Pressure and differential pressure regulators



- Minimal dimensions
- Constant output pressure
- Constant differential pressure between the input and output
- Versions with or without pressure gauge
- With screw-in thread M5 ... R¹/₂ or push-in connector Ø 4 ... 12 mm

Pressure and differential pressure regulators

FESTO

Features



- N Flow rate 22 ... 127 l/min
- With threaded and push-in connector
- Screw-in thread
 M5, R¹/8, R¹/4
- Push-in connector for tubing O.D. 4 ... 8 mm
- Push-in connector, can be rotated 360°

The pressure regulator maintains an essentially constant output pressure on the secondary side independent of pressure fluctuations on the primary side and air consumption. The primary pressure at the screw-in thread is reduced when air is exhausted from the QS push-in connector.

- Differential pressure regulators LRL, LRLL
- 1 Flow rate 30 ... 760 l/min
- With threaded and push-in connector
- Screw-in thread M5, R¹/8, R¹/4, R³/8, R¹/2
 Push-in connector
- for tubing 0.D. 4 ... 12 mm
- Push-in connector, can be rotated 360°

The differential pressure regulator maintains a manually adjusted differential pressure between the primary pressure at the screw-in thread and the output pressure at the QS push-in connector. Pressure applied at the QS push-in connector can be exhausted with no change in pressure at the thread connection end thanks to an integrated non-return valve.

- Note

The differential pressure regulator has no exhaust, i.e. increasing secondary pressure cannot be reduced.

2 / 5.4-2

Pressure and differential pressure regulators Product range overview

FESTO

| Function | Design | Туре | Pneumatic conn | ection | | | | | → Page |
|---------------------------------|-------------------|--------------------------|-------------------|---------------------------------------|------------|-----|----|----|-----------|
| | | | Thread | For tubi | ng O.D. [r | nm] | | | - |
| | | | | 4 | 6 | 8 | 10 | 12 | |
| Pressure regulating | With QS push-in o | connector and screw-in t | hread | · · · · · · · · · · · · · · · · · · · | | | | | |
| valve without pressure gauge | <u>S</u> | LRQS | M5 | • | | - | - | - | 2 / 5.4-5 |
| | | | R1⁄8 | | • | | - | - | |
| | S. | | R1⁄4 | - | • | | - | - | |
| | With OS push-in o | connector at both ends | I | | | | | | |
| | | LR-QS | _ | | | | | | 2 / 5.4-5 |
| | | | | - | | | _ | _ | 2, 51, 5 |
| | 3 | | | | | | | | |
| | | | | | I | | | | I |
| Pressure regulator | With QS push-in o | connector and screw-in t | thread | | | | | | |
| with pressure gauge | <u>s</u> | LRMAQS | M5 | | • | - | - | - | 2 / 5.4-9 |
| | | | R1/8 | • | • | • | - | - |] |
| | | | R1⁄4 | - | - | • | - | - | |
| | | | | | | | | | |
| | With QS push-in o | connector at both ends | | | - | | | | |
| | | LRMA-QS | - | | | | | | 2 / 5.4-9 |
| | | | | - | - | - | - | - | |
| | | | | | | | | | |
| Differential pressure | With OS nuch-in a | connector at top and scr | ew-in thread | | | | | | |
| egulator | | LRLQS | M5 | | | - | - | - | 2 / 5.5-0 |
| vithout pressure gauge | | LIVE (20 | R1/8 | | | | - | - | 2, 5.5 0 |
| and proceeding Sudge | | | R ¹ /4 | - | | - | | - | - |
| | NT - | | R ³ /8 | | - | | | | - |
| | ¥1 | | R ¹ /2 | | - | - | - | | - |
| | | I | 11/2 | | 1 | 1 | 1 | | |
| | With QS push-in o | connector on side and so | | | | | | | |
| | | LRLLQS | M5 | | | - | - | - | 2 / 5.5-0 |
| | | | R1/8 | • | | | - | - | 1 |
| | - C | | R1/4 | - | | | | - | 1 |
| | I WIL | | R ³ /8 | - | - | | | | 1 |
| | | | R1/2 | | | | | | |

