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Pressure regulator LR, LRS

FESTO



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Characteristics

At a glance

- Also suitable for front panel mounting
- Two pressure gauge connections for variable installation
- Good regulation characteristics with minimal pressure hysteresis
- High flow rate performance
- Two pressure control ranges: 0.5 ... 7 bar and 0.5 ... 12 bar
- Setting values are secured by locking the rotary knob
- Return flow option for exhausting from output 2 to input 1 already integrated
- Optional pressure sensor

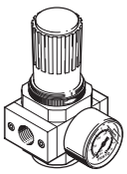
Version

[D]	D series, metal

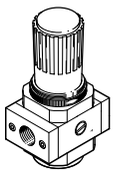
Sturdy in full metal design for the specific requirements of the process automation industry

Pressure gauge

[_]	With pressure gauge

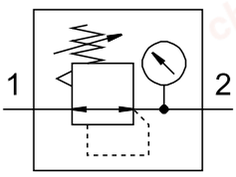


[O]	Without pressure gauge



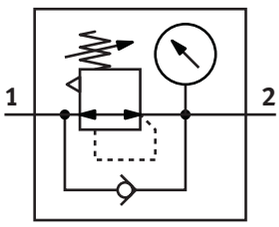
Additional function

[_]	None



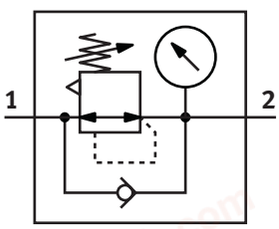
With pressure gauge

[I]	With integrated non-return function



With pressure gauge

[DI]	Directly actuated pressure regulator with integrated return flow function



With pressure gauge

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Type code

001	Series	
LR	Pressure regulator	
LRS	Pressure regulator, lockable	

002	Pneumatic connection	
	None	
1/8	Female thread G1/8	
1/4	Female thread G1/4	
3/8	Female thread G3/8	
1/2	Female thread G1/2	
3/4	Female thread G3/4	
1	Female thread G1	

003	Version	
D	D series, metal	

004	Pressure regulation range	
	0.5 ... 12 bar (0.05 ... 1.2 MPa)	
7	0.5 ... 7 bar (0.05 ... 0.7 MPa)	

005	Pressure gauge	
	With pressure gauge	
O	Without pressure gauge	

006	Additional function	
	None	
I	With integrated non-return function	
DI	Directly actuated pressure regulator with integrated return flow function	

007	Size	
MINI	Grid dimension 40 mm (without connecting plates)	
MIDI	Grid dimension 55 mm (without connecting plates)	
MAXI	Grid dimension 66 mm (without connecting plates)	

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Datasheet

General technical data

Pneumatic connection, port 1	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Pneumatic connection, port 2	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Size	Mini	Midi, Mini		Maxi, Midi		Maxi
Design	Directly actuated diaphragm regulator			Directly actuated diaphragm regulator Piloted piston regulator		
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function					
Type of mounting	Front panel mounting In-line installation With accessories					
Mounting position	optional					
Actuator lock	Rotary knob with detent Rotary knob with integrated lock					
Pressure regulation range	0.5 ... 12 bar					
Max. pressure hysteresis	0.2 bar			0.2 ... 0.4 bar		0.4 bar
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	Prepared for G1/8 With pressure gauge	Prepared for G1/4 Prepared for G1/8 With pressure gauge		Prepared for G1/4 With pressure gauge		

Operating and environmental conditions

Operating pressure	0 ... 1.6 MPa
Operating pressure	0 ... 16 bar
Operating pressure	0 ... 232 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Corrosion resistance class CRC [1)]	2 - Moderate corrosion stress

1) More information www.festo.com/x/topic/crc

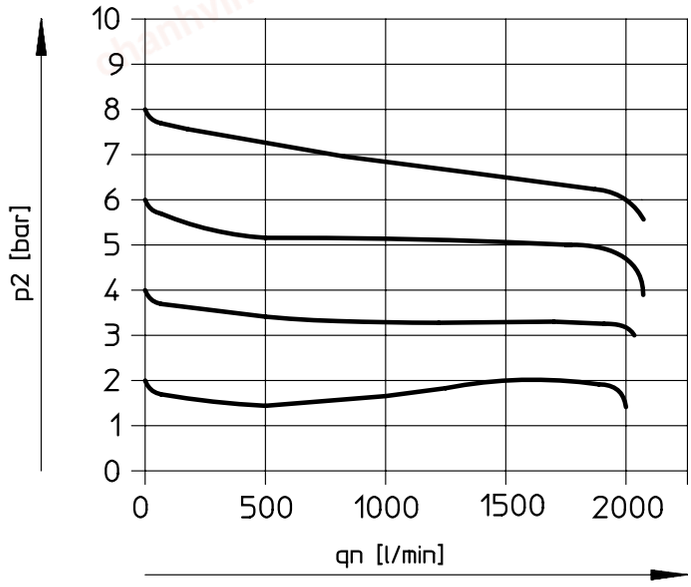
Materials

Material housing	Die-cast zinc
Material membrane	NBR
Material sub-base	Die-cast zinc
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

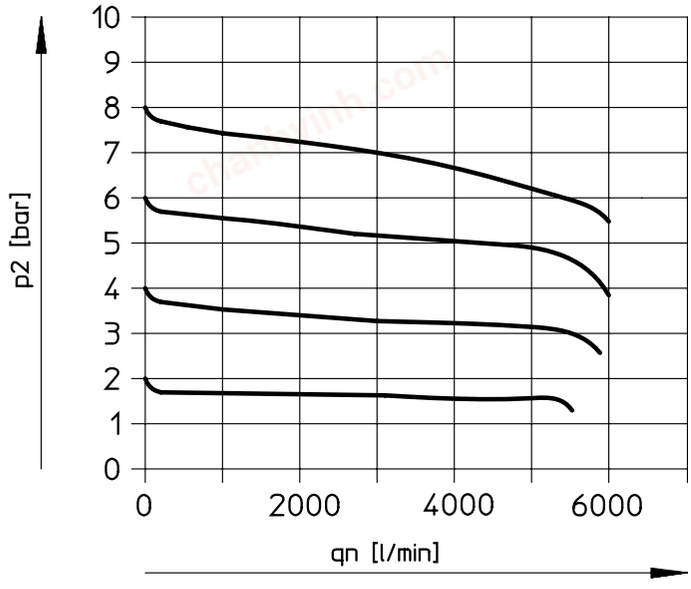
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Datasheet

