

# LDP & LDD series

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Maximum pressure up to 60 bar - Flow rate up to 330 l/min

# DIN 24550

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Filter element according to DIN 24550

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# FILTER SIZING

The correct filter sizing have to be based on the variable pressure drop depending by the application. For example, for the return filter the pressure drop have to be in the range 0.4 - 0.6 bar.

The pressure drop calculation is performed by adding together the value of the housing with the value of the filter element. The pressure drop in the housing is proportional to the fluid density ( $\text{kg}/\text{dm}^3$ ); all the graphs in the catalogue are referred to mineral oil with density of  $0.86 \text{ kg}/\text{dm}^3$ .

The filter element pressure drop is proportional to its viscosity ( $\text{mm}^2/\text{s}$ ), the corrective factor Y is related to an oil viscosity different than  $30 \text{ mm}^2/\text{s}$ .

## Sizing data for single cartridge, head at top

$\Delta p_c$  = Filter housing pressure drop [bar]

$\Delta p_e$  = Filter element pressure drop [bar]

**Y** = Multiplication factor Y (see correspondent table), depending on the filter element size, on the filter element lenght and on the filter media

**Q** = flow rate ( $\text{l}/\text{min}$ )

**V1 reference viscosity** =  $30 \text{ mm}^2/\text{s}$  (cSt)

**V2** = operating viscosity in  $\text{mm}^2/\text{s}$  (cSt)

$\Delta p_e = Y : 1000 \times Q \times (V2/V1)$

$\Delta p_{\text{Tot.}} = \Delta p_c + \Delta p_e$

## Calculation examples with HLP Mineral oil Variation in viscosity

**Application data:**

Top tank return filter

Filter with in-line connections

Pressure  $P_{\text{max}} = 10 \text{ bar}$

Flow rate  $Q = 120 \text{ l}/\text{min}$

Viscosity  $V_2 = 46 \text{ mm}^2/\text{s}$  (cSt)

Oil viscosity =  $0.86 \text{ kg}/\text{dm}^3$

Required filtration efficiency =  $25 \mu\text{m}$  with absolute filtration

With bypass valve and  $1 \frac{1}{4}$ " inlet connection

From the working pressure and the flow rate we understand it should be possible using the following top tank return filter series: MPT, MPH and FRI. Let's proceed with MPT series.

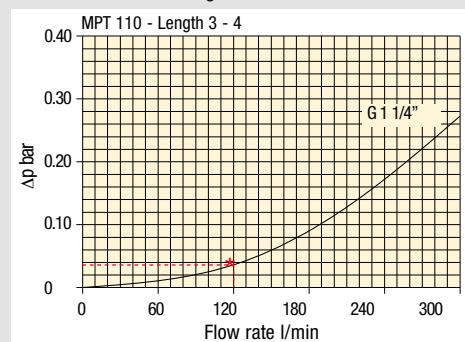
The size 20 doesn't achieve the required flow rate, therefore we have to consider the size 100. The final version of size 100 (101, 104, 110, 120 and 114) will be then defined in function of the mounting characteristics.

**$\Delta p_c = 0.03 \text{ bar}$**  (★ see graphic below, considering size 100 with the max available lenght to get the lowest pressure drop)

**$\Delta p_e = (2.0 : 1000) \times 120 \times (46/30) = 0.37 \text{ bar}$**

**$\Delta p_{\text{Tot.}} = 0.03 + 0.37 = 0.4 \text{ bar}$**

The selection is correct because the total pressure drop value is inside the admissible range for top tank return filters. It is of course possible trying to find a different solution, according to the mounting position or to other commercial need, repeating the previous steps while using a different series or lenght.



## Filter housings $\Delta p$ pressure drop.

The curves are plotted using mineral oil with density of  $0.86 \text{ kg}/\text{dm}^3$  in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