Flow, non-return and regulating valves Pressure regulators

5.4

Pressure and differential pressure regulators Type codes

| L | RLL | - 3⁄8 |
|---|-----|-------|
| īype | | |
| Pressure regulator | | |
| R Without pressure gauge | | |
| RMA With pressure gauge | _ | |
| Differential pressure regulator | - | |
| .RL Outlet on top | | |
| RLL Outlet on the side | | |
| Screw-in thread | | |
| M5 Metric thread M5 | | |
| /s Pipe thread R ¹ /s | - | |
| /4 Pipe thread R ¹ /4 | - | |
| % Pipe thread R3/8 | | |
| /2 Pipe thread R ¹ /2 |] | |
| lubing connection | | |
| Type of connection | | |
| QS Push-in connector for standard O.D. tubing | | |
| For tubing O.D. | 1 | |
| 4 mm | 7 | |
| ó 6 mm | 7 | |
| 3 8 mm | | |
| 10 10 mm | | |
| 12 12 mm | | |

Flow, non-return and regulating valves Pressure regulators 5.4

Pressure regulators LR Technical data

FESTO

Function - 11 -Flow rate

22 ... 127 l/min

- Minimal dimensions
- Constant output pressure
- Version without pressure gauge
- Screw-in thread M5 ... R¹/4 or push-in connector \varnothing 4 ... 8 mm



| General technical data | | |
|------------------------|----------------------------------|---|
| Design | | Directly actuated piston regulator with through pressure supply |
| Regulating function | | With secondary venting, output pressure constant |
| Actuator lock | | Knurled screw with lock nut |
| Mounting position | | Any |
| With QS push-in connec | tor and metric thread with seali | ng ring |
| Type of mounting | | Can be screwed in |
| Materials Housing | | Polybutylene terephthalate |
| | Threaded plug | Nickel plated brass |
| | | |
| With QS push-in connec | tor and PTFE-coated pipe thread | |
| Type of mounting | | Can be screwed in |
| Materials | Housing | Polybutylene terephthalate |
| | Threaded plug | Nickel plated brass |
| | Threaded seal | Polytetrafluoroethylene |
| | | |
| With QS push-in connec | tor at both ends | |
| Type of mounting | | Via through-holes |
| Materials | Housing | Polybutylene terephthalate |

Operating and environmental conditions

| operating and environmental condition | | | | | |
|---------------------------------------|-------|---|--|--|--|
| Operating medium | | Filtered compressed air, lubricated or unlubricated | | | |
| Input pressure | [bar] | 0 9 | | | |
| Pressure regulation range | [bar] | 18 | | | |
| Ambient temperature | [°C] | 0 60 | | | |

Pressure regulators LR Technical data

M5

22

41

| Weights [g] | | | | | | |
|---|---------------------------------|------|------|--|--|--|
| Screw-in thread | M5 | R1/8 | R1⁄4 | | | |
| With QS push-in connector and metric thread with sealing ring | | | | | | |
| QS-4 | 16 | - | - | | | |
| QS-6 | 16 | - | - | | | |
| | | | | | | |
| With QS push-in conn | ector and PTFE-coated pipe thre | ead | | | | |
| QS-4 | - | 32.5 | - | | | |
| QS-6 | - | 33.5 | 54 | | | |
| QS-8 | - | 35 | 55 | | | |

| Weights [g] | | |
|-----------------------|--------------------|--|
| With QS push-in conne | ector at both ends | |
| QS-4 | 33 | |
| QS-6 | 33 | |
| QS-8 | 56 | |

R1⁄4

_

_

_

98

101

R1⁄8

_

-

46

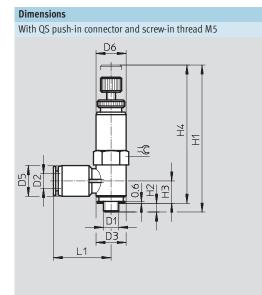
63

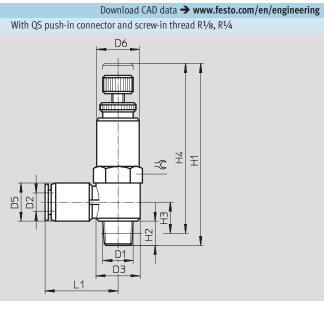
69

| Standard nominal flow rate [l/min] | | | | |
|------------------------------------|--------------|--|--|--|
| With QS push-in connector a | at both ends | | | |
| QS-4 | 67 | | | |
| QS-6 | 70 | | | |
| QS-8 | 127 | | | |