Standard flow rate qn as a function of output pressure p2 (p1 = 10 bar) – LR/LRS-1/4-D-MINI

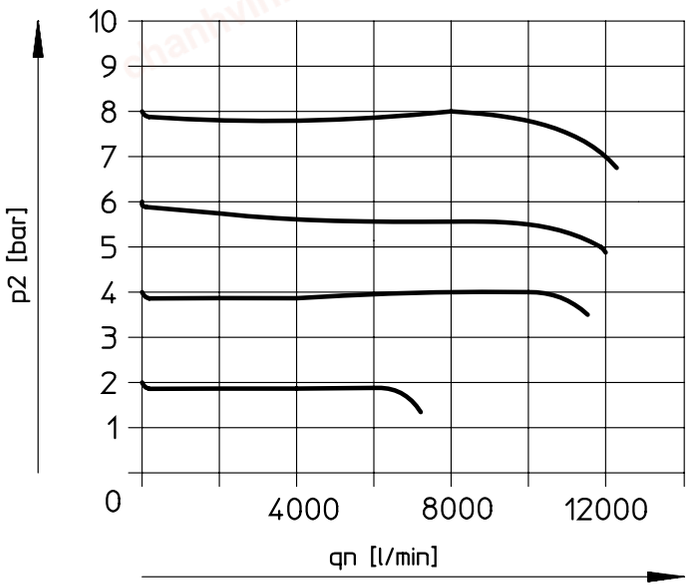


Standard flow rate qn as a function of output pressure p2 (p1 = 10 bar) – LR/LRS-1/2-D-MIDI

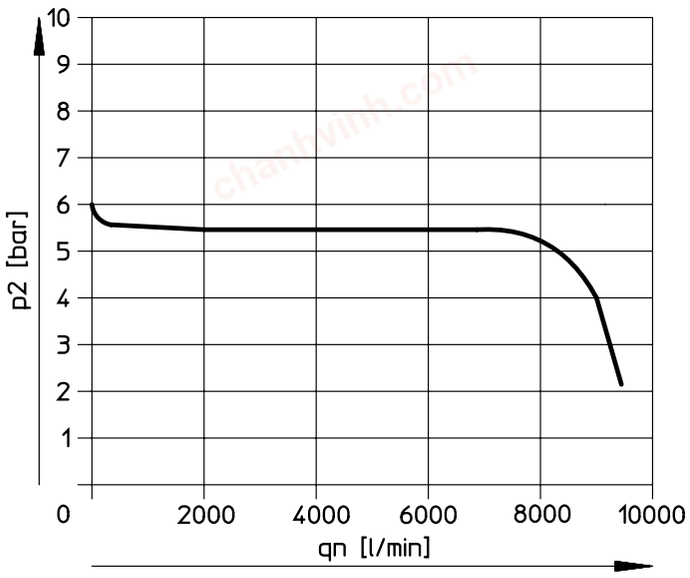


Datasheet

Standard flow rate qn as a function of output pressure p2 (p1 = 10 bar) – LR/LRS-1-D-MAXI



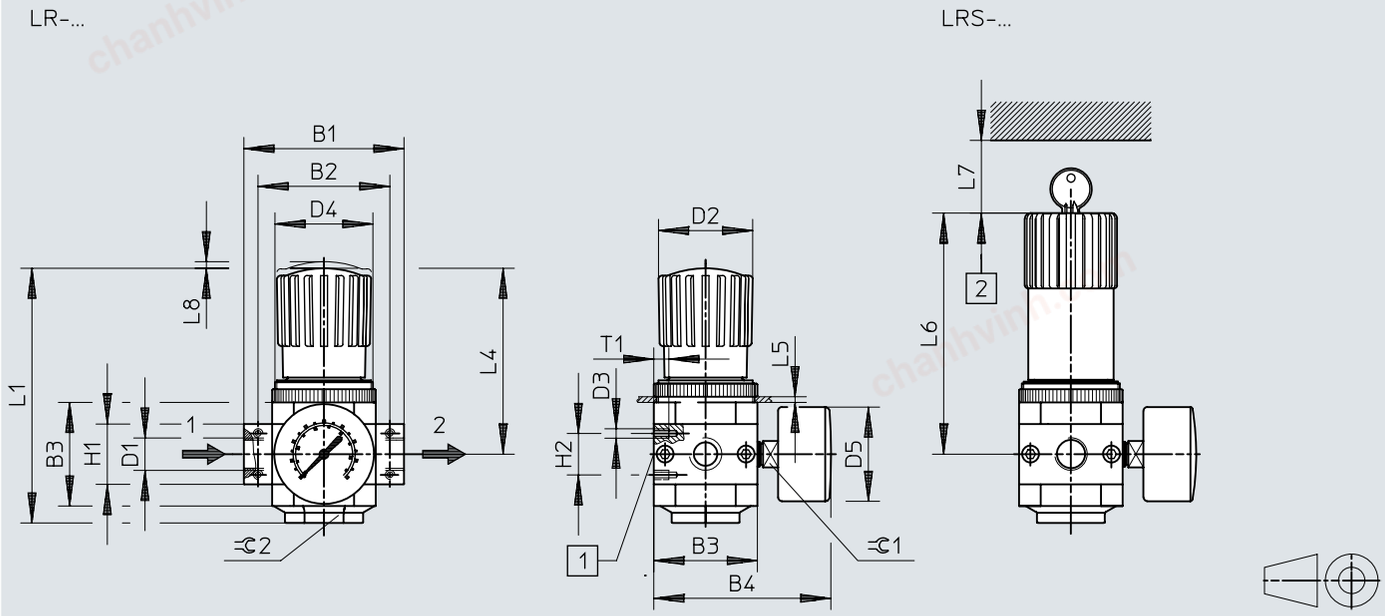
Standard flow rate qn as a function of output pressure p2 (p1 = 10 bar) – LR/LRS-1-D-DI-MAXI