# Corrective factor

**Corrective factor Y, to be used for the filter element pressure drop calculation.**

**The values depend to the filter size and lenght and to the filter media.**

Reference viscosity  $30 \text{ mm}^2/\text{s}$

## Return filters

Filter element	Absolute filtration H Series					Nominal filtration N Series			
	Type	A03	A06	A10	A16	A25	P10	P25	M25 M60 M90
<b>MF 020</b>	1	74.00	50.08	20.00	16.00	9.00	6.43	5.51	4.40
	2	29.20	24.12	8.00	7.22	5.00	3.33	2.85	2.00
	3	22.00	19.00	6.56	5.33	4.33	1.68	1.44	1.30
<b>MF 030</b> <b>MFX 030</b>	1	74.00	50.08	20.00	16.00	9.00	6.43	5.51	3.40
<b>MF 100</b> <b>MFX 100</b>	1	28.20	24.40	8.67	8.17	6.88	4.62	3.96	1.25
	2	17.33	12.50	6.86	5.70	4.00	3.05	2.47	1.10
	3	10.25	9.00	3.65	3.33	2.50	1.63	1.32	0.96
	4	6.10	5.40	2.30	2.20	2.00	1.19	0.96	0.82
<b>MF 180</b> <b>MFX 180</b>	1	3.67	3.05	1.64	1.56	1.24	1.18	1.06	0.26
<b>MF 190</b> <b>MFX 190</b>	2	1.69	1.37	0.68	0.54	0.51	0.43	0.39	0.12
	1	1.69	1.37	0.60	0.49	0.44	0.35	0.31	0.11
<b>MF 400</b> <b>MFX 400</b>	1	3.20	2.75	1.39	1.33	1.06	0.96	0.87	0.22
	2	2.00	1.87	0.88	0.85	0.55	0.49	0.45	0.13
	3	1.90	1.60	0.63	0.51	0.49	0.39	0.35	0.11
<b>MF 750</b> <b>MFX 750</b>	1	1.08	0.84	0.49	0.36	0.26	0.21	0.19	0.06
<b>CU 025</b>		78.00	48.00	28.00	24.00	9.33	9.33	8.51	1.25
<b>CU 040</b>		25.88	20.88	10.44	10.00	3.78	3.78	3.30	1.25
<b>CU 100</b>		15.20	14.53	5.14	4.95	2.00	2.00	0.17	1.10
<b>CU 250</b>		3.25	2.55	1.55	1.35	0.71	0.71	0.59	0.25
<b>CU 630</b>		1.96	1.68	0.85	0.72	0.42	0.42	0.36	0.09
<b>CU 850</b>		1.06	0.84	0.42	0.33	0.17	0.17	0.13	0.04
<b>MR 100</b>	1	19.00	17.00	6.90	6.30	4.60	2.94	2.52	1.60
	2	11.70	10.80	4.40	4.30	3.00	2.94	2.52	1.37
	3	7.80	6.87	3.70	3.10	2.70	2.14	1.84	1.34
	4	5.50	4.97	2.60	2.40	2.18	1.72	1.47	1.34
	5	4.20	3.84	2.36	2.15	1.90	1.60	1.37	1.34
<b>MR 250</b>	1	5.35	4.85	2.32	1.92	1.50	1.38	1.20	0.15
	2	4.00	3.28	1.44	1.10	1.07	0.96	0.83	0.13
	3	2.60	2.20	1.08	1.00	0.86	0.77	0.64	0.12
	4	1.84	1.56	0.68	0.56	0.44	0.37	0.23	0.11
<b>MR 630</b>	1	3.10	2.48	1.32	1.14	0.92	0.83	0.73	0.09
	2	2.06	1.92	0.82	0.76	0.38	0.33	0.27	0.08
	3	1.48	1.30	0.60	0.56	0.26	0.22	0.17	0.08
	4	1.30	1.20	0.48	0.40	0.25	0.21	0.16	0.08
	5	0.74	0.65	0.30	0.28	0.13	0.10	0.08	0.04
<b>MR 850</b>	1	0.60	0.43	0.34	0.25	0.13	0.12	0.09	0.03
	2	0.37	0.26	0.23	0.21	0.11	0.08	0.07	0.03
	3	0.27	0.18	0.17	0.17	0.05	0.04	0.04	0.02
	4	0.23	0.16	0.13	0.12	0.04	0.03	0.03	0.02

**Corrective factor Y, to be used for the filter element pressure drop calculation.**

The values depend to the filter size and lenght and to the filter media.

Reference viscosity 30 mm<sup>2</sup>/s

### Suction filters

Filter element	Nominal filtration N Series	
	P10	P25
<b>SF 250</b>	65	21

### Return / Suction filters

Filter element	Absolute filtration		
	A10	A16	A25
<b>RSX 116</b>	1   5.12	4.33	3.85
	2   2.22	1.87	1.22
<b>RSX 165</b>	1   2.06	1.75	1.46
	2   1.24	1.05	0.96
	3   0.94	0.86	0.61

### Low & Medium pressure filters

Filter element	Absolute filtration N-W Series					Nominal filtration N Series		
	A03	A06	A10	A16	A25	P10	P25	M25
<b>CU 110</b>	1   16.25	15.16	8.75	8.14	5.87	2.86	2.65	0.14
	2   12.62	10.44	6.11	6.02	4.15	1.60	1.49	0.12
	3   8.57	7.95	5.07	4.07	2.40	1.24	1.15	0.11
	4   5.76	4.05	2.80	2.36	1.14	0.91	0.85	0.05
<b>CU 210</b>	1   5.30	4.80	2.00	1.66	1.32	0.56	0.43	0.12
	2   3.44	2.95	1.24	1.09	0.70	0.42	0.35	0.09
	3   2.40	1.70	0.94	0.84	0.54	0.33	0.23	0.05
<b>DN</b>	016   7.95	7.20	3.00	2.49	1.98	0.84	0.65	0.18
	025   5.00	4.53	1.89	1.57	1.25	0.53	0.41	0.11
	040   3.13	2.66	1.12	0.98	0.63	0.38	0.32	0.08
<b>CU 400</b>	2   3.13	2.55	1.46	1.22	0.78	0.75	0.64	0.19
	3   2.15	1.70	0.94	0.78	0.50	0.40	0.34	0.10
	4   1.60	1.28	0.71	0.61	0.40	0.34	0.27	0.08
	5   1.00	0.83	0.47	0.34	0.20	0.24	0.19	0.06
	6   0.82	0.58	0.30	0.27	0.17	0.22	0.18	0.05
	<b>CU 900</b>   1   0.86	0.63	0.32	0.30	0.21	-	-	0.05
<b>CU 950</b>	2   1.03	0.80	0.59	0.40	0.26	-	-	0.05
	3   0.44	0.40	0.27	0.18	0.15	-	-	0.02
<b>MR 630</b>	7   0.88	0.78	0.36	0.34	0.16	0.12	0.96	0.47

