

# LDP & LDD series

Filter element according to DIN 24550

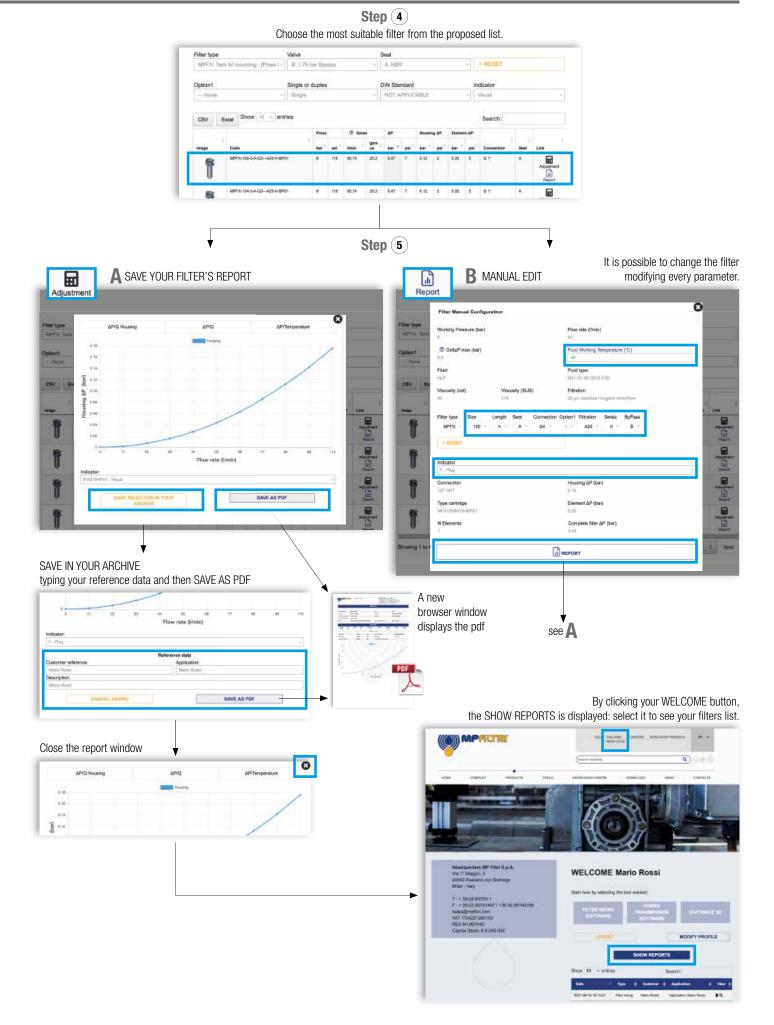
Maximum working pressure up to 6 MPa (60 bar) - Flow rate up to 360 l/min





## TYPICAL FILTER SIZING Selection Software





## LDP & LDD GENERAL INFORMATION

## Filter element according to DIN 24550

#### Descriptions

#### Low & Medium Pressure filters

Maximum working pressure up to 6 MPa (60 bar) Flow rate up to 360 l/min

**LDP** is a range of versatile low pressure filter for transmission, protection of sensitive components in low pressure hydraulic systems and filtration of the coolant into the machine tools.

They are also suitable for the off-line filtration of small reservoirs. They are directly connected to the lines of the system through the hydraulic fittings.

Available features:

- Female threaded connections up to 1 1/2", for a maximum return flow rate of 330 l/min
- Filter element designed in accordance with DIN 24550 regulation
- Fine filtration rating, to get a good cleanliness level into the system Water removal elements, to remove the free water from the hydraulic fluid.
- For further information, see the Contamination Management document and the dedicate leaflet.
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical and electronic differential clogging indicators

#### **Common applications:**

Delivery lines, in low pressure industrial equipment or mobile machines

**LDD** is a range of versatile low pressure duplex filter with integrated changeover function to allow the filter element replacement without the system shut-down.

They are directly connected to the lines of the system through the hydraulic fittings.