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Dimensions

Dimensions – Mini/Midi/Maxi, lockable Download CAD data www.festo.com



[1] Second pressure gauge connection
[2] Installation dimension

	B1	B2	B3	B4	D1	D2 ø	D3	D4	D5 ø
LR/LRS-1/8-D-(I)-MINI	64	52	40	76	G1/8	31	M4	M36x1,5	39
LR/LRS-1/4-D-(I)-MINI					G1/4				
LR/LRS-3/8-D-(I)-MINI	70				G3/8				
LR/LRS-1/4-D-(I)-MIDI	85	70	55	95	G1/4	50	M5	M52x1,5	39 (49)[1]
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				
LR/LRS-1/2-D-MAXI	96	80	66	106	G1/2	31	M5	M36x1,5	39 (49)[1]
LR/LRS-1/2-D-DI-MAXI				105		49		M52x1,5	
LR/LRS-3/4-D-MAXI				106	G3/4	31		M36x1,5	
LR/LRS-3/4-D-DI-MAXI				105		49		M52x1,5	
LR/LRS-1-D-MAXI	116	91		106	G1	31		M36x1,5	
LR/LRS-1-D-DI-MAXI				105		49		M52x1,5	

	H1	H2	L1	L4	L5 max.	L6	L7	T1	⊂ 1	⊂ 2
LR/LRS-1/8-D-(I)-MINI	20	11	95	68	3	98	60	7	14	17
LR/LRS-1/4-D-(I)-MINI										
LR/LRS-3/8-D-(I)-MINI										
LR/LRS-1/4-D-(I)-MIDI	32	22	135	99	5	130	60	8	14	36
LR/LRS-3/8-D-(I)-MIDI										
LR/LRS-1/2-D-(I)-MIDI										
LR/LRS-3/4-D-(I)-MIDI										
LR/LRS-1/2-D-MAXI	32	22	125	82	4	111	60	8	14	22
LR/LRS-1/2-D-DI-MAXI	32		148	105		135				
LR/LRS-3/4-D-MAXI	32		125	82		111				
LR/LRS-3/4-D-DI-MAXI	36		148	105		135				
LR/LRS-1-D-MAXI	40		125	82		111				
LR/LRS-1-D-DI-MAXI	41		148	105		135				

1) Pressure gauge with outer scale in MPa and inner scale in bar
2) Note: This product complies with ISO 1179-1 and ISO 228-1.

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Ordering data

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi		0.5 ... 12 bar	11,500 l/min		546436	LR-D-MAXI
	G1/2	0.5 ... 7 bar	10,700 l/min	1,200 g	186457	LR-1/2-D-7-MAXI
		0.5 ... 12 bar	10,500 l/min	800 g	186455	LR-1/2-D-MAXI
	G3/4	0.5 ... 7 bar	12,000 l/min	1,200 g	162588	LR-3/4-D-7-MAXI
		0.5 ... 12 bar	11,000 l/min	800 g	159626	LR-3/4-D-MAXI
	G1	0.5 ... 7 bar	12,500 l/min	1,200 g	162589	LR-1-D-7-MAXI
		0.5 ... 12 bar	11,500 l/min	800 g	159627	LR-1-D-MAXI
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	720 g	186453	LR-1/4-D-7-MIDI
		0.5 ... 12 bar	2,100 l/min		186451	LR-1/4-D-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		162585	LR-3/8-D-7-MIDI
		0.5 ... 12 bar	3,200 l/min		159580	LR-3/8-D-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		162586	LR-1/2-D-7-MIDI
		0.5 ... 12 bar	3,500 l/min		159581	LR-1/2-D-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		162587	LR-3/4-D-7-MIDI
		0.5 ... 12 bar	3,500 l/min		162581	LR-3/4-D-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	350 g	162582	LR-1/8-D-7-MINI
		0.5 ... 12 bar	800 l/min		159624	LR-1/8-D-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		162583	LR-1/4-D-7-MINI
		0.5 ... 12 bar	1,500 l/min		159625	LR-1/4-D-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		162584	LR-3/8-D-7-MINI
		0.5 ... 12 bar	1,700 l/min		162580	LR-3/8-D-MINI

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in MPa, inner scale in bar – only available in Asia)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	10,700 l/min	1,200 g	8002371	LR-1/2-D-7-MAXI-MPA
		0.5 ... 12 bar	10,500 l/min	800 g	8002370	LR-1/2-D-MAXI-MPA
	G3/4	0.5 ... 7 bar	12,000 l/min	1,200 g	8002294	LR-3/4-D-7-MAXI-MPA
		0.5 ... 12 bar	11,000 l/min	800 g	8002276	LR-3/4-D-MAXI-MPA
	G1	0.5 ... 7 bar	12,500 l/min	1,200 g	8002295	LR-1-D-7-MAXI-MPA
		0.5 ... 12 bar	11,500 l/min	800 g	8002277	LR-1-D-MAXI-MPA
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	720 g	8002369	LR-1/4-D-7-MIDI-MPA
		0.5 ... 12 bar	2,100 l/min		8002368	LR-1/4-D-MIDI-MPA
	G3/8	0.5 ... 7 bar	3,300 l/min		8002291	LR-3/8-D-7-MIDI-MPA
		0.5 ... 12 bar	3,200 l/min		8002256	LR-3/8-D-MIDI-MPA
	G1/2	0.5 ... 7 bar	4,000 l/min		8002292	LR-1/2-D-7-MIDI-MPA
		0.5 ... 12 bar	3,500 l/min		8002257	LR-1/2-D-MIDI-MPA
	G3/4	0.5 ... 7 bar	4,500 l/min		8002293	LR-3/4-D-7-MIDI-MPA
		0.5 ... 12 bar	3,500 l/min		8002287	LR-3/4-D-MIDI-MPA
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	350 g	8002288	LR-1/8-D-7-MINI-MPA
		0.5 ... 12 bar	800 l/min		8002274	LR-1/8-D-MINI-MPA
	G1/4	0.5 ... 7 bar	1,600 l/min		8002289	LR-1/4-D-7-MINI-MPA
		0.5 ... 12 bar	1,500 l/min		8002275	LR-1/4-D-MINI-MPA
	G3/8	0.5 ... 7 bar	1,800 l/min		8002290	LR-3/8-D-7-MINI-MPA
		0.5 ... 12 bar	1,700 l/min		8002286	LR-3/8-D-MINI-MPA