Pressure regulators LR Technical data

FESTO

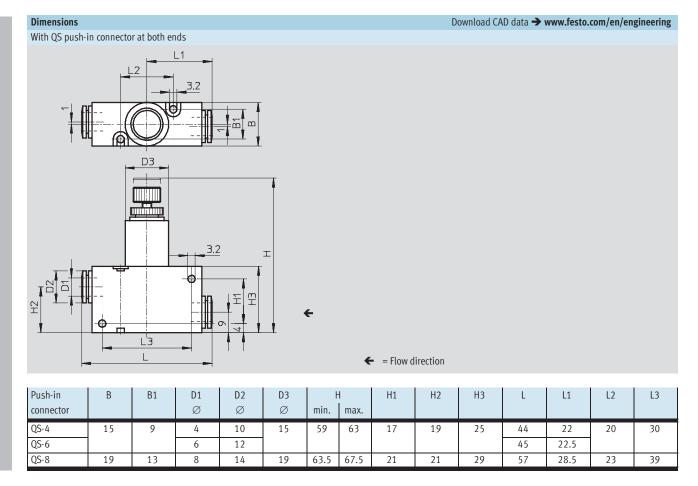




| Screw-in thread D1 | D2 Ø | D3 Ø | D5 Ø | D6 Ø | Н | 1 | H2 | H3 | Н | 4 | L1 | Ð= |
|-----------------------|---------|---------|---------|---------|------|-------|------|------|------|------|------|----|
| | | | | | min. | max. | | | min. | max. | | |
| M5 | 4 | 9.8 | 8 | 10 | 44.6 | 48.75 | 2.9 | 7.6 | 41.7 | 45.8 | 16 | 10 |
| | 6 | 9.8 | 10.5 | 10 | 44.6 | 48.7 | 2.9 | 8.4 | 41.7 | 45.8 | 17.8 | 10 |
| R1⁄8 | 4 | 14.4 | 10 | 14 | 56 | 60 | 7.8 | 10.5 | 52 | 56 | 21.4 | 14 |
| | 6 | 14.4 | 12.4 | 14 | 56 | 60 | 7.8 | 10.7 | 52 | 56 | 23.5 | 14 |
| | 8 | 14.4 | 14.4 | 14 | 56 | 60 | 7.8 | 11.7 | 52 | 56 | 26.9 | 14 |
| R1⁄4 | 6 | 18.4 | 12.4 | 17 | 60.8 | 64.8 | 11.3 | 12.2 | 54.8 | 58.8 | 25.5 | 17 |
| | 8 | 18.4 | 14.4 | 17 | 60.8 | 64.8 | 11.3 | 13.2 | 54.8 | 58.8 | 28.4 | 17 |

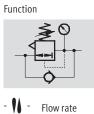
Flow, non-return and regulating valves Pressure regulators 5.4

Pressure regulators LR



| Ordering data | | | | | |
|---------------|---|--------------------|-----------------|----------|-------------|
| | Description | Screw-in thread | For tubing O.D. | Part No. | Туре |
| | | | [mm] | | |
| A | With QS push-in connector and metric thread with sealing ring | M5 | 4 | 153 532 | LR-M5-QS-4 |
| <u> </u> | | | 6 | 153 533 | LR-M5-QS-6 |
| | With QS push-in connector and PTFE-coated pipe thread | R1/8 | 4 | 153 534 | LR-1/8-QS-4 |
| | | | 6 | 153 535 | LR-1/8-QS-6 |
| | | | 8 | 153 536 | LR-1/8-QS-8 |
| | | R1⁄4 | 6 | 153 537 | LR-1/4-QS-6 |
| | | | 8 | 153 538 | LR-1/4-QS-8 |
| | With QS push-in connector at both ends | - | 4 | 153 540 | LR-QS-4 |
| 8 | | | 6 | 153 541 | LR-QS-6 |
| | | | 8 | 153 542 | LR-QS-8 |
| | | | | | |

