



# DF 4.222

## DOUBLE FILTER IN-LINE

### DESCRIPTION

Double in-line changeover filter

### MATERIALS

Housing: EN-GJL-250  
Filter hood: GK-AlSi12 (Cu)  
Seals: NBR Nitrile (FKM Fluor elastomer - on request)  
Filter elements: see separately available data sheet (FE A)  
Differential Pressure Indicator housing: AlSi10 (Mg) hard-coated  
Special materials upon request

### PRESSURE

Max. working: 1,6 MPa (16 bar) – 4 MPa (40 bar) on request  
Collapse differential pressure of the filter element 13 to 22 bar, depending on the diameter

### FLOW RATE

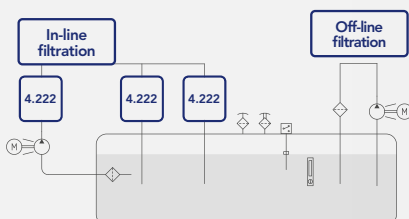
From 65 up to 360 l/min depending on the specification

### WORKING TEMPERATURE

From -10° to +120°C



### HYDRAULIC DIAGRAM



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

# DF 4.222

## DOUBLE FILTER IN-LINE

### ORDERING AND OPTION CHART

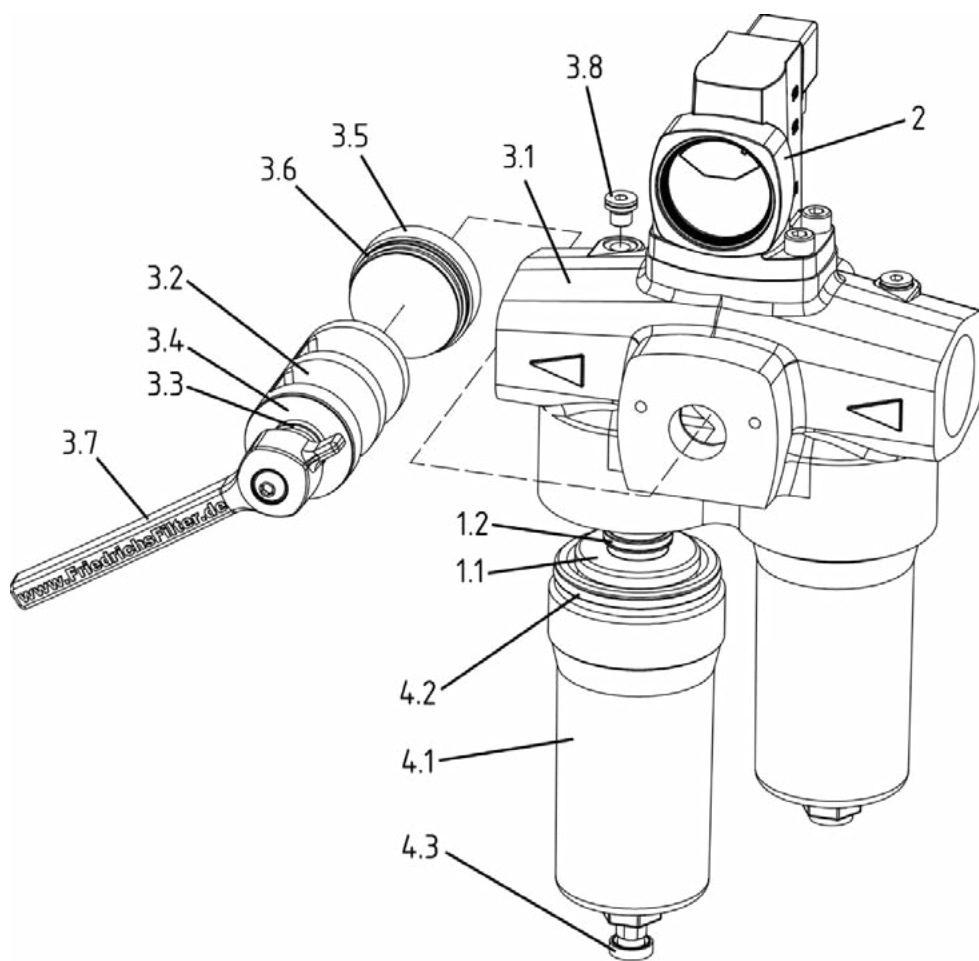
Type code (ordering example). The type code can be found on the type plate.