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	10,700 l/min	1,100 g	186458	LR-1/2-D-7-O-MAXI
		0.5 ... 12 bar	10,500 l/min	700 g	186456	LR-1/2-D-O-MAXI
	G3/4	0.5 ... 7 bar	12,000 l/min	1,100 g	162604	LR-3/4-D-7-O-MAXI
		0.5 ... 12 bar	11,000 l/min	700 g	162596	LR-3/4-D-O-MAXI
	G1	0.5 ... 7 bar	12,500 l/min	1,100 g	162605	LR-1-D-7-O-MAXI
		0.5 ... 12 bar	11,500 l/min	700 g	162597	LR-1-D-O-MAXI
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	660 g	186454	LR-1/4-D-7-O-MIDI

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Ordering data

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 12 bar	2,100 l/min	660 g	186452	LR-1/4-D-O-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		162601	LR-3/8-D-7-O-MIDI
		0.5 ... 12 bar	3,200 l/min		162593	LR-3/8-D-O-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		162602	LR-1/2-D-7-O-MIDI
		0.5 ... 12 bar	3,500 l/min		162594	LR-1/2-D-O-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		162603	LR-3/4-D-7-O-MIDI
		0.5 ... 12 bar	3,500 l/min		162595	LR-3/4-D-O-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	300 g	162598	LR-1/8-D-7-O-MINI
		0.5 ... 12 bar	800 l/min		162590	LR-1/8-D-O-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		162599	LR-1/4-D-7-O-MINI
		0.5 ... 12 bar	1,500 l/min		162591	LR-1/4-D-O-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		162600	LR-3/8-D-7-O-MINI
		0.5 ... 12 bar	1,700 l/min		162592	LR-3/8-D-O-MINI

Pressure regulators LR – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	720 g	192311	LR-1/4-D-7-I-MIDI
		0.5 ... 12 bar	2,100 l/min		192310	LR-1/4-D-I-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		192313	LR-3/8-D-7-I-MIDI
		0.5 ... 12 bar	3,200 l/min		192312	LR-3/8-D-I-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		192315	LR-1/2-D-7-I-MIDI
		0.5 ... 12 bar	3,500 l/min		192314	LR-1/2-D-I-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		192317	LR-3/4-D-7-I-MIDI
		0.5 ... 12 bar	3,500 l/min		192316	LR-3/4-D-I-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	350 g	192299	LR-1/8-D-7-I-MINI
		0.5 ... 12 bar	800 l/min		192298	LR-1/8-D-I-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		192301	LR-1/4-D-7-I-MINI
		0.5 ... 12 bar	1,500 l/min		192300	LR-1/4-D-I-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		192303	LR-3/8-D-7-I-MINI
		0.5 ... 12 bar	1,700 l/min		192302	LR-3/8-D-I-MINI

Pressure regulators LR – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in MPa, inner scale in bar – only available in Asia)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 12 bar	2,100 l/min	720 g	8002394	LR-1/4-D-I-MIDI-MPA
	G3/8	0.5 ... 7 bar	3,300 l/min		8002395	LR-3/8-D-7-I-MIDI-MPA
	G1/2	0.5 ... 12 bar	3,500 l/min		8002396	LR-1/2-D-I-MIDI-MPA
	G3/4				8002397	LR-3/4-D-I-MIDI-MPA
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	350 g	8002389	LR-1/8-D-7-I-MINI-MPA
		0.5 ... 12 bar	800 l/min		8002388	LR-1/8-D-I-MINI-MPA
	G1/4	0.5 ... 7 bar	1,600 l/min		8002391	LR-1/4-D-7-I-MINI-MPA
		0.5 ... 12 bar	1,500 l/min		8002390	LR-1/4-D-I-MINI-MPA
	G3/8	0.5 ... 7 bar	1,800 l/min		8002393	LR-3/8-D-7-I-MINI-MPA
		0.5 ... 12 bar	1,700 l/min		8002392	LR-3/8-D-I-MINI-MPA

Pressure regulators LR – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	660 g	192319	LR-1/4-D-7-O-I-MIDI
		0.5 ... 12 bar	2,100 l/min		192318	LR-1/4-D-O-I-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		192321	LR-3/8-D-7-O-I-MIDI

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Ordering data

Pressure regulators LR – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G3/8	0.5 ... 12 bar	3,200 l/min	660 g	192320	LR-3/8-D-O-I-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		192323	LR-1/2-D-7-O-I-MIDI
		0.5 ... 12 bar	3,500 l/min		192322	LR-1/2-D-O-I-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		192325	LR-3/4-D-7-O-I-MIDI
		0.5 ... 12 bar	3,500 l/min		192324	LR-3/4-D-O-I-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	300 g	192305	LR-1/8-D-7-O-I-MINI
		0.5 ... 12 bar	800 l/min		192304	LR-1/8-D-O-I-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		192307	LR-1/4-D-7-O-I-MINI
		0.5 ... 12 bar	1,500 l/min		192306	LR-1/4-D-O-I-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		192309	LR-3/8-D-7-O-I-MINI
		0.5 ... 12 bar	1,700 l/min		192308	LR-3/8-D-O-I-MINI

Pressure regulators LR – directly actuated pressure regulator with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	7,300 l/min	1,400 g	192358	LR-1/2-D-7-DI-MAXI
		0.5 ... 12 bar	5,400 l/min		192356	LR-1/2-D-DI-MAXI
	G3/4	0.5 ... 7 bar	8,350 l/min		192362	LR-3/4-D-7-DI-MAXI
		0.5 ... 12 bar	6,800 l/min		192360	LR-3/4-D-DI-MAXI
	G1	0.5 ... 7 bar	8,400 l/min		192366	LR-1-D-7-DI-MAXI
		0.5 ... 12 bar	7,000 l/min		192364	LR-1-D-DI-MAXI

Ordering data

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G3/4	0.5 ... 12 bar	6,800 l/min	1,400 g	8002398	LR-3/4-D-DI-MAXI-MPA

Pressure regulators LR – directly actuated with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	7,300 l/min	1,330 g	192359	LR-1/2-D-7-O-DI-MAXI
		0.5 ... 12 bar	5,400 l/min		192357	LR-1/2-D-O-DI-MAXI
	G3/4	0.5 ... 7 bar	8,350 l/min		192363	LR-3/4-D-7-O-DI-MAXI
		0.5 ... 12 bar	6,800 l/min		192361	LR-3/4-D-O-DI-MAXI
	G1	0.5 ... 7 bar	8,400 l/min		192367	LR-1-D-7-O-DI-MAXI
		0.5 ... 12 bar	7,000 l/min		192365	LR-1-D-O-DI-MAXI

