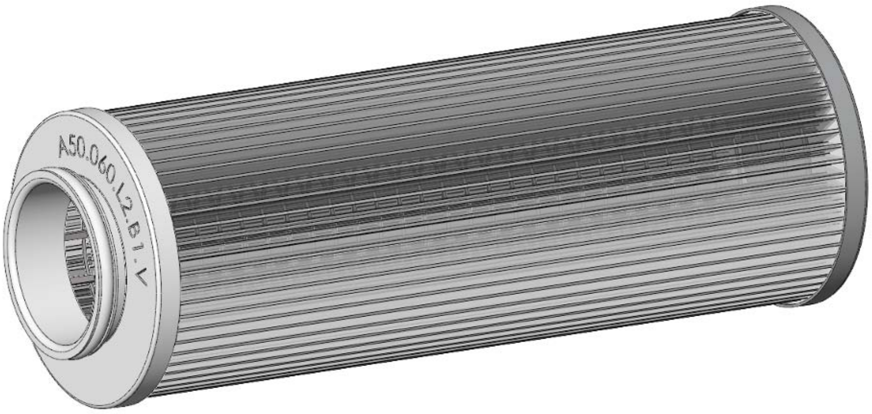
Elements for Series 4.222
Technical Data Sheet

fluidtech® Filter elements

Allocation/Use

- Double changeover filter series 4.222 (DN 25/40/50)
- Double changeover filter series 4.212 (DN 25)



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!

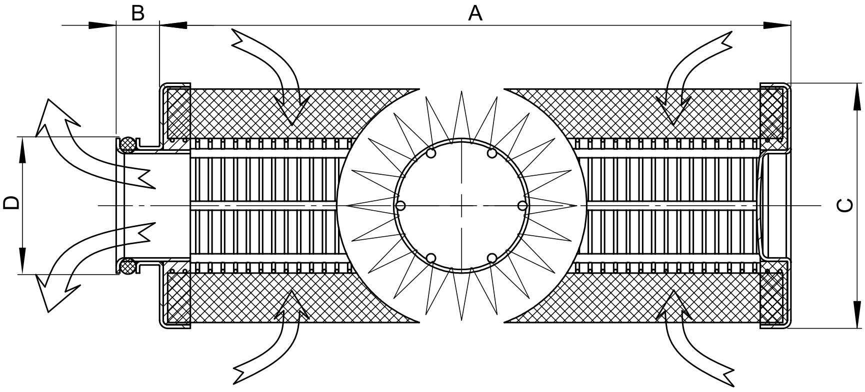
FRIEDRICHS FILTERSYSTEME GMBH
P.O. Box 1248 • 41846 Wassenberg • Tel. +49-2432-9660-0 • Fax +49-2432-9660-90
Web: www.friedrichsfilter.de • E-mail: info@friedrichsfilter.de

Elements for Series 4.222
Technical Data Sheet

fluidtech® Filter elements

Dimensions

Flow from outside to inside!



Dimensions and technical data

Operating temperature: -10...120°C

DN	Length code	A [mm]	B [mm]	C [mm]	D [mm]	Filter surface approx. [cm²]	Collapse pressure [bar]	Weight [kg]
25	L1.B2	66.5	9.6	54.6	30	465	14	0.16
	L2.B2	140.5	9.6	54.6	30	1020	14	0.26
	L3.B2	207.5	9.6	54.6	30	1522	14	0.35
40	L2.B1	248.6	10	78.6	48	2800	22	0.75
	L2.B2	248.6	10	78.6	48	5200	22	1.10
50	L2.B1	248.6	11	91.4	58	4050	13	0.96
	L3.B1	366,0	11	91,4	58	6000	13	1,21
	L3.B2	366,0	11	91,4	58	7726	13	1,47

Materials

End caps: Galvanised sheet steel (others on request)

Filter material: optimesh® wire mesh (10-100µm) made of 1.4401
precimesh® wire mesh (<10µm; >100µm) made of 1.4401
optional: 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 hydraulic 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.

FRIEDRICHS FILTERSYSTEME GMBH
P.O. Box 1248 • 41846 Wassenberg • Tel. +49-2432-9660-0 • Fax +49-2432-9660-90
Web: www.friedrichsfilter.de • E-mail: info@friedrichsfilter.de

Elements for Series 4.222
Technical Data Sheet

fluidtech® Filter elements

Type code (ordering example)

The type code is found on the element head.

A | 40 . 060 . L2 . B1 - V

Sealing material	
P	NBR (Standard)
V	FPM
Other materials on request	

Filter area	
Bx	See table on page 2
Others on request	

Length code	
L2	Standard length all sizes (cast Al filter hoods)
L3	Length for DN 25 (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 [mm]
25 / 40 / 50

Series	
A	Element for Double Changeover filter type 4.222

FRIEDRICHS FILTERSYSTEME GMBH
P.O. Box 1248 • 41846 Wassenberg • Tel. +49-2432-9660-0 • Fax +49-2432-9660-90
Web: www.friedrichsfilter.de • E-mail: info@friedrichsfilter.de