Pressure regulators LRMA, with pressure gauge Technical data



36 ... 124 l/min

- Minimal dimensions
- Constant output pressure
- Version with pressure gauge
- Screw-in thread M5 ... R¹/4 or push-in connector \varnothing 4 ... 8 mm



| General technical data | | | | | |
|------------------------|-----------------------------------|---|--|--|--|
| Design | | Directly actuated piston regulator with through pressure supply | | | |
| Regulating function | | With secondary venting, output pressure constant | | | |
| Actuator lock | | Knurled screw with lock nut | | | |
| Mounting position | | Any | | | |
| With QS push-in connec | ctor and metric thread with seali | ng ring | | | |
| Type of mounting | | Can be screwed in | | | |
| Materials | Housing | Polybutylene terephthalate | | | |
| | Threaded plug | Nickel plated brass | | | |
| | | | | | |
| With QS push-in connec | ctor and PTFE-coated pipe thread | | | | |
| Type of mounting | | Can be screwed in | | | |
| Materials | Housing | Polybutylene terephthalate | | | |
| | Threaded plug | Nickel plated brass | | | |
| | Threaded seal | Polytetrafluoroethylene | | | |
| | | | | | |
| With QS push-in connec | ctor at both ends | | | | |
| Type of mounting | | Via through-holes | | | |
| Materials | Housing | Polybutylene terephthalate | | | |

Operating and environmental conditions

| operating and environmental condition | 115 | | | | | |
|---------------------------------------|-------|---|--|--|--|--|
| Operating medium | | Filtered compressed air, lubricated or unlubricated | | | | |
| Input pressure | [bar] | 09 | | | | |
| Pressure regulation range | [bar] | 18 | | | | |
| Ambient temperature | [°C] | 0 60 | | | | |

| Weights [g] | | | | | | |
|---|----------------------------------|------|------|--|--|--|
| Screw-in thread | M5 | R1/8 | R1/4 | | | |
| With QS push-in connector and metric thread with sealing ring | | | | | | |
| QS-4 | 28 | - | - | | | |
| QS-6 | 28 | - | - | | | |
| | | | | | | |
| With QS push-in conne | ector and PTFE-coated pipe threa | ad | | | | |
| QS-4 | - | 54.5 | - | | | |
| QS-6 | - | 54.5 | 55 | | | |
| QS-8 | - | 83.5 | 83.5 | | | |

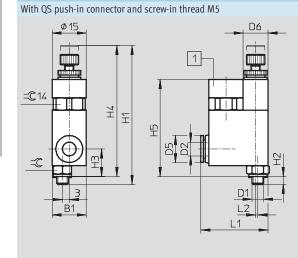
| Weights [g] | | | | | | | |
|--|----|--|--|--|--|--|--|
| With QS push-in connector at both ends | | | | | | | |
| QS-4 | 45 | | | | | | |
| QS-6 | 45 | | | | | | |
| QS-8 | 68 | | | | | | |

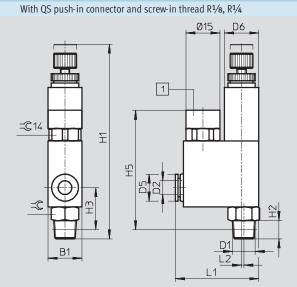
Pressure regulators LRMA, with pressure gauge Technical data

| Standard nominal flow rate [l/min] | | | | | | | | | |
|---|-----------------------------|------|------|--|--|--|--|--|--|
| Screw-in thread | M5 | R1⁄8 | R1⁄4 | | | | | | |
| With QS push-in connector and metric thread with sealing ring | | | | | | | | | |
| QS-4 | 36 | - | - | | | | | | |
| QS-6 | 42 | - | - | | | | | | |
| | | | | | | | | | |
| With QS push-in connector a | and PTFE-coated pipe thread | | | | | | | | |
| QS-4 | - | 60 | - | | | | | | |
| QS-6 | - | 75 | 96 | | | | | | |
| QS-8 | - | 87 | 97 | | | | | | |