Pressure regulator, lockable LRS – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	10,700 l/min	1,288 g	194660	LRS-1/2-D-7-MAXI
		0.5 ... 12 bar	10,500 l/min	888 g	194658	LRS-1/2-D-MAXI
	G3/4	0.5 ... 7 bar	12,000 l/min	1,288 g	194662	LRS-3/4-D-7-MAXI
		0.5 ... 12 bar	11,000 l/min	888 g	194664	LRS-3/4-D-MAXI
	G1	0.5 ... 7 bar	12,500 l/min	1,288 g	194668	LRS-1-D-7-MAXI
		0.5 ... 12 bar	11,500 l/min	888 g	194666	LRS-1-D-MAXI
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	1,250 g	194630	LRS-1/4-D-7-MIDI
		0.5 ... 12 bar	2,100 l/min		194626	LRS-1/4-D-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		194638	LRS-3/8-D-7-MIDI
		0.5 ... 12 bar	3,200 l/min		194634	LRS-3/8-D-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		194646	LRS-1/2-D-7-MIDI
		0.5 ... 12 bar	3,500 l/min		194642	LRS-1/2-D-MIDI

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Ordering data

Pressure regulator, lockable LRS – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G3/4	0.5 ... 7 bar	4,500 l/min	1,250 g	194656	LRS-3/4-D-7-MIDI
		0.5 ... 12 bar	3,500 l/min		194650	LRS-3/4-D-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	520 g	194606	LRS-1/8-D-7-MINI
		0.5 ... 12 bar	800 l/min	500 g	194602	LRS-1/8-D-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min	520 g	194614	LRS-1/4-D-7-MINI
		0.5 ... 12 bar	1,500 l/min	500 g	194610	LRS-1/4-D-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min	520 g	194622	LRS-3/8-D-7-MINI
		0.5 ... 12 bar	1,700 l/min	500 g	194618	LRS-3/8-D-MINI

Pressure regulator, lockable LRS – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in MPa, inner scale in bar – only available in Asia)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Mini	G1/8	0.5 ... 12 bar	800 l/min	500 g	8037013	LRS-1/8-D-MINI-MPA
	G1/4	0.5 ... 7 bar	1,600 l/min	520 g	8037015	LRS-1/4-D-7-MINI-MPA

Pressure regulator, lockable LRS – rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	10,700 l/min	1,215 g	194661	LRS-1/2-D-7-O-MAXI
		0.5 ... 12 bar	10,500 l/min	815 g	194659	LRS-1/2-D-O-MAXI
	G3/4	0.5 ... 7 bar	12,000 l/min	1,215 g	194663	LRS-3/4-D-7-O-MAXI
		0.5 ... 12 bar	11,000 l/min	815 g	194665	LRS-3/4-D-O-MAXI
	G1	0.5 ... 7 bar	12,500 l/min	1,215 g	194669	LRS-1-D-7-O-MAXI
		0.5 ... 12 bar	11,500 l/min	815 g	194667	LRS-1-D-O-MAXI
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	1,180 g	194632	LRS-1/4-D-7-O-MIDI
		0.5 ... 12 bar	2,100 l/min		194628	LRS-1/4-D-O-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		194640	LRS-3/8-D-7-O-MIDI
		0.5 ... 12 bar	3,200 l/min		194636	LRS-3/8-D-O-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		194648	LRS-1/2-D-7-O-MIDI
		0.5 ... 12 bar	3,500 l/min		194644	LRS-1/2-D-O-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		194654	LRS-3/4-D-7-O-MIDI
		0.5 ... 12 bar	3,500 l/min		194652	LRS-3/4-D-O-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	470 g	194608	LRS-1/8-D-7-O-MINI
		0.5 ... 12 bar	800 l/min	450 g	194604	LRS-1/8-D-O-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min	470 g	194616	LRS-1/4-D-7-O-MINI
		0.5 ... 12 bar	1,500 l/min	450 g	194612	LRS-1/4-D-O-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min	470 g	194624	LRS-3/8-D-7-O-MINI
		0.5 ... 12 bar	1,700 l/min	450 g	194620	LRS-3/8-D-O-MINI

Pressure regulator, lockable LRS – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	1,250 g	194631	LRS-1/4-D-7-I-MIDI
		0.5 ... 12 bar	2,100 l/min		194627	LRS-1/4-D-I-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		194639	LRS-3/8-D-7-I-MIDI
		0.5 ... 12 bar	3,200 l/min		194635	LRS-3/8-D-I-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		194647	LRS-1/2-D-7-I-MIDI
		0.5 ... 12 bar	3,500 l/min		194643	LRS-1/2-D-I-MIDI
	G3/4				194651	LRS-3/4-D-I-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	500 g	194607	LRS-1/8-D-7-I-MINI
		0.5 ... 12 bar	800 l/min		194603	LRS-1/8-D-I-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		194615	LRS-1/4-D-7-I-MINI

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Ordering data

Pressure regulator, lockable LRS – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Mini	G1/4	0.5 ... 12 bar	1,500 l/min	500 g	194611	LRS-1/4-D-I-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		194623	LRS-3/8-D-7-I-MINI
		0.5 ... 12 bar	1,700 l/min		194619	LRS-3/8-D-I-MINI

Pressure regulator, lockable LRS – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in MPa, inner scale in bar – only available in Asia)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	500 g	8037014	LRS-1/8-D-7-I-MINI-MPA
		0.5 ... 12 bar	800 l/min		8002400	LRS-1/8-D-I-MINI-MPA
	G1/4	0.5 ... 7 bar	1,600 l/min		8037016	LRS-1/4-D-7-I-MINI-MPA

