4.225
DOUBLE CHANGEOVER FILTER

DESCRIPTION

Double Changeover Filter with sideways arrangement and 90° connection

MATERIALS

Housing, switchover element and hoods: GK-Al Aluminium
Bypass valve: n.a.
Seals: NBR Nitrile (FKM Fluor elastomer - on request)
Filter elements: see separately available data sheet (Filter elements Type B)
Differential pressure indicator housing: AlSi 10 (Mg) hard-coated
Special materials upon request

PRESSURE

Max. working: 1,6 MPa (16 bar)
Collapse differential pressure of the filter element 14 bar

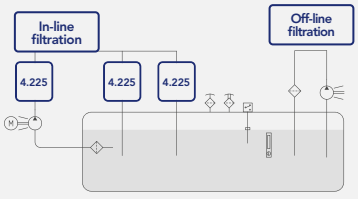
FLOW RATE

From 30 to 70 l/min depending on the specification

WORKING TEMPERATURE

From -10° to +120°C

HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website.

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ORDERING AND OPTION CHART

TYPE CODE (ordering example). The type code can be found on the type plate.

DF 4.225 . B20 . 060 . L1 . V . 5.02-2,0

deltaP® Differential pressure indicator

5.02-2,0	The standard filters are equipped with a deltaP® differential pressure indicator type 5.02 (see separate data sheet). Other deltaP® types on request – ask for our brochure.

Sealing material

P	NBR (Standard)
V	FKM
Other materials on request	

Length code

L1	Standard length
Other installation 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

Nominal connection width/size

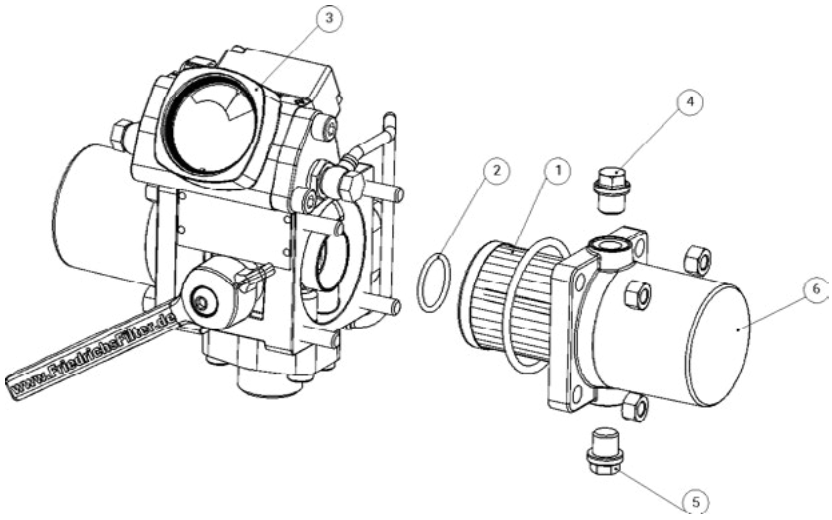
20

Series

DF 4.225	fluidtech® switch filter type 4.225

SERIES 4.225
DOUBLE CHANGEOVER FILTER

SPARE PARTS



Pos.	Description	Quantity	DN20
1	Filter element	**2**	type no. written on the filter element
2	Gasket for filter element	1	no.120
3	Differential pressure indicator	1	Type, measuring range and switch from display to specify
4	Vent screew	2	DIN 910 – G1/4
5	Drain scree	2	DIN 910 – G1/4
6	Filter hood	2	L1 other on request
7*	Gasket set NBR	1	Order no: 135321
7.1*	Gasket set FPM	1	Order no: 137928