<b>DF</b> 4.222	<b>A50</b>	<b>060</b>	<b>L2</b>	<b>V</b>	<b>RL</b>	<b>5.02-2,0</b>	
							<b>deltaP® Differential pressure indicator</b>
						<b>5.02-2,0</b>	In their standard version the filters feature a deltaP® differential pressure indicator type 5.22 (the designation can be found in the separate data sheet). Other deltaP® types on request - please ask for our brochure.
							<b>Direction of flow</b>
					<b>RL</b>		Flow from right to left
					<b>LR</b>		Flow from left to right
							<b>Sealing material</b>
					<b>P</b>		NBR (Standard)
					<b>V</b>		FKM
							Other materials on request
							<b>Installation length code</b>
			<b>L2</b>				Standard installation length all sizes (cast aluminium filter hoods)
			<b>L3</b>				Installation length currently available for DN 25 (cast aluminium filter hoods)
							Other installation lengths on request (welded filter hoods)
							<b>Filter fineness/medium</b>
					<b>005</b>		optimesh® wire mesh 5µm nominal, 10µm absolute
					<b>010</b>		optimesh® wire mesh 10µm nominal, 25µm absolute
					<b>015</b>		optimesh® wire mesh 15µm nominal, 34µm absolute
					<b>020</b>		optimesh® wire mesh 20µm nominal, 40µm absolute
					<b>025</b>		optimesh® wire mesh 25µm nominal, 60µm absolute
					<b>040</b>		optimesh® wire mesh 40µm nominal, 80µm absolute
					<b>060</b>		optimesh® wire mesh 60µm nominal, 100µm absolute
					<b>080</b>		precimesh® wire mesh 80µm nominal, 150µm absolute
					<b>100</b>		precimesh® wire mesh 100µm nominal, 200µm absolute
					<b>120</b>		precimesh® wire mesh 120µm nominal, 250µm absolute
					<b>150</b>		precimesh® wire mesh 150µm nominal, 300µm absolute
					<b>xxx</b>		Paper, glass fibre paper
							<b>Connection nominal diameter / installation size DN [mm] Typ A</b>
							25 / 40 / 50
							<b>Series</b>
					<b>DF 4.222</b>		fluidtech® double changeover filter type 4.222