Pressure regulator, lockable LRS – with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Midi	G1/4	0.5 ... 7 bar	2,200 l/min	1,180 g	194633	LRS-1/4-D-7-O-I-MIDI
		0.5 ... 12 bar	2,100 l/min		194629	LRS-1/4-D-O-I-MIDI
	G3/8	0.5 ... 7 bar	3,300 l/min		194641	LRS-3/8-D-7-O-I-MIDI
		0.5 ... 12 bar	3,200 l/min		194637	LRS-3/8-D-O-I-MIDI
	G1/2	0.5 ... 7 bar	4,000 l/min		194649	LRS-1/2-D-7-O-I-MIDI
		0.5 ... 12 bar	3,500 l/min		194645	LRS-1/2-D-O-I-MIDI
	G3/4	0.5 ... 7 bar	4,500 l/min		194655	LRS-3/4-D-7-O-I-MIDI
		0.5 ... 12 bar	3,500 l/min		194653	LRS-3/4-D-O-I-MIDI
Mini	G1/8	0.5 ... 7 bar	1,000 l/min	450 g	194609	LRS-1/8-D-7-O-I-MINI
		0.5 ... 12 bar	800 l/min		194605	LRS-1/8-D-O-I-MINI
	G1/4	0.5 ... 7 bar	1,600 l/min		194617	LRS-1/4-D-7-O-I-MINI
		0.5 ... 12 bar	1,500 l/min		194613	LRS-1/4-D-O-I-MINI
	G3/8	0.5 ... 7 bar	1,800 l/min		194625	LRS-3/8-D-7-O-I-MINI
		0.5 ... 12 bar	1,700 l/min		194621	LRS-3/8-D-O-I-MINI

Pressure regulator, lockable LRS – directly actuated pressure regulator with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	7,300 l/min	1,680 g	194672	LRS-1/2-D-7-DI-MAXI
		0.5 ... 12 bar	5,400 l/min		194670	LRS-1/2-D-DI-MAXI
	G3/4	0.5 ... 7 bar	8,350 l/min		194676	LRS-3/4-D-7-DI-MAXI
		0.5 ... 12 bar	6,800 l/min		194674	LRS-3/4-D-DI-MAXI
	G1	0.5 ... 7 bar	8,400 l/min		194680	LRS-1-D-7-DI-MAXI
		0.5 ... 12 bar	7,000 l/min		194678	LRS-1-D-DI-MAXI

Pressure regulator, lockable LRS – directly actuated with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (without pressure gauge)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	G1/2	0.5 ... 7 bar	7,300 l/min	1,610 g	194673	LRS-1/2-D-7-O-DI-MAXI
		0.5 ... 12 bar	5,400 l/min		194671	LRS-1/2-D-O-DI-MAXI
	G3/4	0.5 ... 7 bar	8,350 l/min		194677	LRS-3/4-D-7-O-DI-MAXI
		0.5 ... 12 bar	6,800 l/min		194675	LRS-3/4-D-O-DI-MAXI
	G1	0.5 ... 7 bar	8,400 l/min		194681	LRS-1-D-7-O-DI-MAXI
		0.5 ... 12 bar	7,000 l/min		194679	LRS-1-D-O-DI-MAXI

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Ordering data

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi		0.5 ... 7 bar	1,681.19 cfm	1,091.475 oz	546465	LR-D-7-MAXI
	3/4 NPT		12,000 l/min	1,200 g	173670	LR-3/4-D-7-MAXI-NPT
		0.5 ... 12 bar	11,500 l/min	800 g	173668	LR-3/4-D-MAXI-NPT
	1 NPT	0.5 ... 7 bar	12,500 l/min	1,200 g	173674	LR-1-D-7-MAXI-NPT
		0.5 ... 12 bar	11,500 l/min	800 g	173672	LR-1-D-MAXI-NPT
Midi		0.5 ... 7 bar	345.67 cfm	654.885 oz	546458	LR-D-7-MIDI
		0.5 ... 12 bar	502.79 cfm		546424	LR-D-MIDI
	3/8 NPT	0.5 ... 7 bar	3,300 l/min	720 g	173658	LR-3/8-D-7-MIDI-NPT
		0.5 ... 12 bar	3,200 l/min		173656	LR-3/8-D-MIDI-NPT
	1/2 NPT	0.5 ... 7 bar	4,000 l/min		173662	LR-1/2-D-7-MIDI-NPT
		0.5 ... 12 bar	3,500 l/min		173660	LR-1/2-D-MIDI-NPT
	3/4 NPT	0.5 ... 7 bar	4,500 l/min		173666	LR-3/4-D-7-MIDI-NPT
		0.5 ... 12 bar	3,500 l/min		173664	LR-3/4-D-MIDI-NPT
Mini		0.5 ... 7 bar	157.12 cfm	347.288 oz	546452	LR-D-7-MINI
		0.5 ... 12 bar	125.7 cfm	297.675 oz	546430	LR-D-MINI
	1/8 NPT	0.5 ... 7 bar			173646	LR-1/8-D-7-MINI-NPT
		0.5 ... 12 bar			173644	LR-1/8-D-MINI-NPT
	1/4 NPT	0.5 ... 7 bar			173650	LR-1/4-D-7-MINI-NPT
		0.5 ... 12 bar			173648	LR-1/4-D-MINI-NPT
	3/8 NPT	0.5 ... 7 bar			173654	LR-3/8-D-7-MINI-NPT
		0.5 ... 12 bar			173652	LR-3/8-D-MINI-NPT

Pressure regulators LR – rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	3/4 NPT	0.5 ... 7 bar	12,000 l/min	1,100 g	173671	LR-3/4-D-7-O-MAXI-NPT
		0.5 ... 12 bar	11,000 l/min	700 g	173669	LR-3/4-D-O-MAXI-NPT
	1 NPT	0.5 ... 7 bar	12,500 l/min	1,100 g	173675	LR-1-D-7-O-MAXI-NPT
		0.5 ... 12 bar	11,500 l/min	700 g	173673	LR-1-D-O-MAXI-NPT
Midi	3/8 NPT	0.5 ... 7 bar			173659	LR-3/8-D-7-O-MIDI-NPT
		0.5 ... 12 bar			173657	LR-3/8-D-O-MIDI-NPT
	1/2 NPT	0.5 ... 7 bar			173663	LR-1/2-D-7-O-MIDI-NPT
		0.5 ... 12 bar			173661	LR-1/2-D-O-MIDI-NPT
	3/4 NPT	0.5 ... 7 bar			173667	LR-3/4-D-7-O-MIDI-NPT
		0.5 ... 12 bar			173665	LR-3/4-D-O-MIDI-NPT
Mini	1/8 NPT	0.5 ... 7 bar			173647	LR-1/8-D-7-O-MINI-NPT
		0.5 ... 12 bar			173645	LR-1/8-D-O-MINI-NPT
	1/4 NPT	0.5 ... 7 bar			173651	LR-1/4-D-7-O-MINI-NPT
		0.5 ... 12 bar			173649	LR-1/4-D-O-MINI-NPT
	3/8 NPT	0.5 ... 7 bar			173655	LR-3/8-D-7-O-MINI-NPT