*not depictured

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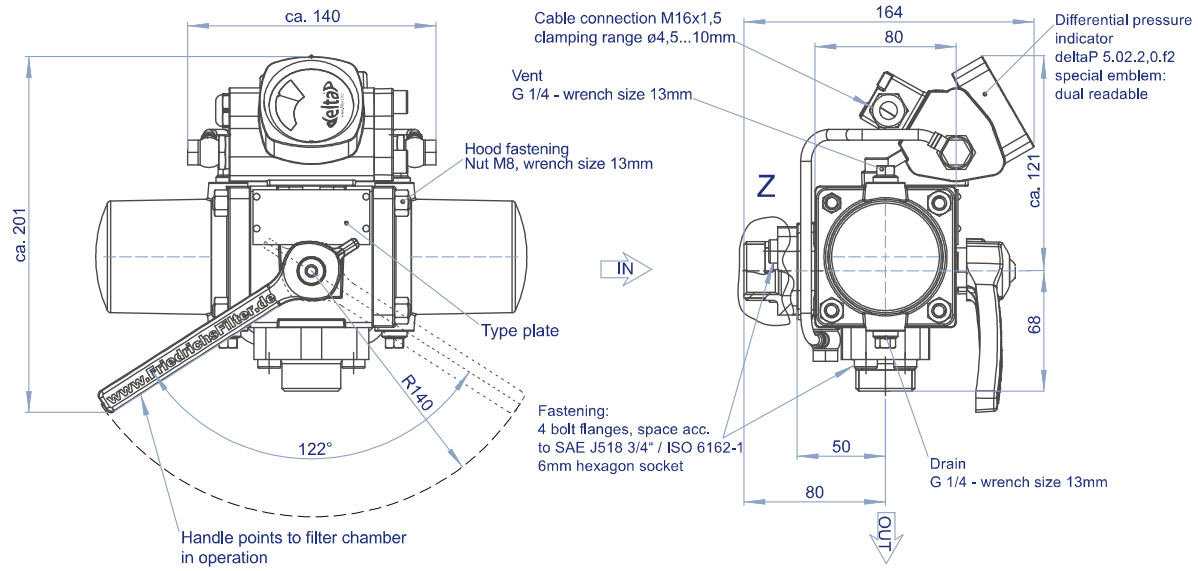
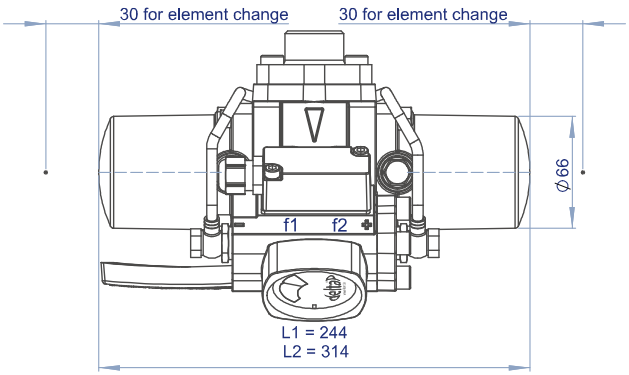
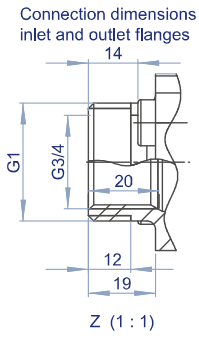
DIMENSIONS







FILTER DATA

DN	Length code	Flow rate* V [l/min]	Filter area per filter element [cm²]	Weight of empty filter incl. filter elements [kg]
20	L1	**70**	434	3.2

*applies for recommended max. flow speed of 3m/sat the nominal width.

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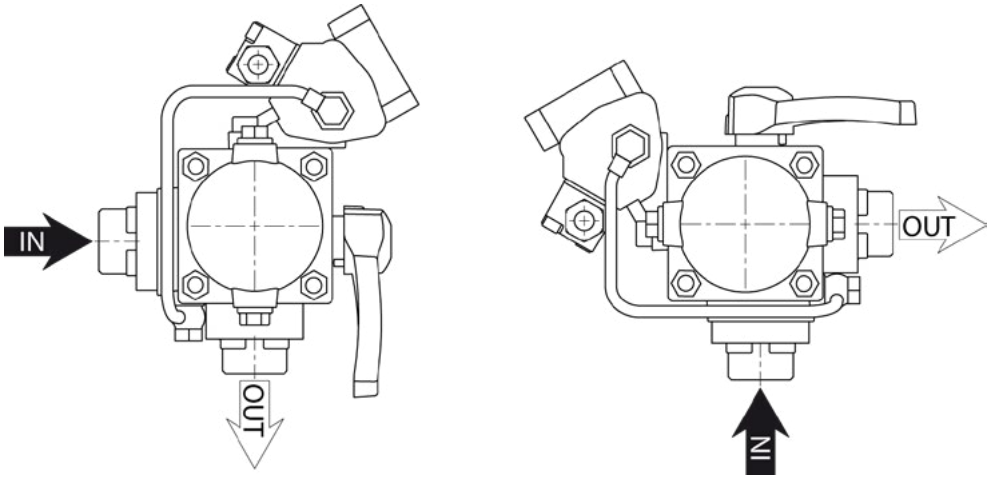
DESIGN DATA

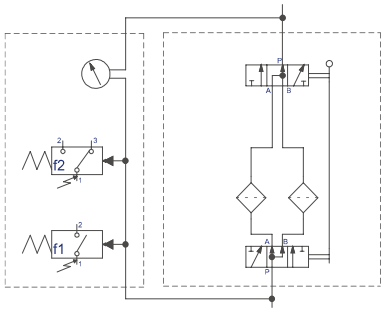
The filter unit is designed, built and tested in compliance with the European Pressure Equipment Directive 2014/68/EU and the German Equipment Safety Law

WORKING PRINCIPLE

The filter is used to separate contaminant particles from the operating fluid in the hydraulic system (e.g. lubricating oil) and is designed for continuous filtration. Normally one filter chamber is in use, while the other one is in standby, filled with fluid and fitted with a clean filter element. In the event of heavy contamination of the operating element, the standby element can be manually switched to.
An overlapping changeover between the two filter chambers can ensure uninterrupted media flow. After changeover, the contaminated filter element must be removed, cleaned or replaced and reinstalled to provide a standby chamber for the next changeover.

INSTALLATION DRAWING



The differential pressure indicator can be read in both installation positions.
Fastening only takes place by means of the flanges at the connection pipes.
A separate fastening to the housing is not provided for.

SCHEMATIC DIAGRAM