#### **Available features:**

- Female threaded connections up to 1 1/2" and flanged connections up to 1 1/2", for a maximum
- flow rate of 330 l/min
- Filter element designed in accordance with DIN 24550 regulation
- Fine filtration rating, to get a good cleanliness level into the system
   Water removal elements, to remove the free water from the hydraulic fluid.
   For further information, see the Contamination Management document and the dedicate leaflet.
- Balancing valve integrated in the changeover lever, to equalize the housing pressure before the switch
- Bypass valve, to relieve excessive pressure drop across the filter media
- Vent ports, to avoid air trapped into the filter going into the system
- Drain ports, to remove the fluid from the housing prior the maintenance work
   Optional sampling ports, to get samples of fluid or to connect additional instrument to the system
- Visual, electrical and electronic differential clogging indicators

#### **Common applications:**

- Systems where shut-down causes high costs
- Systems where shut-down causes safety issues

### Technical data

#### Filter housing materials

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

#### **Pressure**

- 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 350 kPa (3.5 bar) ±10%
- Other opening pressures on request.

#### ∆p element type

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



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

Filter series	Weights [kg]	Volumes [dm <sup>3</sup> ]
LDP 016	2.0	1.2
LDP 025	3.0	1.6
LDP 040	5.0	2.2
LDD 016	9.3	3.6
LDD 025	9.5	4.1
LDD 040	11.3	4.8

Filter element according to DIN 24550

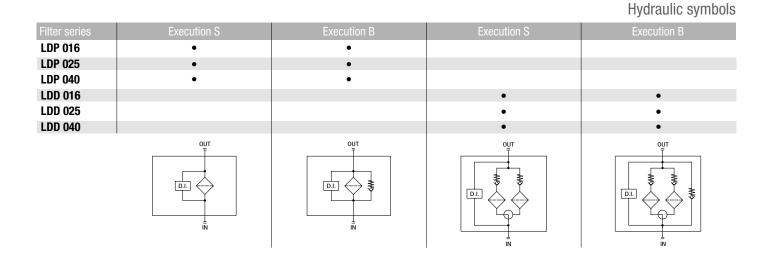
## FILTER ASSEMBLY SIZING Flow rates [I/min]

	Filter element design - N Series										
Filter series	A03	A06	A10	A16	A25	M25	M60	M90	M250	P10	P25
LDP 016	83	91	178	198	222	350	353	358	359	295	309
LDP 025	124	134	227	245	265	357	358	358	359	319	330
LDP 040	173	191	274	284	311	359	360	361	362	332	337
LDD 016	68	73	120	130	140	189	190	192	192	169	174
LDD 025	93	98	142	149	157	191	192	192	192	178	181
LDD 040	118	126	161	165	175	192	192	193	193	182	184

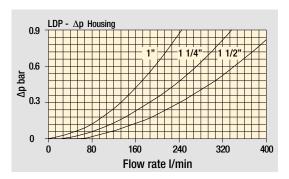
**Maximum flow rate for a complete low and medium pressure filter with a pressure drop**  $\Delta p = 0.7$  bar. The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

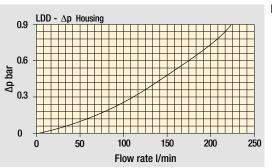
For different pressure drop or fluid viscosity or so min is (con and a density or 0.00 kg/dm .