# FILTER SIZING Corrective factor

**Corrective factor Y, to be used for the filter element pressure drop calculation.**

**The values depend to the filter size and lenght and to the filter media.**

Reference viscosity 30 mm<sup>2</sup>/s

## High pressure filters

Filter element	Absolute filtration N - R Series					Nominal filtration N Series
	A03	A06	A10	A16	A25	
Type	A03	A06	A10	A16	A25	M25
<b>HP 011</b>	1 332.71	250.07	184.32	152.36	128.36	-
	2 220.28	165.56	74.08	59.13	37.05	-
	3 123.24	92.68	41.48	33.08	20.72	-
	4 77.76	58.52	28.37	22.67	16.17	-
<b>HP 039</b>	1 70.66	53.20	25.77	20.57	14.67	4.90
	2 36.57	32.28	18.00	13.38	8.00	2.90
	3 26.57	23.27	12.46	8.80	5.58	2.20
<b>HP 050</b>	1 31.75	30.30	13.16	12.3	7.29	1.60
	2 24.25	21.26	11.70	9.09	4.90	1.40
	3 17.37	16.25	8.90	7.18	3.63	1.25
	4 12.12	10.75	6.10	5.75	3.08	1.07
	5 7.00	6.56	3.60	3.10	2.25	0.80
<b>HP 065</b>	1 58.50	43.46	23.16	19.66	10.71	1.28
	2 42.60	25.64	16.22	13.88	7.32	1.11
	3 20.50	15.88	8.18	6.81	3.91	0.58
<b>HP 135</b>	1 20.33	18.80	9.71	8.66	4.78	2.78
	2 11.14	10.16	6.60	6.38	2.22	1.11
	3 6.48	6.33	3.38	3.16	2.14	1.01
<b>HP 320</b>	1 10.88	9.73	5.02	3.73	2.54	1.04
	2 4.40	3.83	1.75	1.48	0.88	0.71
	3 2.75	2.11	1.05	0.87	0.77	0.61
	4 2.12	1.77	0.98	0.78	0.55	0.47
<b>HP 500</b>	1 4.44	3.67	2.30	2.10	1.65	0.15
	2 3.37	2.77	1.78	1.68	1.24	0.10
	3 2.22	1.98	1.11	1.09	0.75	0.08
	4 1.81	1.33	0.93	0.86	0.68	0.05
	5 1.33	1.15	0.77	0.68	0.48	0.04

## Stainless steel high pressure filters

Filter element	Absolute filtration N Series				
	A03	A06	A10	A16	A25
Type	A03	A06	A10	A16	A25
<b>HP 011</b>	1 332.71	250.07	184.32	152.36	128.36
	2 220.28	165.56	74.08	59.13	37.05
	3 123.24	92.68	41.48	33.08	20.72
	4 77.76	58.52	28.37	22.67	16.17
<b>HP 039</b>	2 70.66	53.20	25.77	20.57	14.67
	3 36.57	32.28	18.00	13.38	8.00
	4 26.57	23.27	12.46	8.80	5.58
<b>HP 050</b>	1 31.75	30.30	13.16	12.3	7.29
	2 24.25	21.26	11.70	9.09	4.90
	3 17.37	16.25	8.90	7.18	3.63
	4 12.12	10.75	6.10	5.75	3.08
	5 7.00	6.56	3.60	3.10	2.25
<b>HP 135</b>	1 20.33	18.80	9.71	8.66	4.78
	2 11.14	10.16	6.60	6.38	2.22
	3 6.48	6.33	3.38	3.16	2.14
Filter element	Absolute filtration H - U Series				
	A03	A06	A10	A16	A25
	Type	A03	A06	A10	A16
<b>HP 011</b>	1 424.58	319.74	235.17	194.44	163.78
	2 281.06	211.25	94.53	75.45	47.26
	3 130.14	97.50	43.63	34.82	21.81
	4 109.39	82.25	36.79	29.37	18.40
<b>HP 039</b>	2 70.66	53.20	25.77	20.57	14.67
	3 36.57	32.28	18.00	13.38	8.00
	4 26.57	23.27	12.46	8.80	5.58
<b>HP 050</b>	1 47.33	34.25	21.50	20.50	14.71
	2 29.10	25.95	14.04	10.90	5.88
	3 20.85	19.50	10.68	8.61	4.36
	4 14.55	12.90	7.32	6.90	3.69
	5 9.86	9.34	6.40	4.80	2.50
<b>HP 135</b>	1 29.16	25.33	13.00	12.47	5.92
	2 14.28	11.04	7.86	7.60	4.44
	3 8.96	7.46	4.89	4.16	3.07

Filter element	Absolute filtration N Series					Nominal filtration N Series
	A03	A06	A10	A16	A25	
Type	A03	A06	A10	A16	A25	M25
<b>HF 320</b>	1 3.65	2.95	2.80	1.80	0.90	0.38
	2 2.03	1.73	1.61	1.35	0.85	0.36
	3 1.84	1.42	1.32	1.22	0.80	0.35

# Selection Software FILTER SIZING

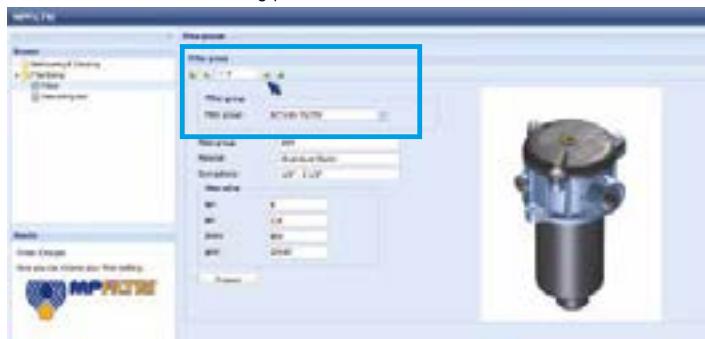
## Step ① Select "FILTERS"



