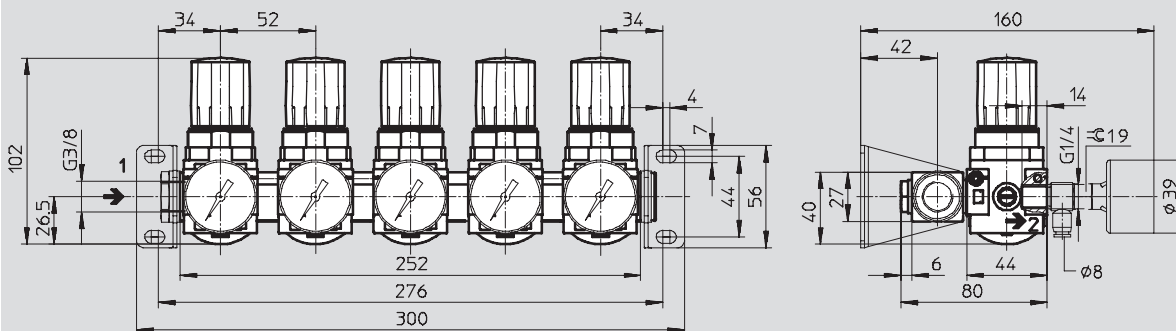
Technical data

Dimensions

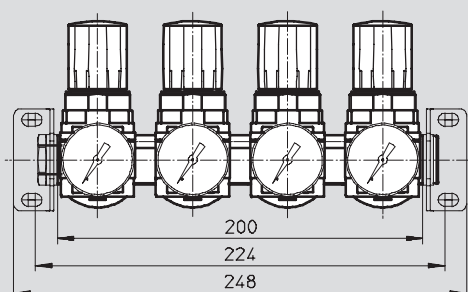
Download CAD data → www.festo.com

With mounting bracket

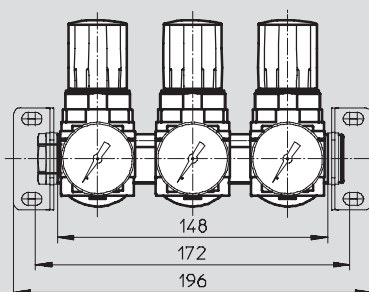
LRB-...-K5



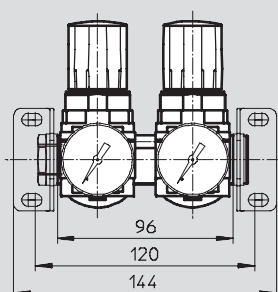
LRB-...-K4



LRB-...-K3



LRB-...-K2



→ Flow direction

Pressure regulator combinations LRB-K, D series, polymer

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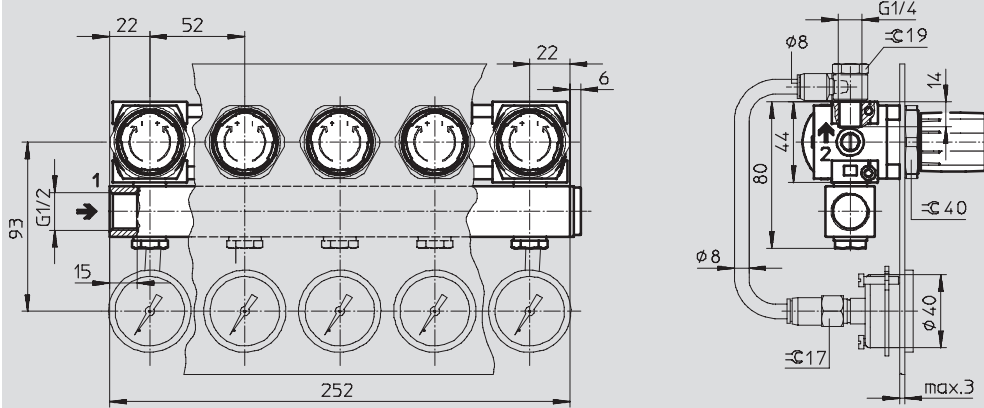
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Dimensions