Standard nominal flow rate [l/min]

| With QS push-in connector at both ends | | | | | | | | |
|--|-----|--|--|--|--|--|--|--|
| QS-4 | 50 | | | | | | | |
| QS-6 | 76 | | | | | | | |
| QS-8 | 124 | | | | | | | |





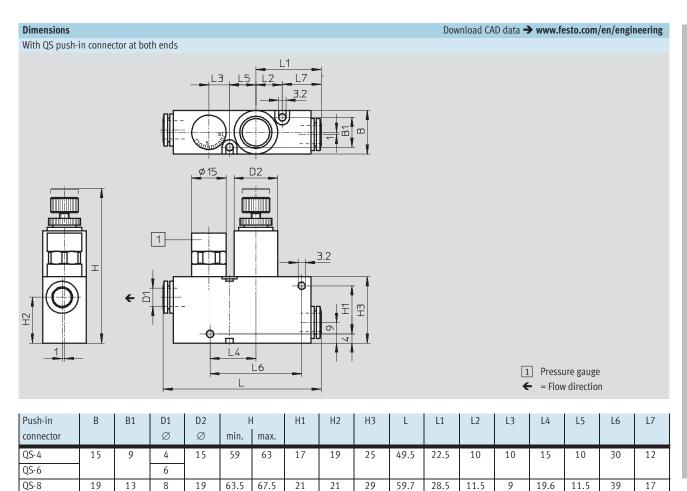
Download CAD data → www.festo.com/en/engineering

1 Pressure gauge

| Screw-in thread | D2 | B1 | D5 | D6 | Н | 1 | H2 | H3 | Н | 4 | H5 | L1 | L2 | D= |
|-----------------|----|------|------|----|------|------|-----|------|------|------|------|------|-----|----|
| D1 | Ø | | Ø | Ø | min. | max. | | | min. | max. | | | | |
| M5 | 4 | 15.1 | 9.8 | 11 | 57.1 | 61.2 | 3.5 | 11.8 | 53.6 | 57.7 | 42.8 | 28 | 1.1 | 8 |
| | 6 | 15.1 | 11.8 | 11 | 57.1 | 61.2 | 3.5 | 11.8 | 53.6 | 57.7 | 42.8 | 28.1 | 1.1 | 8 |
| R1/8 | 4 | 15.1 | 10 | 15 | 77.5 | 81.5 | 8 | 18.5 | - | - | 51.5 | 36 | 0.5 | 12 |
| | 6 | 15.1 | 12 | 15 | 77.5 | 81.5 | 8 | 18.5 | - | - | 51.5 | 36.5 | 0.5 | 12 |
| | 8 | 15 | 14 | 15 | 77.5 | 81.5 | 8 | 18.5 | - | - | 51.5 | 36.5 | 1 | 12 |
| R1⁄4 | 6 | 19 | 12 | 19 | 85.5 | 89.5 | 11 | 22.5 | - | - | 57 | 39.5 | 0.5 | 16 |
| | 8 | 19 | 14 | 19 | 85.5 | 89.5 | 11 | 22.5 | - | - | 57 | 39.5 | 1 | 16 |

Pressure regulators LRMA, with pressure gauge

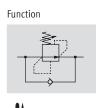
Technical data



| Ordering data | | | | | |
|---------------|---|--------------------|-------------------------|----------|---------------|
| | Description | Screw-in thread | For tubing O.D. [mm] | Part No. | Туре |
| m | With QS push-in connector and metric thread with sealing ring | M5 | 4 | 153 488 | LRMA-M5-QS-4 |
| E. | | | 6 | 153 490 | LRMA-M5-QS-6 |
| | With QS push-in connector and PTFE-coated pipe thread | R1/8 | 4 | 153 489 | LRMA-1/8-QS-4 |
| | | | 6 | 153 491 | LRMA-1/8-QS-6 |
| | | | 8 | 153 493 | LRMA-1/8-QS-8 |
| | | R1⁄4 | 6 | 153 492 | LRMA-¼-QS-6 |
| | | | 8 | 153 494 | LRMA-¼-QS-8 |
| Q | With QS push-in connector at both ends | - | 4 | 153 495 | LRMA-QS-4 |
| | | | 6 | 153 496 | LRMA-QS-6 |
| | | | 8 | 153 497 | LRMA-QS-8 |
| | | | | | |