# DF 4.222

## DOUBLE FILTER IN-LINE

### SPARE PARTS



# DF 4.222

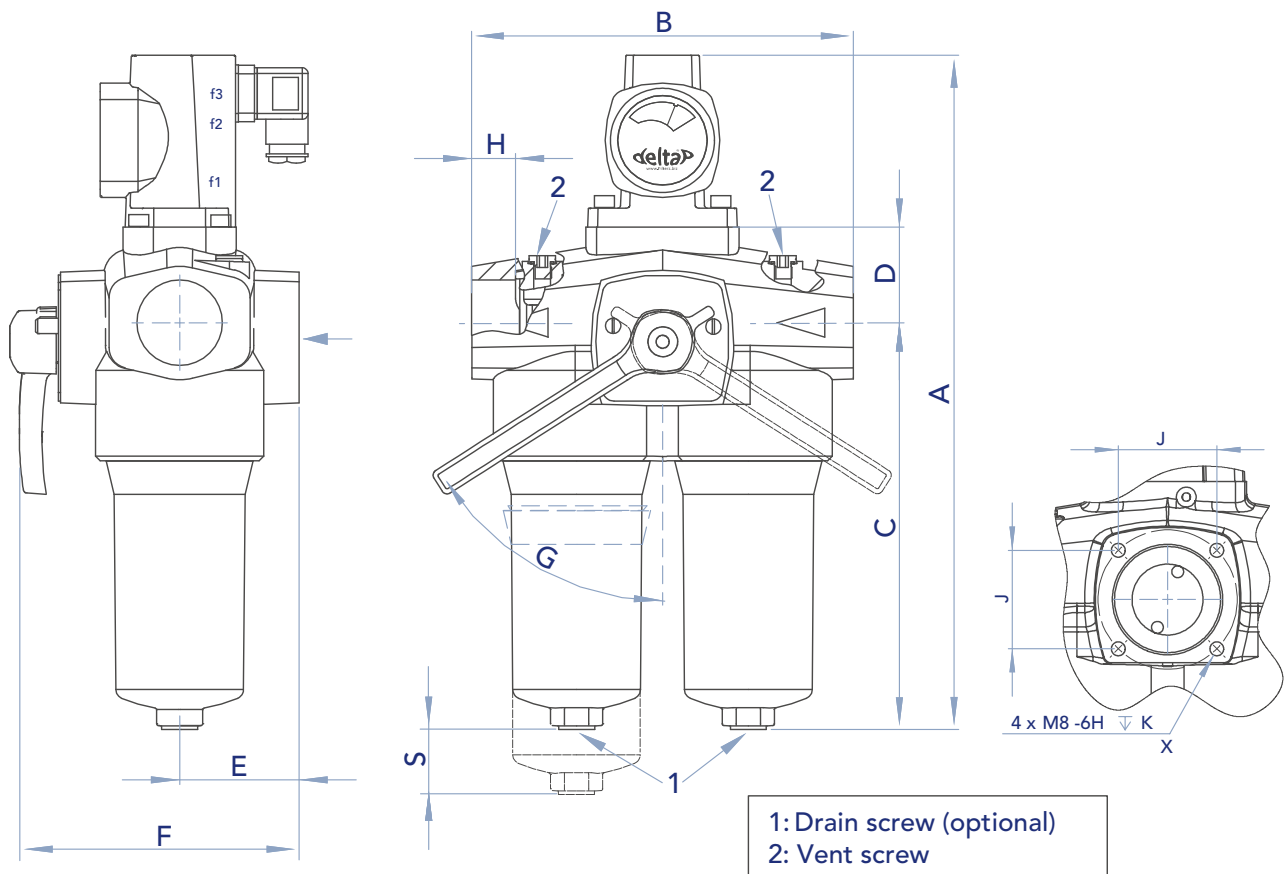
## DOUBLE FILTER IN-LINE

Pos.	Incl.	Description	Amount	DN25 (1")	DN40 1 1/2"	DN65 2 1/2"	Contained in gasket set
<b>1</b>		<b>Filter element (2 pcs.)</b>		order number on the filter element			-
	1.1	filter element	2	on request			-
	1.2	gasket for filter element	2	213	ø 42,00 x 3,50	ø50,00 x 4,50	2
<b>2</b>		<b>Differential pressure indicator, ready for connection</b>					-
	2.1	differential pressure indicator, Type 5.22	1	5.22, measuring range and contact description marked on display			-
	2.2	screw set	4	DIN 912 M8 x 20			-
	2.3	gasket for differential pressure indicator	1	123			-
	2.4	Measuring spring	1		appropriate to the measuring range		-
	2.5	Piston	1				-
	2.6	gasket for differential pressure indicator	1	107			-
<b>3</b>		<b>Housing, complete</b>					-
	3.1	Filter housing	1				-
	3.2	Rotary	1				-
	3.3	Seal for rotary	1	211	319	319	1
	3.4	Rotary shaft seal	1				-
	3.5	Housing plugs	1				-
	3.6	Gasket for casing-plug	1	133	ø59,50 x 3,00	ø70,00 x 3,00	1
	3.7	Switch lever	1				-
	3.8	Screw plug, breather	2	HN-8WD G 1/8"			-
<b>4</b>		<b>Filter hood, complete (2 pcs.)</b>					-
	4.1	filter hood	1	DN and L1, L2 or L3			-
	4.2	gasket for filter hood	1	231			2
	4.3	screw plug	1	HN-8WD G 1/4"			-

