

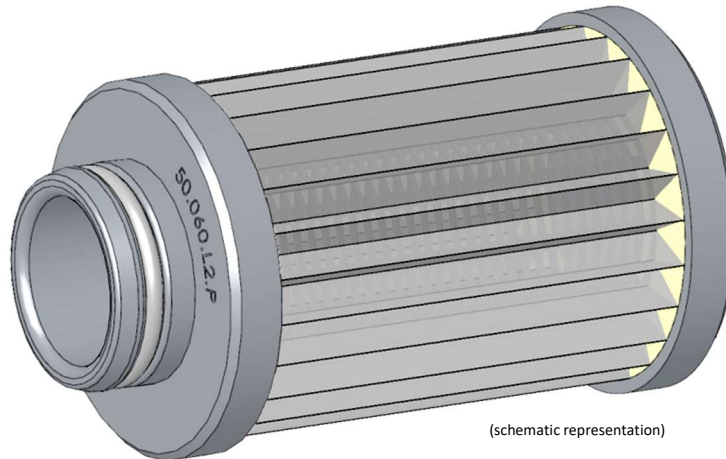
Elements for Series 4.121/221/225

Technical Data Sheet



Allocation/Use

- Single filter series 4.121 (DN 20...80)
- Twin filter series 4.225 (DN 20)
- Twin filter series 4.221 (DN 32...80)



(schematic representation)

Fields of application

Filtration of pressure fluids, lubricants, industrial fluids, gases and water.

Design

Star-pleated special filter material, longitudinally microplasma-welded with internal support tube. End caps glued. Sealing takes place via O-rings.

Cleaning

Cleanable?

Whether a filter element can be cleaned or not depends on the filter material:

In the standard version, wire mesh is used, which can be cleaned several times (see separate Data Sheet)

If other filter mediums were used upon customer request, they can generally not to be cleaned (applies amongst other materials for fleece and paper)

With proper cleaning (i.e. wire mesh and sealing compound remain unharmed), the number of cleaning cycles is only limited by the fact that, with time, contaminations increasingly become insolubly caught in the gauze, thus clogging the pores. The result is a growing pressure loss and the cleaning intervals become shorter.

The more fibrous, viscid and insoluble the dirt particles or the mediums to be filtered are, the more pronounced is this aging effect.

Cleaning equipment: We will be pleased to provide informative material about suitable cleaning equipment.

CAUTION:

Wire mesh consists of fine wire and must therefore be cleaned with care!

In order to achieve adequate filtration, there must not be any cracks or damaged points in the pleats of the filter material!

fluidtech® Filter elements

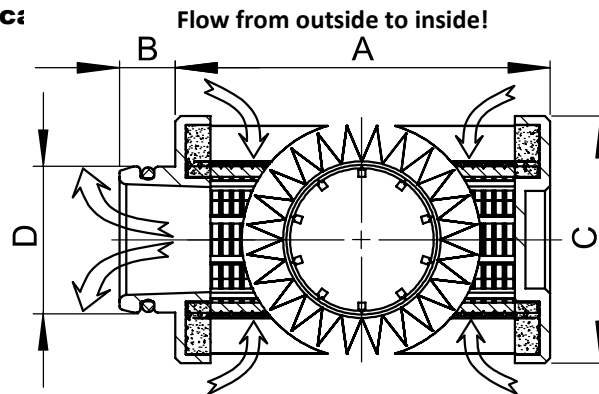
Elements for Series 4.121/221/225

Technical Data Sheet



Dimensions

Dimensions and technic:



Operating temperature: -10...120°C

| DN | Length code *Standard lengths | A [mm] | B [mm] | C [mm] | D [mm] | Filter surface approx. [cm ²] | Collapse pressure [bar] | Weight [kg] |
|----|----------------------------------|-----------|-----------|-----------|-----------|---|-------------------------------|----------------|
| 20 | L1* | 71 | 10 | 55 | 30 | 350 | 14 | 0.15 |
| | L2 | 106 | 10 | 55 | 30 | 580 | 14 | 0.20 |
| 32 | L1 | 106 | 16 | 71 | 42 | 765 | 30 | 0.35 |
| | L2* | 171 | 16 | 71 | 42 | 1,350 | 30 | 0.50 |
| 50 | L1 | 172 | 16 | 86.5 | 54 | 1,950 | 17 | 0.60 |
| | L2* | 252 | 16 | 86.5 | 54 | 3,000 | 17 | 0.90 |
| 80 | L1 | 252 | 15 | 122.5 | 82 | 4,620 | 6.4 | 1.20 |
| | L2* | 336 | 15 | 122.5 | 82 | 6,300 | 6.4 | 1.95 |

Materials

End caps: GK-ALSi12(Cu); others on request

Filter material: optimesh® wire mesh (10-100µm) made of 1.4401
precimesh® wire mesh (<10µm; >100µm) made of 1.4401
Optionally: Glass fibre paper; filter paper; metal fibre fleece (1.4404)

Seals: NBR, (alternatively FPM, special materials)

Sealing compound: 2K epoxy resin; others on request

Possible test certificates

- DIN ISO 2941 Fluid technology hydraulic filter elements, collapse and burst pressure test.
- DIN ISO 2942 Fluid technology filter elements, verification of flawless manufacturing quality.
- DIN ISO 2943 Fluid technology filter elements, verification of compatibility with the pressure fluid.
- DIN ISO 3723 Fluid technology hydraulic filter elements, procedure for testing the end cap load.
- ISO 3968 Hydraulic fluid power-filters-evaluation of pressure drop versus flow characteristics.

fluidtech® Filter elements

Elements for Series 4.121/221/225

Technical Data Sheet



Type code (ordering example)

The type code is found on the element head.

| | | | | |
|--|--|-----------|----------|-----------|
| 32 | 060 | L2 | P | St |
| End cap material (Standard GK-ALSi12(Cu)) | | | | |
| St | Steel | | | |
| VA | Stainless steel | | | |
| Other materials on request | | | | |
| Sealing material | | | | |
| P | NBR (Standard) | | | |
| V | FPM | | | |
| Other materials on request | | | | |
| Length code | | | | |
| L1 | Length for DN 20 (cast Al filter hoods) | | | |
| L2 | Standard length all sizes (cast Al filter hoods) | | | |
| Other lengths on request (welded filter hoods) | | | | |
| Filter fineness/medium | | | | |
| 005 | optimesh® wire mesh 5µm nominal, 10µm absolute | | | |
| 010 | optimesh® wire mesh 10µm nominal, 25µm absolute | | | |
| 015 | optimesh® wire mesh 15µm nominal, 34µm absolute | | | |
| 020 | optimesh® wire mesh 20µm nominal, 40µm absolute | | | |
| 025 | optimesh® wire mesh 25µm nominal, 60µm absolute | | | |
| 040 | optimesh® wire mesh 40µm nominal, 80µm absolute | | | |
| 060 | optimesh® wire mesh 60µm nominal, 100µm absolute | | | |
| 080 | precimesh® wire mesh 80µm nominal, 150µm absolute | | | |
| 100 | precimesh® wire mesh 100µm nominal, 200µm absolute | | | |
| 120 | precimesh® wire mesh 120µm nominal, 250µm absolute | | | |
| 150 | precimesh® wire mesh 150µm nominal, 300µm absolute | | | |
| xxx | Paper, glass fibre paper | | | |
| Other fineness grades on request | | | | |
| Nominal connection width/size DN | | | | |
| 20 / 32 / 50 / 80 | | | | |

fluidtech® Filter elements