Differential pressure regulators LRL/LRLL

Technical data



Flow rate
 30 ... 760 l/min

- Minimal dimensions
- Constant differential pressure between the input and output
- With screw-in thread M5 ... R¹/2 or push-in connector Ø 4 ... 12 mm





LRL-...-QS-...

LRLL-...-QS-...

General technical data

| Regulating function | | With return flow, differential pressure constant | | | | | |
|---|---------------|---|-------------------|--|--|--|--|
| Design | | Directly actuated piston regulator with through pressure supply | | | | | |
| Actuator lock Knurled screw with lock nut | | | | | | | |
| Type of mounting | | Can be screwed in | Can be screwed in | | | | |
| Mounting position | | Any | | | | | |
| Materials | Housing | Polybutylene terephthalate | | | | | |
| | Threaded plug | Nickel plated brass | | | | | |
| | Threaded seal | Polytetrafluoroethylene | | | | | |

Operating and environmental conditions Operating medium Filtered compressed air, lubricated or unlubricated Input pressure [bar] 0 ... 9 Pressure regulation range [bar] 1 ... 8 Ambient temperature [°C] 0 ... 60

Pressure regulators

Flow, non-return and regulating valves

| Screw-in thread | M5 | M5 | | R1/8 | | R ¹ /4 | | R3⁄8 | | |
|--------------------|------|--------|------|--------|------|-------------------|------|--------|------|--------|
| | open | closed | open | closed | open | closed | open | closed | open | closed |
| Outlet on top | | | | | | | | | | |
| QS-4 | 30 | 30 | 96 | 93 | - | - | - | - | - | - |
| QS-6 | 30 | 30 | 115 | 115 | 241 | 240 | - | - | - | - |
| QS-8 | - | - | 120 | 115 | 224 | 224 | 463 | 393 | - | - |
| QS-10 | - | - | - | - | 231 | 231 | 476 | 423 | - | - |
| QS-12 | - | - | - | - | - | - | 438 | 379 | 760 | 730 |
| Outlet on the side | | | | | | | | | | |
| QS-4 | 30 | 30 | 100 | 96 | - | - | - | - | - | - |
| QS-6 | 32 | 31 | 155 | 140 | 267 | 266 | - | - | - | - |
| QS-8 | - | - | 115 | 110 | 268 | 264 | 474 | 340 | - | - |
| QS-10 | - | - | - | - | 269 | 262 | 456 | 411 | - | - |
| QS-12 | - | - | - | - | _ | - | 518 | 423 | 730 | 700 |

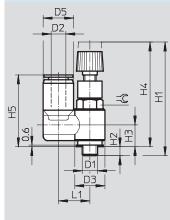
Differential pressure regulators LRL/LRLL Technical data

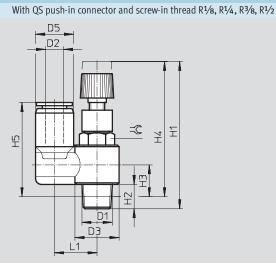
FESTO

| Weights [g] | | | | | |
|-----------------------|----------|------|------|------|------|
| Screw-in thread | M5 | R1⁄8 | R1⁄4 | R3⁄8 | R1/2 |
| Outlet on top (LRL) | | | | | |
| QS-4 | 9.5 | 20 | - | - | - |
| QS-6 | 11 | 21.5 | 37.5 | - | - |
| QS-8 | - | 22.5 | 39 | 68.5 | - |
| QS-10 | - | - | 42.5 | 72 | - |
| QS-12 | - | - | - | 76 | 108 |
| | <u>.</u> | | · · | · | |
| Outlet on side (LRLL) | | | | | |
| QS-4 | 8.8 | 19 | - | - | - |
| QS-6 | 9.8 | 20 | 36.5 | - | - |
| QS-8 | - | 21.5 | 37.5 | 66.5 | - |
| QS-10 | - | - | 41.5 | 69 | - |
| QS-12 | - | - | - | 73 | 105 |