# DF 4.222

## DOUBLE FILTER IN-LINE

### DIMENSIONS



# DF 4.222

## DOUBLE FILTER IN-LINE

### CONNECTION DIMENSIONS

	DN25	DN40	DN50/65
Connection	Thread G1 ½ (Standard)		
	For flange SAEJ518DN25-3 (optional)	For flange SAEJ518DN51-3	For flange SAEJ518DN64-3
Hole	26,2 x 54,4	42,9 x 77,8	50,8 x 88,9
Thread	M10x20	M12x24	M12x24

\*Standard

### FILTER DIMENSIONS

DN	Model	Flow rate* Q [l/min] B1 B2	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [°]	H Thread depth [mm]	J [mm]	K [mm]	S≈ [mm]	Mass [kg]	Mass [kg]
25	L2	-	65	351	200	211	50	62.5	153	57.5°	25	50	10	60	9
25	L3	-	90	418	200	278	50	62.5	153	57.5°	25	50	10	60	10
40	L2	150	230	500	280	333	77	85	227	57.5°	N/A	60	12	70	19
50/65	L2	290	-	517	300	339	87.5	93.5	248	60°	N/A	65	12	70	21.5
50/65	L3	-	360	635	300	463	87.5	93.5	248	60°	N/A	65	12	70	24.9

\*These specifications refer to the oil medium ISO VG 460 with a grade filtration of 25µm. Pressure loss Δp ca. 0,6bar at clean conditions.

DN	Installation length code	Smallest flow cross-section [mm]	Total volume [dm³]
25	L2	ø 23.20	1.40
25	L3	ø 23.20	2.00
40	L2	ø 39.80	4.70
50/65	L2	ø 49.10	7.10
50/65	L3	ø 49.10	7.60

### 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.

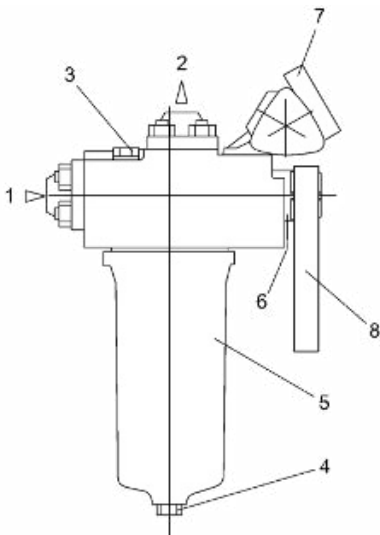
# DF 4.222

## DOUBLE FILTER IN-LINE

### WORKING PRINCIPLE

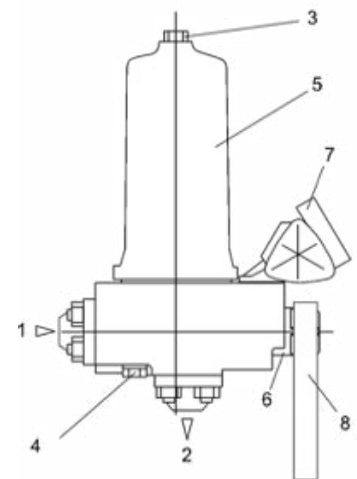
The filter is used to separate contaminant particles from the operating fluid in the hydraulic system (e.g. lubricating oil) and is designed for continuous filtration. Normally one filter chamber is in use, while the other one is in standby, filled with fluid and fitted with a clean filter element. In 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

### WORKING PRINCIPLE



**Legend:**

- 1: Inlet
- 2: Outlet
- 3: Vent screw
- 4: Drain plug
- 5: Filter hood
- 6: Change over element
- 7: Differential pressure indicator



### SCHEMATIC DIAGRAM