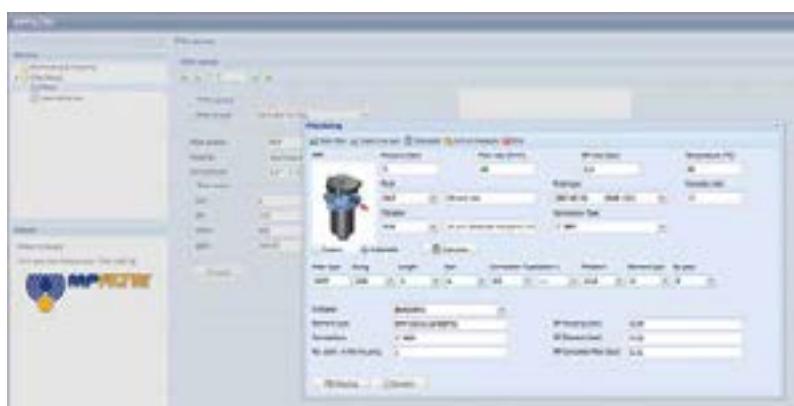
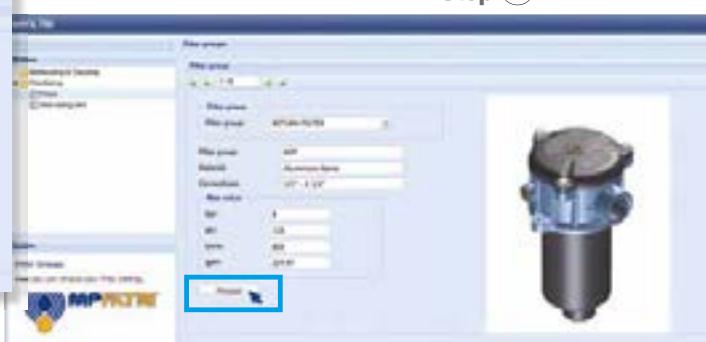
## Step ② Choose filter group (Return Filter, Pressure Filter, etc.)



## Step ③ Choose filter type (MPF, MPT, etc.) in function of the max working pressure and the max flow rate



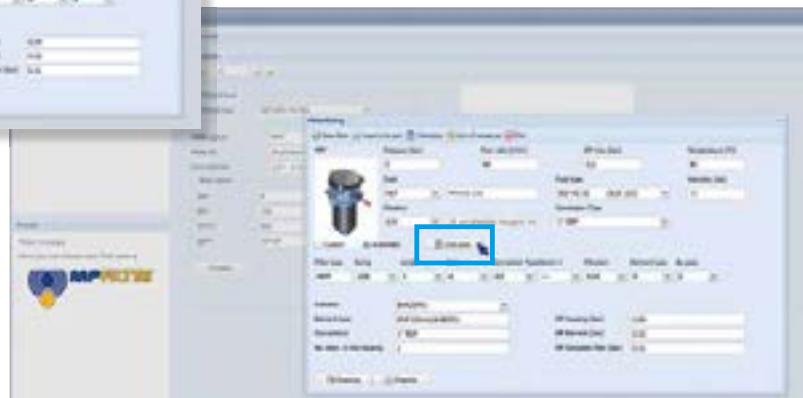
## Step ④ Push "PROCEED"



## Step ⑤

Insert all application data to calculate the filter size following the sequence:

- working pressure
- working flow rate
- working pressure drop
- working temperature
- fluid material and fluid type
- filtration media
- connection type



## Step ⑥

Push "CALCULATE" to have result;  
in case of any mistake, the system  
will advice which parameter is out  
of range to allow to modify/adjust  
the selection



## Step ⑦

Download PDF  
Datasheet "Report.aspx" pushing the button "Drawing"



# LDP & LDD series

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Maximum pressure up to 60 bar - Flow rate up to 330 l/min

# DIN 24550

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Filter element according to DIN 24550

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# LDP & LDD GENERAL INFORMATION

## Filter element according to DIN 24550

### Technical data

**Low & Medium Pressure filters** Maximum pressure up to 60 bar - Flow rate up to 330 l/min

#### Filter housing materials

- Head: Aluminium
- Bowl: Cataphoretic Painted Steel
- Bypass valve: AISI 304 - Nylon

#### Pressure

- Working pressure: 6 MPa (60 bar)
- Test pressure: 9 MPa (90 bar)
- Burst pressure: 21 MPa (210 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 6 MPa (60 bar)

#### Bypass valve

- Opening pressure 3.5 bar  $\pm 10\%$
- Other opening pressures on request.

#### Seals

- Standard NBR series A
- Optional FPM series V

#### Temperature

From -25° C to +110° C

#### Connections

Inlet/Outlet In-Line

#### Note

LDP - LDD filters are provided for vertical mounting

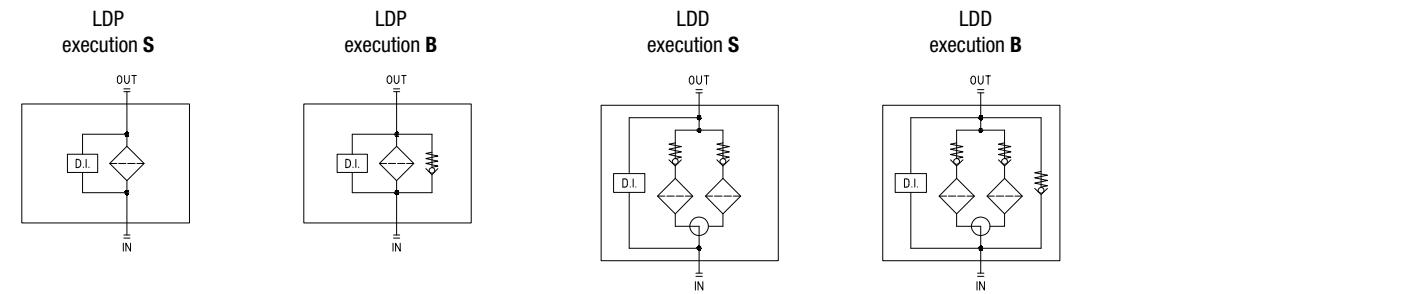
#### $\Delta p$ element type

- Microfibre filter elements - series N: 20 bar
- Fluid flow through the filter element from OUT to IN.