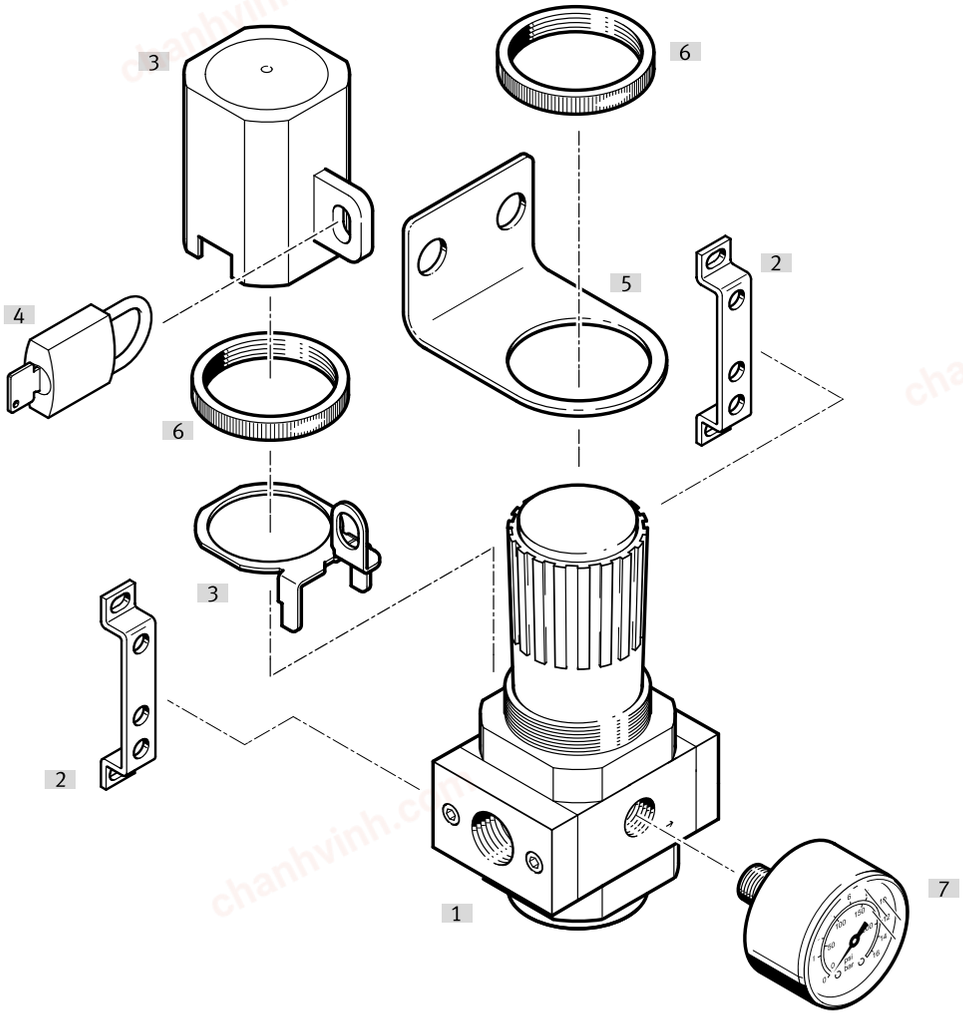
Pressure regulators LR – directly actuated pressure regulator with integrated reverse flow function, rotary knob with latch, connecting plates with threaded connection (with pressure gauge, outer scale in bar, inner scale in psi)

Size	Pressure regulation range	Standard nominal flow rate (standardised to DIN 1343)	Product weight	Part no.	Type
Maxi	0.5 ... 7 bar	1,146.98 cfm	1,319.693 oz	546513	LR-D-7-DI-MAXI
	0.5 ... 12 bar	848.45 cfm		546511	LR-D-DI-MAXI

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Peripherals

Pressure regulator LR

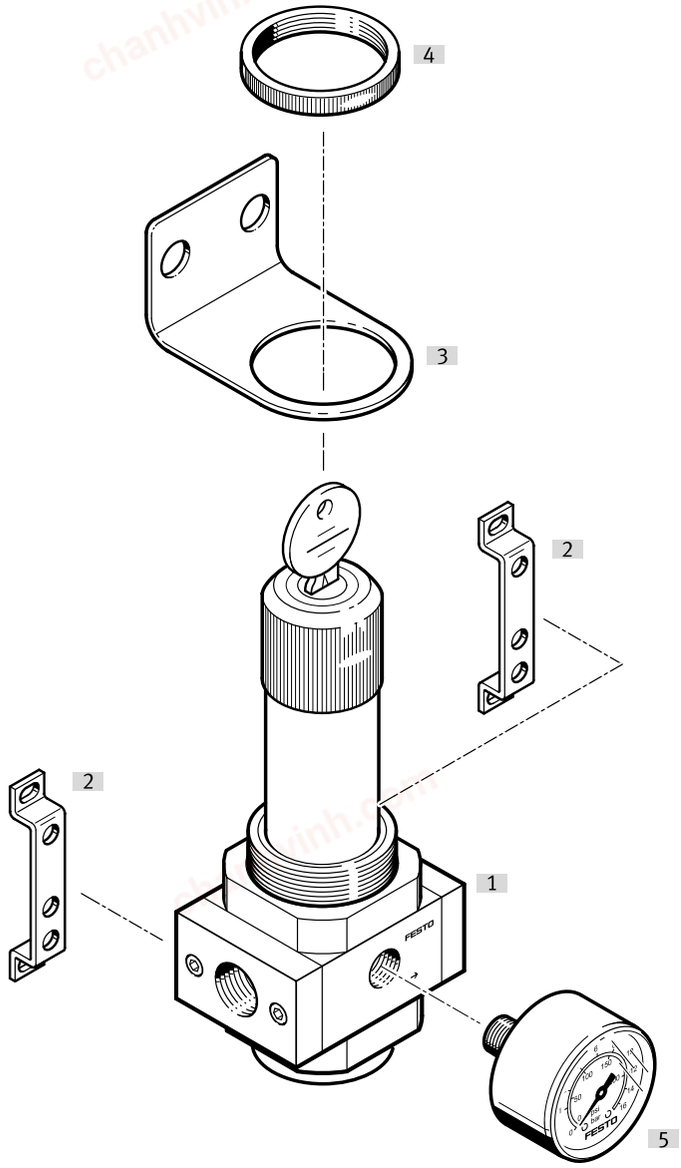


Accessories			→ Link
	Type/order code	Description	
[1]	Pressure regulator LR		lr-d
[2]	Mounting bracket HFOE		16
[3]	Regulator lock LRVS		16
[4]	Padlock LRVS-D		16
[5]	Mounting bracket HR-D		16
[6]	Knurled nut HMR	Included in the scope of delivery	lr-d
[7]	Pressure gauge MA		16

