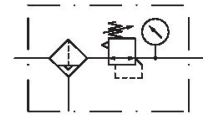


AVENTICS Series NL2 Air Preparation Units

The AVENTICS Series NL maintenance units are suitable for all areas: as individual components or as assembled maintenance units, for centralized or decentralized compressed air preparation, in compact or powerful versions, for use in high or low temperatures. This line offers a complete, customizable compressed air preparation technology. It includes an option to combine every component in the Series to achieve the desired function, making it possible to adjust the components precisely to the application requirements.



Technical data

| | |
|--------------------------|---|
| Industry | Industrial |
| Parts | Filter pressure regulator |
| Reservoir | reservoir, metal, with inspection glass |
| Port | G 3/8 |
| Nominal flow Qn | 1650 l/min |
| Filter porosity | 5 µm |
| Condensate drain | semi-automatic, open without pressure |
| Pressure gauge | with pressure gauge |
| Min. working pressure | 2 bar |
| Max. working pressure | 16 bar |
| Min. ambient temperature | -10 °C |
| Max. ambient temperature | 60 °C |
| Min. regulation range | 0.5 bar |
| Max. regulation range | 10 bar |
| Type | 1-part |
| Type | Can be assembled into blocks |
| Pressure supply | single |
| Mounting orientation | vertical |
| Regulator type | Diaphragm-type pressure regulator |

Filter pressure regulator, Series NL2-FRE

NL2

0821300332

2024-04-23

| | |
|--|---------------------------------|
| Regulator function | with relieving air exhaust |
| Filter element | exchangeable |
| Filter reservoir volume | 25 cm ³ |
| Max. achievable compressed air class acc. to ISO 8573-1:2010 | 6 : 7 : - |
| Medium | Compressed air Neutral gases |
| Weight | 0.717 kg |

Material

| | |
|------------------------|---------------------------------|
| Housing material | Die cast zinc |
| Seal material | Acrylonitrile butadiene rubber |
| Material front plate | Acrylonitrile butadiene styrene |
| Material reservoir | Die cast zinc |
| Material filter insert | Polyethylene |
| Part No. | 0821300332 |

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Also suitable for separation of fluid oil or water due to the design.

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

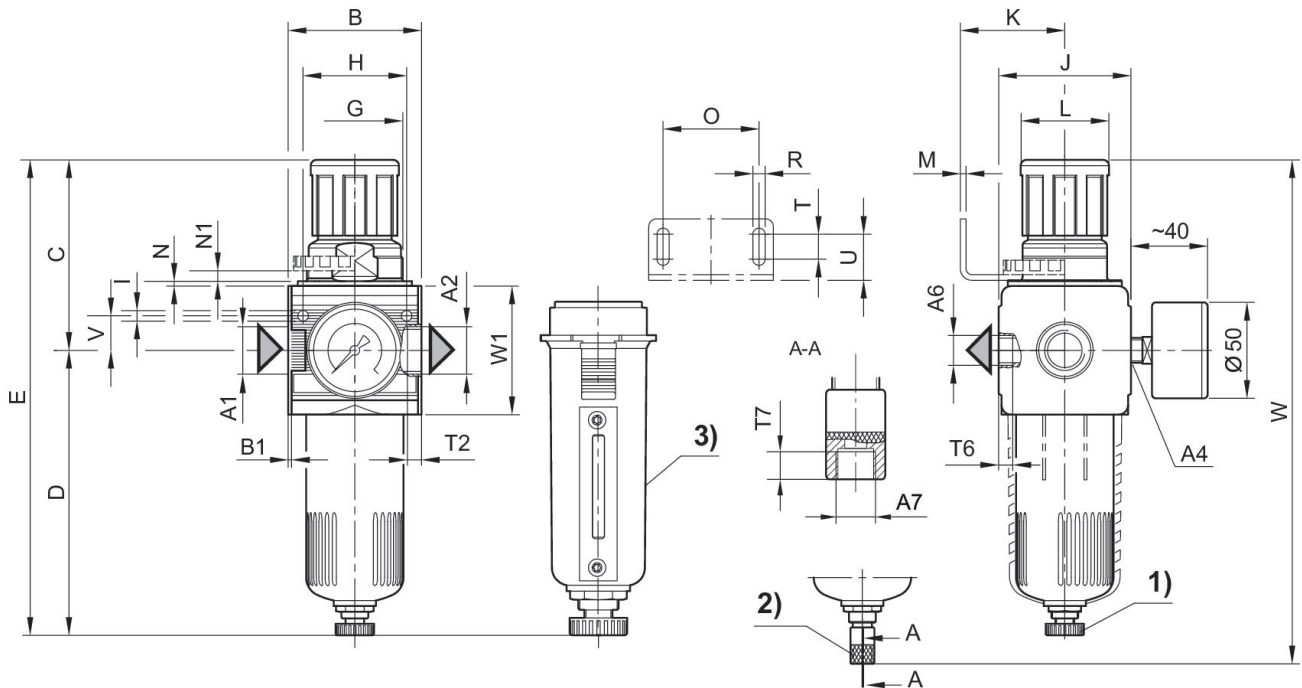
Filter pressure regulator, Series NL2-FRE