### Weights [kg] and volumes [dm<sup>3</sup>]

	Weights [kg]		Volumes [dm <sup>3</sup> ]	
	Length	1	Length	1
<b>LDP - LDD 016</b>		9.3		3.6
<b>LDP - LDD 025</b>		9.5		4.1
<b>LDP - LDD 040</b>		11.3		4.8

### Hydraulic symbols

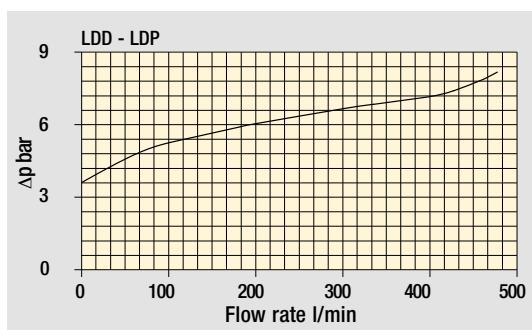
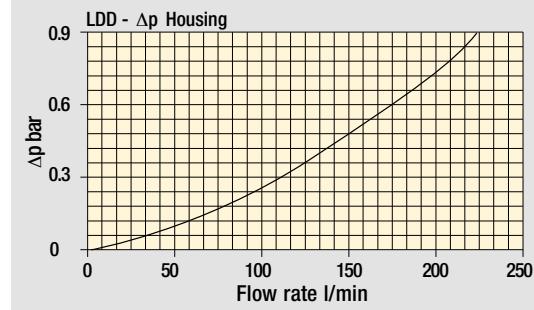
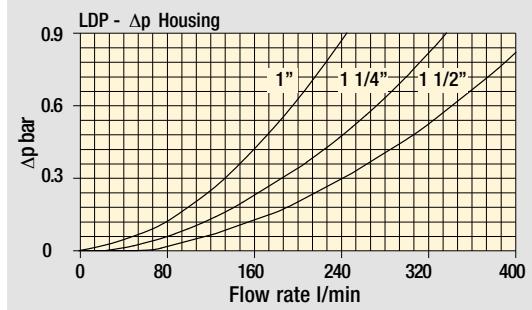


# GENERAL INFORMATION LDP & LDD

Filter element according to DIN 24550

The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968.