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Peripherals

Pressure regulator LRS, lockable

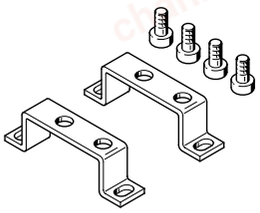


Accessories			→ Link
	Type/order code	Description	
[1]	Pressure regulator LRS		lrs-d
[2]	Mounting bracket HFOE		16
[3]	Mounting bracket HR-D		16
[4]	Knurled nut HMR	Included in the scope of delivery	lrs-d
[5]	Pressure gauge MA		16

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Accessories

Mounting bracket HFOE

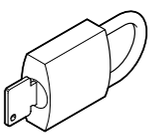
	Corrosion resistance class CRC [1]	LABS (PWIS) conformity	Part no.	Type
	2 - Moderate corrosion stress	VDMA24364-B2-L	**159593**	**HFOE-D-MIDI/MAXI**
		VDMA24364-B1/B2-L	**159638**	**HFOE-D-MINI**

1) More information: www.festo.com/x/topic/kbk

Regulator lock LRVS

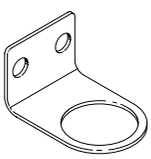
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	36 g	**193784**	**LRVS-D-DI-MAXI**
		40 g	**193781**	**LRVS-D-MINI**
		56 g	**193783**	**LRVS-D-MAXI**
		60 g	**193782**	**LRVS-D-MIDI**

Padlock LRVS-D

	Corrosion resistance class CRC [1]	LABS (PWIS) conformity	Note on materials	Product weight	Part no.	Type
	2 - Moderate corrosion stress	VDMA24364-B1/B2-L	RoHS-compliant	120 g	**193786**	**LRVS-D**

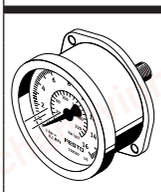
1) More information: www.festo.com/x/topic/kbk

Mounting bracket HR-D

	Corrosion resistance class CRC [1]	LABS (PWIS) conformity	Part no.	Type
	1 - Low corrosion stress	VDMA24364-B1/B2-L	**164936**	**HR-D-MINI**
	2 - Moderate corrosion stress		**162804**	**HR-D-MIDI**
			162805	**HR-D-MAXI**
			193802	**HR-D-DI-MAXI**

1) More information: www.festo.com/x/topic/kbk

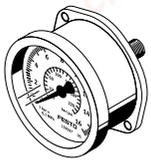
Pressure gauge MA

	Nominal size of pressure gauge	Pneumatic connection	Scale	Product weight	Part no.	Type
	40	G1/8	Double scale, Bar (outside scale), psi (inner scale)	60 g	**345395**	**MA-40-16-1/8**
					359874	**MA-40-10-1/8**
			Single scale, MPa (outer scale)		**192733**	**MA-40-1,6-G1/8-MPA**
					192732	**MA-40-1-G1/8-MPA**
		G1/4	Double scale, Bar (outside scale), psi (inner scale)	70 g	**183900**	**MA-40-10-G1/4-EN**
				80 g	**159597**	**FMA-40-16-1/4-EN**
					159596	**FMA-40-10-1/4-EN**

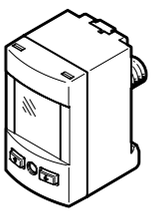
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Accessories

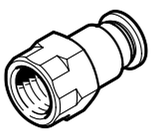
Pressure gauge MA

	Nominal size of pressure gauge	Pneumatic connection	Scale	Product weight	Part no.	Type
	40	R1/8	Double scale, Bar (outside scale), psi (inner scale)	60 g	**162835**	**MA-40-10-1/8-EN**
	50	G1/4		70 g	**356759**	**MA-50-16-1/4**
					359873	**MA-50-10-1/4**
				100 g	**159600**	**FMA-50-16-1/4-EN**
					159599	**FMA-50-10-1/4-EN**
			Single scale, MPa (outer scale)	70 g	**192734**	**MA-50-1-G1/4-MPA**
					192735	**MA-50-1,6-G1/4-MPA**

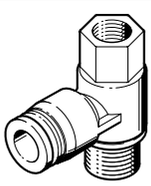
Pressure sensor SPAU for direct mounting on the service unit component with pressure gauge connection (adapter for pneumatic connection included in the scope of delivery)

	Pneumatic connection	Switching output	Display type	Electrical connection 1, connector system	Part no.	Type
	R1/8	2 x PNP or 2 x NPN, switchable	Illuminated LCD	M12x1, A-coded to EN 61076-2-101	**8001206**	**SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D**
				M8x1, A-coded, to EN 61076-2-104	**8001203**	**SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D**
	R1/4			M12x1, A-coded to EN 61076-2-101	**8001208**	**SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D**
				M8x1, A-coded, to EN 61076-2-104	**8001209**	**SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D**

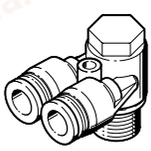
Push-in fitting QSF, female thread with external hex

	Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Type
	Female thread G1/4	For tubing outside diameter of 8 mm	24 g	**153026**	**QSF-1/4-8-B**

Push-in T-fitting QSTF, rotatable 360°, with female and male thread

	Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Type
	Male thread G1/4	Female thread G1/4, For tubing outside diameter of 8 mm	44 g	**186203**	**QSTF-G1/4-8**

Push-in Y-fitting QSYLV, rotatable 360°, male thread with external hex

	Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Type
	Male thread G1/4	For tubing outside diameter of 8 mm	48 g	**186210**	**QSYLV-G1/4-8**