Dimensions – Outlet on top

With QS push-in connector and screw-in thread M5



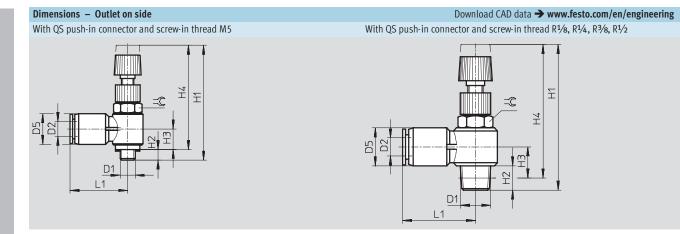


Download CAD data -> www.festo.com/en/engineering

| Screw-in thread | D2 | D3 | D5 | Н | 1 | H2 | H3 | H | 4 | H5 | L1 | D= |
|-----------------|----|------|------|------|------|------|------|------|------|------|------|----|
| D1 | Ø | Ø | Ø | | | | | | | | | |
| | | | | min. | max. | | | min. | max. | | | |
| M5 | 4 | 9.8 | 10.2 | 35.2 | 38.3 | 2.9 | 6.7 | 32.3 | 35.4 | 23.9 | 10.5 | 8 |
| | 6 | 9.8 | 12.6 | 35.2 | 38.3 | 2.9 | 6.7 | 32.3 | 35.4 | 26 | 12.2 | 8 |
| R1/8 | 4 | 14.4 | 10.2 | 43.7 | 48.2 | 8 | 10.9 | 39.7 | 44.2 | 28.9 | 13 | 10 |
| | 6 | 14.4 | 12.6 | 43.7 | 48.2 | 8 | 10.9 | 39.7 | 44.2 | 31 | 14.2 | 10 |
| | 8 | 14.4 | 14.6 | 43.7 | 48.2 | 8 | 10.9 | 39.7 | 44.2 | 32.4 | 15.3 | 10 |
| R1/4 | 6 | 18.4 | 12.6 | 47.8 | 52.3 | 11.1 | 12 | 41.8 | 46.2 | 32.1 | 17.2 | 14 |
| | 8 | 18.4 | 14.6 | 47.8 | 52.3 | 11.1 | 12 | 41.8 | 46.2 | 33.6 | 18.2 | 14 |
| | 10 | 18.4 | 17.8 | 47.8 | 52.3 | 11.1 | 12 | 41.8 | 46.2 | 35.9 | 19.8 | 14 |
| R3⁄8 | 8 | 22 | 14.6 | 54.5 | 59 | 13.2 | 15.4 | 48.2 | 52.6 | 37.8 | 19.2 | 19 |
| | 10 | 22 | 17.8 | 54.5 | 59 | 13.2 | 15.4 | 48.2 | 52.6 | 40.1 | 20.2 | 19 |
| | 12 | 22 | 21.2 | 54.5 | 59 | 13.2 | 15.4 | 48.2 | 52.6 | 42.8 | 23.4 | 24 |
| R1/2 | 12 | 28 | 21.2 | 59.8 | 64.3 | 16 | 18.2 | 51.6 | 56.1 | 47 | 23.4 | 24 |