**Δp varies proportionally with density.**



Bypass valve pressure drop

# LDP Filter element according to DIN 24550

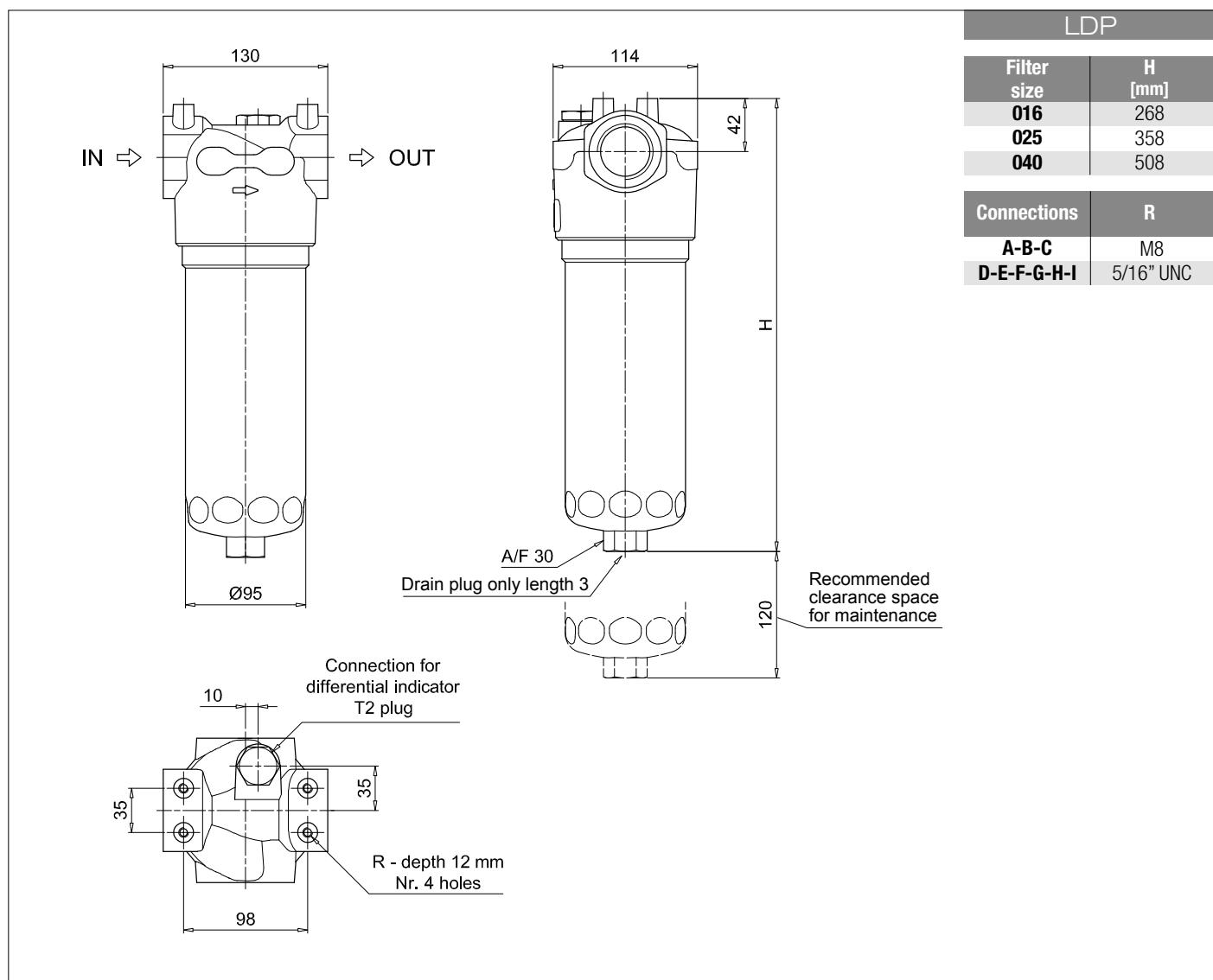
## Designation & Ordering code

COMPLETE FILTER									
Series and size <b>LDP</b>	Configuration example: LDP 025 B A D 6 A10 N P01								
Size <b>016</b> Element according to DIN 24550 - T3 DN160									
<b>025</b> Element according to DIN 24550 - T3 DN250									
<b>040</b> Element according to DIN 24550 - T3 DN400									
Bypass valve <b>S</b> Without bypass	<b>B</b> 3.5 bar								Filtration rating
Seals and treatments <b>A</b> NBR	<b>Axx</b> • • •								
<b>V</b> FPM	<b>Mxx</b> • • •								
<b>W</b> NBR compatible with fluids HFA-HFB-HFC	<b>Pxx</b> • •								
Connections <b>A</b> G1"	<b>F</b> 1 1/2" NPT								
<b>B</b> G1 1/4"	<b>G</b> SAE 16 - 1 5/16" - 12 UN								
<b>C</b> G1 1/2"	<b>H</b> SAE 20 - 1 5/8" - 12 UN								
<b>D</b> 1" NPT	<b>I</b> SAE 24 - 1 7/8" - 12 UN								
<b>E</b> 1 1/4" NPT									
Connection for differential indicator <b>6</b> With plugged connection									
Filtration rating (filter media) <b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm								
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm								
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm								
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm								
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm								
Element $\Delta p$ <b>N</b> 20 bar									Execution
<b>P01</b> MP Filtri standard									
<b>Pxx</b> Customized									

FILTER ELEMENT									
Element series and size <b>DN</b>	Configuration example: <b>DN</b> 025 A10 A N P01								
Element size <b>016</b> Element according to DIN 24550 - T3 DN160									
<b>025</b> Element according to DIN 24550 - T3 DN250									
<b>040</b> Element according to DIN 24550 - T3 DN400									
Filtration rating (filter media) <b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm								
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm								
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm								
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm								
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm								
Filtration rating <b>Axx</b> • • •									
Seals <b>A</b> NBR	<b>Mxx</b> • • •								
<b>V</b> FPM	<b>Pxx</b> • • •								
<b>W</b> NBR compatible with fluids HFA-HFB-HFC									
Element $\Delta p$ <b>N</b> 20 bar									Execution
<b>P01</b> MP Filtri standard									
<b>Pxx</b> Customized									

## ACCESSORIES

Differential indicators	page	page
<b>DEA</b> Electrical differential indicator	419	422
<b>DEM</b> Electrical differential indicator	419-420	422
<b>DLA</b> Electrical / visual differential indicator	420-421	422
<b>DLE</b> Electrical / visual differential indicator	421	
Additional features	page	page
<b>T2</b> Plug	423	