NL2

0821300332

2024-04-23

Dimensions



A1 = input A2 = output A6 = output

A7 = condensate drain

1) Semi-automatic condensate drain 2) fully automatic condensate drain

3) Metal reservoir

Dimensions in mm

| Part No. | A1 | A2 | A4 | A6 | A7 | B | B1 | C | D |
|------------|-------|-------|-------|-------|-------|----|-----|----|-------|
| 0821300300 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300301 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300302 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300303 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300304 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300307 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300308 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300305 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300330 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300331 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300332 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300333 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300334 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300335 | G 3/8 | G 3/8 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |

| Part No. | E | G | H | I | J | K | L | M | N |
|------------|-----|---------|----|-----|----|------|----|---|-----|
| 0821300300 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300301 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300302 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |

Filter pressure regulator, Series NL2-FRE

NL2

0821300332

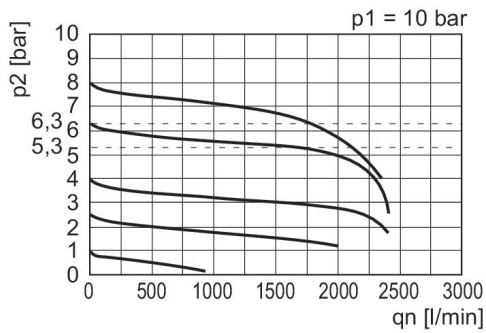
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| Part No. | E | G | H | I | J | K | L | M | N |
|------------|-----|---------|----|-----|----|------|----|---|-----|
| 0821300303 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300304 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300307 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300308 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300305 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300330 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300331 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300332 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300333 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300334 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |
| 0821300335 | 191 | M30x1,5 | 36 | 4.4 | 47 | 43.5 | 28 | 3 | 3.5 |

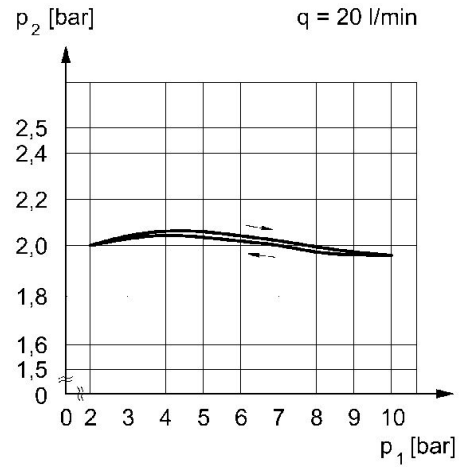
| Part No. | N1 | O | R | T | T2 | T6 | T7 | U | V |
|------------|----|----|-----|---|-----|----|-----|------|------|
| 0821300300 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300301 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300302 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300303 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300304 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300307 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300308 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300305 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300330 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300331 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300332 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300333 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300334 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |
| 0821300335 | 3 | 38 | 5.4 | 8 | 9.5 | 7 | 8.5 | 18.5 | 12.3 |

| Part No. | W | W1 |
|------------|-------|----|
| 0821300300 | 217.5 | 52 |
| 0821300301 | 217.5 | 52 |
| 0821300302 | 217.5 | 52 |
| 0821300303 | 217.5 | 52 |
| 0821300304 | 217.5 | 52 |
| 0821300307 | 217.5 | 52 |
| 0821300308 | 217.5 | 52 |
| 0821300305 | 217.5 | 52 |
| 0821300330 | 217.5 | 52 |
| 0821300331 | 217.5 | 52 |
| 0821300332 | 217.5 | 52 |
| 0821300333 | 217.5 | 52 |
| 0821300334 | 217.5 | 52 |
| 0821300335 | 217.5 | 52 |

Flow rate characteristic, $p_2 = 0,05 - 7$ bar Pressure characteristics curve



p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow



p_1 = working pressure p_2 = secondary pressure q = flow rate