Differential pressure regulators LRLL Technical data

FESTO



| Screw-in thread | D2 | D5 | Н | 1 | H2 | H3 | H | 4 | L1 | D= |
|-----------------|----|------|------|------|------|------|------|------|------|----|
| D1 | Ø | Ø | min. | max. | | | min. | max. | | |
| M5 | 4 | 9.9 | 35.7 | 38.8 | 3.4 | 7.1 | 32.3 | 35.4 | 19.9 | 8 |
| | 6 | 12.4 | 35.7 | 38.8 | 3.4 | 8.3 | 32.3 | 35.4 | 24 | 8 |
| R1/8 | 4 | 10 | 44.5 | 48.5 | 8 | 9.5 | 40.5 | 44.5 | 21.5 | 10 |
| | 6 | 12.5 | 44.5 | 48.5 | 8 | 10.5 | 40.5 | 44.5 | 23.5 | 10 |
| | 8 | 14.5 | 44.5 | 48.5 | 8 | 11.5 | 40.5 | 44.5 | 27 | 10 |
| R1⁄4 | 6 | 12.5 | 48.5 | 52 | 11.5 | 12 | 42.5 | 46 | 25.5 | 14 |
| | 8 | 14.5 | 48.5 | 52 | 11.5 | 13 | 42.5 | 46 | 28.5 | 14 |
| | 10 | 17.5 | 48.5 | 52 | 18.5 | 15 | 42.5 | 46 | 31 | 14 |
| R3⁄8 | 8 | 14.5 | 56 | 59 | 13 | 15 | 49.5 | 52.5 | 29 | 19 |
| | 10 | 17.5 | 56 | 59 | 13 | 16.5 | 49.5 | 52.5 | 31 | 19 |
| | 12 | 21 | 56 | 59 | 13 | 18 | 49.5 | 52.5 | 37 | 24 |
| R1/2 | 12 | 21 | 62 | 64.5 | 16 | 19.5 | 54 | 56.5 | 36.5 | 24 |

Flow, non-return and regulating valves Pressure regulators

5.4

Differential pressure regulators LRL/LRLL Technical data



| Ordering data | | | | | |
|--------------------|-------------------------------------|------------|-----------------|----------|----------------|
| Circuit symbol | Description | Threaded | For tubing O.D. | Part No. | Туре |
| | | connection | | | |
| | | | [mm] | | |
| Outlet on top | | | | | |
| | With QS push-in connector | M5 | 4 | 153 510 | LRL-M5-QS-4 |
| <u>e</u> | and metric thread with sealing ring | | 6 | 153 512 | LRL-M5-QS-6 |
| | With QS push-in connector | R1⁄8 | 4 | 153 511 | LRL-1/8-QS-4 |
| | and PTFE-coated pipe thread | | 6 | 153 513 | LRL-1/8-QS-6 |
| l • U | | | 8 | 153 515 | LRL-1/8-QS-8 |
| | | R1⁄4 | 6 | 153 514 | LRL-1/4-QS-6 |
| | | | 8 | 153 516 | LRL-1/4-QS-8 |
| | | | 10 | 153 518 | LRL-1/4-QS-10 |
| | | R3⁄8 | 8 | 153 517 | LRL-3/8-QS-8 |
| | | | 10 | 153 519 | LRL-3/8-QS-10 |
| | | | 12 | 153 520 | LRL-3/8-QS-12 |
| | | R1/2 | 12 | 153 521 | LRL-1/2-QS-12 |
| | | | - | | |
| Outlet on the side | | | | | |
| | With QS push-in connector | M5 | 4 | 153 498 | LRLL-M5-QS-4 |
| | and metric thread with sealing ring | | 6 | 153 500 | LRLL-M5-QS-6 |
| | With QS push-in connector | R1⁄8 | 4 | 153 499 | LRLL-1/8-QS-4 |
| | and PTFE-coated pipe thread | | 6 | 153 501 | LRLL-1/8-QS-6 |
| | | | 8 | 153 503 | LRLL-1/8-QS-8 |
| | | R1⁄4 | 6 | 153 502 | LRLL-¼-QS-6 |
| | | | 8 | 153 504 | LRLL-1/4-QS-8 |
| | | | 10 | 153 506 | LRLL-1/4-QS-10 |
| | | R3⁄8 | 8 | 153 505 | LRLL-¾-QS-8 |
| | | | 10 | 153 507 | LRLL-3/8-QS-10 |
| | | | 12 | 153 508 | LRLL-¾-QS-12 |
| | | R1/2 | 12 | 153 509 | LRLL-1/2-QS-12 |

Flow, non-return and regulating valves
 Pressure regulators