# LDD Filter element according to DIN 24550

## Designation & Ordering code

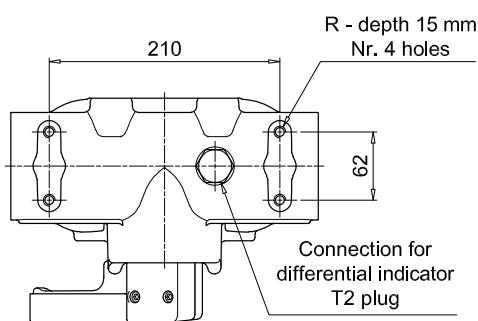
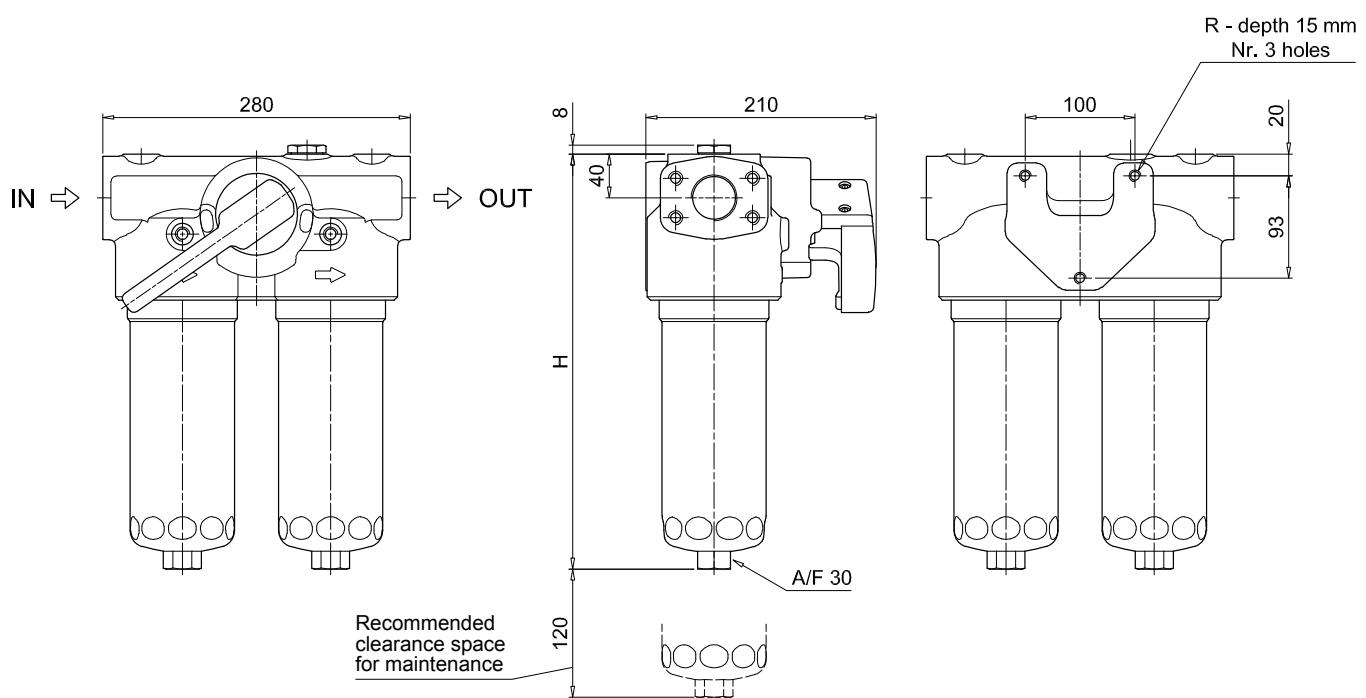
COMPLETE FILTER									
Series and size	Configuration example:								
LDD	LDD	025	B	A	C	6	A10	N	P01
<b>Size</b>									
016 Element according to DIN 24550 - T3 DN160									
025 Element according to DIN 24550 - T3 DN250									
040 Element according to DIN 24550 - T3 DN400									
<b>Bypass valve</b>									
S Without bypass	B 3.5 bar	Filtration rating							
Seals and treatments	Axx	Mxx	Pxx						
A NBR	•	•	•						
V FPM	•	•	•						
W NBR compatible with fluids HFA-HFB-HFC	•	•							
<b>Connections</b>									
C G1 1/2"									
F 1 1/2" NPT									
I SAE 24 - 1 7/8" - 12 UN									
L 1 1/2" SAE 3000 psi/M + G1 1/4"									
M 1 1/2" SAE 3000 psi/UNC + 1 1/4" NPT									
N 1 1/2" SAE 3000 psi/UNC + SAE 20 - 1 5/8" UN									
<b>Connection for differential indicator</b>									
6 With plugged connection									
<b>Filtration rating (filter media)</b>									
A03 Inorganic microfiber 3 µm	M25	Wire mesh 25 µm							
A06 Inorganic microfiber 6 µm	M60	Wire mesh 60 µm							
A10 Inorganic microfiber 10 µm	M90	Wire mesh 90 µm							
A16 Inorganic microfiber 16 µm	P10	Resin impregnated paper 10 µm							
A25 Inorganic microfiber 25 µm	P25	Resin impregnated paper 25 µm							
<b>Element Δp</b>									
N 20 bar									
<b>Execution</b>									
P01 MP Filtri standard									
Pxx Customized									

FILTER ELEMENT									
Element series and size	Configuration example:								
DN	DN	025	A10	A	N	P01			
<b>Element size</b>									
016 Element according to DIN 24550 - T3 DN160									
025 Element according to DIN 24550 - T3 DN250									
040 Element according to DIN 24550 - T3 DN400									
<b>Filtration rating (filter media)</b>									
A03 Inorganic microfiber 3 µm	M25	Wire mesh 25 µm							
A06 Inorganic microfiber 6 µm	M60	Wire mesh 60 µm							
A10 Inorganic microfiber 10 µm	M90	Wire mesh 90 µm							
A16 Inorganic microfiber 16 µm	P10	Resin impregnated paper 10 µm							
A25 Inorganic microfiber 25 µm	P25	Resin impregnated paper 25 µm							
<b>Filtration rating</b>									
Seals	Axx	Mxx	Pxx						
A NBR	•	•	•						
V FPM	•	•	•						
W NBR compatible with fluids HFA-HFB-HFC	•	•							
<b>Element Δp</b>									
N 20 bar									
<b>Execution</b>									
P01 MP Filtri standard									
Pxx Customized									

## ACCESSORIES

Differential indicators	page	page
DEA Electrical differential indicator	419	422
DEM Electrical differential indicator	419-420	422
DLA Electrical / visual differential indicator	420-421	422
DLE Electrical / visual differential indicator	421	
Additional features	page	page
T2 Plug	423	

LDD	
Filter size	H [mm]
<b>016</b>	290
<b>025</b>	380
<b>040</b>	530
Connections	R
<b>C</b>	M10
<b>F - I</b>	3/8" UNC
<b>L</b>	M10
<b>M - N</b>	3/8" UNC