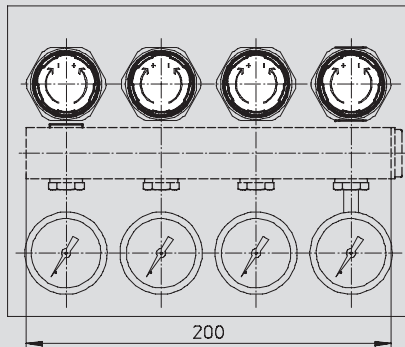
Download CAD data → www.festo.com

Front panel mounting

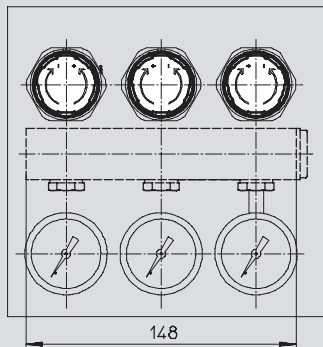
LRB-...-K5



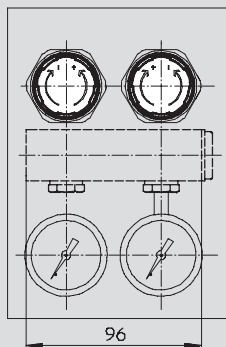
LRB-...-K4



LRB-...-K3



LRB-...-K2



→ Flow direction

Pressure regulator combinations LRB-K, D series, polymer

FESTO

Technical data

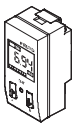
Ordering data			
Size	Connection	Pressure regulation range 0.5 ... 7 bar	
		Part No.	Type
Manifold with 2 pressure regulators			
Mini	G1/4	540 040	LRB-1/4-DB-7-O-K2-MINI
Manifold with 3 pressure regulators			
Mini	G1/4	540 041	LRB-1/4-DB-7-O-K3-MINI
Manifold with 4 pressure regulators			
Mini	G1/4	540 042	LRB-1/4-DB-7-O-K4-MINI
Manifold with 5 pressure regulators			
Mini	G1/4	540 043	LRB-1/4-DB-7-O-K5-MINI

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

FESTO

Accessories

Ordering data – Pressure gauge MA						
	Nominal size	Pneumatic connection	Indicating range		Part No.	Type
			[bar]	[psi]		
	Pressure gauge MA					Technical data ➔ Internet: ma
	27	M5	0 ... 10	–	526 323	MA-27-10-M5
	40	G1/8	0 ... 10	0 ... 145	359 874	MA-40-10-1/4
			0 ... 16	0 ... 232	345 395	MA-40-16-1/4
	50	G1/4	0 ... 10	0 ... 145	359 873	MA-50-10-1/4
			0 ... 16	0 ... 232	356 759	MA-50-16-1/4
	Pressure gauge MA, DIN EN 837-1					Technical data ➔ Internet: ma
	40	R1/8	0 ... 10	0 ... 145	162 835	MA-40-10-1/8-EN
		G1/4	0 ... 10	0 ... 145	183 900	MA-40-10-G1/4-EN
	Flanged pressure gauge FMA, DIN EN 837-1					Technical data ➔ Internet: fma
	40	G1/4	0 ... 10	0 ... 145	159 596	FMA-40-10-1/4-EN
			0 ... 16	0 ... 232	159 597	FMA-40-16-1/4-EN
	50	G1/4	0 ... 10	0 ... 145	159 599	FMA-50-10-1/4-EN
			0 ... 16	0 ... 232	159 600	FMA-50-16-1/4-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 R1/8	1 switch output PNP	M8x1, 3-pin	LCD	192 026	SDE1-D10-G2-R18-C-P1-M8
		2 switch outputs PNP	M8x1, 4-pin	LCD	192 027	SDE1-D10-G2-R18-C-P2-M8
	Male thread R1/4	1 switch output PNP	M8x1, 3-pin	LCD	192 028	SDE1-D10-G2-R14-C-P1-M8
		2 switch outputs PNP	M8x1, 4-pin	LCD	192 029	SDE1-D10-G2-R14-C-P2-M8

Ordering data – Push-in fitting						
	Pneumatic connection	Tubing O.D.	Part No.	Type	PU ¹⁾	
Push-in fitting QSF, female thread with external hex						Technical data → Internet: qsf
	G1/4	8	153 026	QSF-1/4-8-B	10	
Push-in T-fitting QSTF, 360° rotatable, with male and female thread						Technical data → Internet: qstf
	G1/4	8	186 203	QSTF-G1/4-8	1	
Push-in Y-fitting QSYLV, 360° rotatable, male thread with external hex						Technical data → Internet: qsyv
	G1/4	8	186 210	QSYLV-G1/4-8	1	

1) Packaging unit quantity