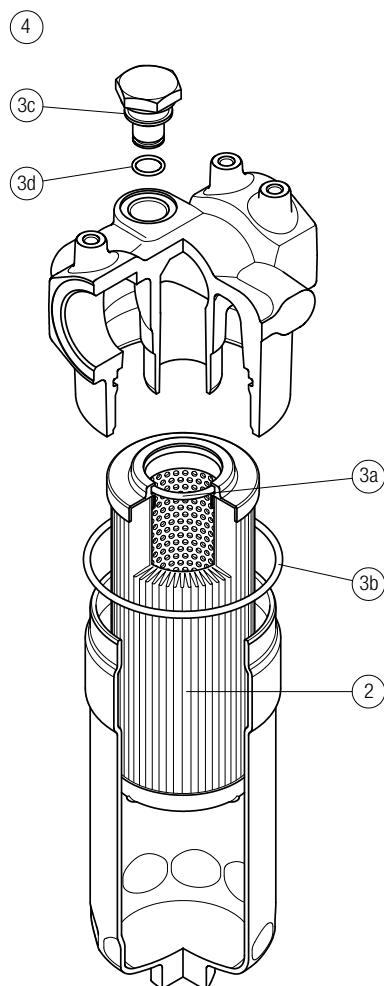


# LDP & LDD SPARE PARTS

## Filter element according to DIN 24550

Order number for spare parts

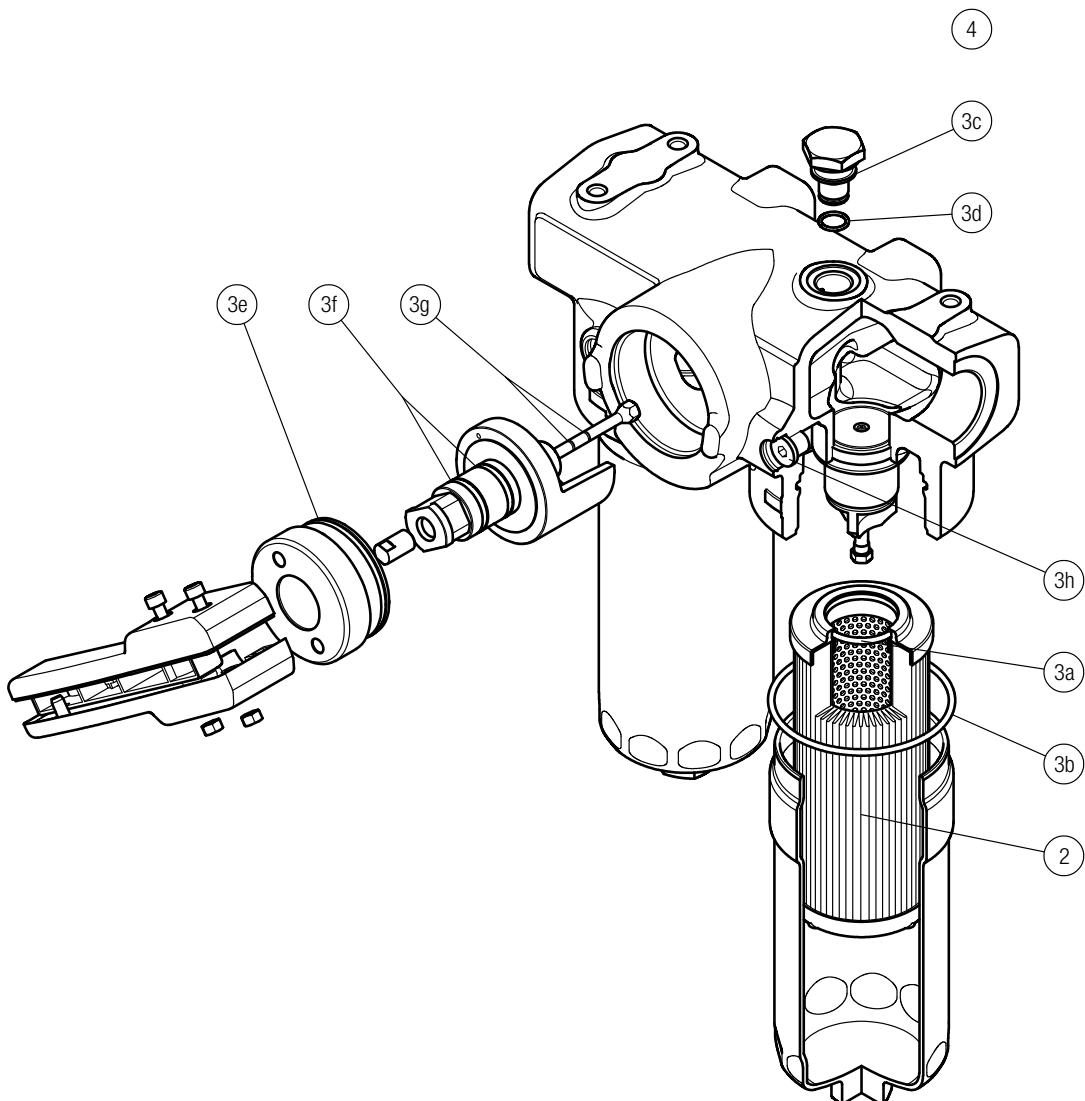
LDP



Item:	Q.ty: 1 pc. ②	Q.ty: 1 pc. ③ (3a ÷ 3d)	Q.ty: 1 pc. ④
Filter series	Filter element	Seal Kit code number NBR FPM	Indicator connection plug NBR FPM
LDP	See order table	02050435 02050436	T2H T2V

Order number for spare parts

LDD



Item:	Q.ty: 1 pc. ②	Q.ty: 1 pc. ③ (3a ÷ 3h)	Q.ty: 2 pc. ④
Filter series	Filter element	Seal Kit code number NBR FPM	Indicator connection plug NBR FPM
LDD	See order table	02050671      02050672	T2H      T2V