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

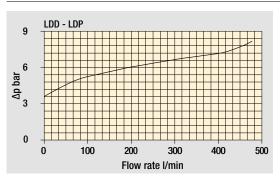


Pressure drop Filter housings ∆p pressure drop





Bypass valve pressure drop



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



## Designation & Ordering code

				COMPL	ETE FI	LTER									
Seri	es			Configuration ex	ample:	LDP	025	В	A	D	6	A10			P01
LDP															
Size															
016	Element according to DIN 2455	) - T3	DN160												
	Element according to DIN 2455														
040	Element according to DIN 2455	) - T3	DN400												
Byn	ass valve														
S	Without bypass	В	3.5 bar												
		_		Filtration rating											
Seal	s and treatments			Axx Mxx Pxx											
Α	NBR			• • •											
V	FPM			• • •											
W	NBR compatible with fluids HFA	-HFB-I	HFC	• •											
Con	nections														
Α	G 1"	F	1 1/2" NPT												
В	G 1 1/4"	G	SAE 16 - 1 5/	16" - 12 UN											
C	G 1 1/2"	Н	SAE 20 - 1 5/	8" - 12 UN											
D	1 " NPT	<u> </u>	SAE 24 - 1 7/3	8" - 12 UN											
E	1 1/4" NPT														
Con	nection for differential indicator														
6	With plugged connection														
Cilta	ation rating (filtor modia)														
	ation rating (filter media) Inorganic microfiber 3 µm	M25	Wire mesh 2	5 um											
	Inorganic microfiber 6 µm		Wire mesh 6												
	Inorganic microfiber 10 µm		Wire mesh 9	•					Γ	 					
	Inorganic microfiber 16 µm			nated paper 10 µm				lemen	t ∆p		E	cecutio	n		
	Inorganic microfiber 25 µm	P25	Resin impreg	nated paper 25 µm			N	1 2	20 bar		PO	0 <b>1</b> M	P Filtri	standa	ard
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WAU	25 Water absorber inorganic n	licroli	ber 25 µm												
				FILTER	R ELEM	ENT									
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	Element according to DIN 2455														
	Element according to DIN 2455														
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	Inorganic microfiber 10 µm		Wire mesh 9												
	Inorganic microfiber 16 µm	-		nated paper 10 µm											
	Inorganic microfiber 25 µm			nated paper 25 µm											

WA025 Water absorber inorganic microfiber 25 µm

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Sea	ls	Axx	Mxx	Pxx	
Α	NBR	•	•	•	
V	FPM	•	•	•	Element $\Delta p$ Execution
W	NBR compatible with fluids HFA-HFB-HFC	•	•		N 20 bar P01 MP Filtri standard
					Pxx Customized

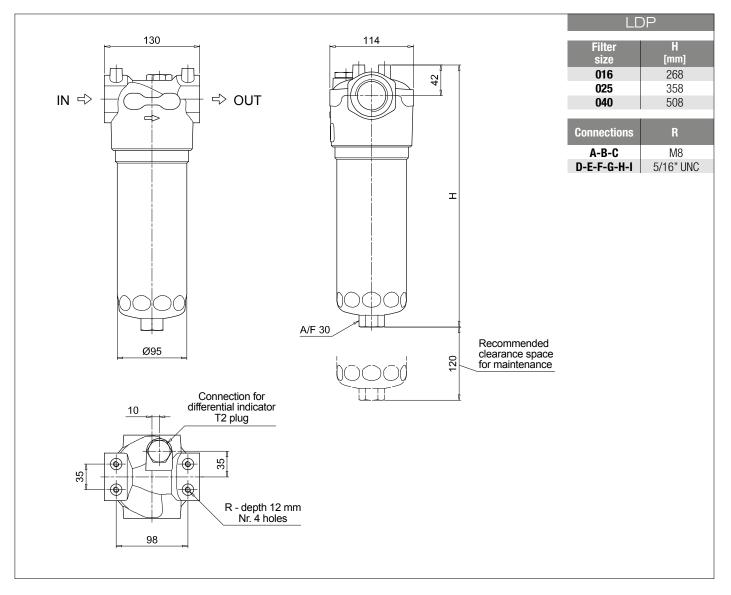
#### ACCESSORIES

Diffe	rential indicators	page
DEA	Electrical differential indicator	445
DEM	Electrical differential indicator	445-446
DLA	Electrical / visual differential indicator	446-447
DLE	Electrical / visual differential indicator	447
Addi	page	
T2	Plug	449

		page
DTA	Electronic differential indicator	448
DVA	Visual differential indicator	448
DVM	Visual differential indicator	448



Dimensions







## Designation & Ordering code

		COM	PLETE FILTE	R										
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	Element according to DIN 24550 - T3 DN250													
040	Liement according to Div 24550 - 15 Div400													
Вура	ass valve													
S	Without bypassB3.5 bar													
		Filtration rating	_											
	s and treatments	Axx Mxx Px	х											
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w		•••												
VV	NBR compatible with fluids HFA-HFB-HFC	•••												
Con	nections													
C	G 1 1/2"													
F	1 1/2" NPT													
I	SAE 24 - 1 7/8" - 12 UN													
L	1 1/2" SAE 3000 psi/M + G 1 1/4"													
М	1 1/2" SAE 3000 psi/UNC + 1 1/4" NPT													
Ν	1 1/2" SAE 3000 psi/UNC + SAE 20 - 1 5/8" UN													
Con	nection for differential indicator													
6	With plugged connection													
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	Inorganic microfiber 10 μm M90 Wire mesh 9													
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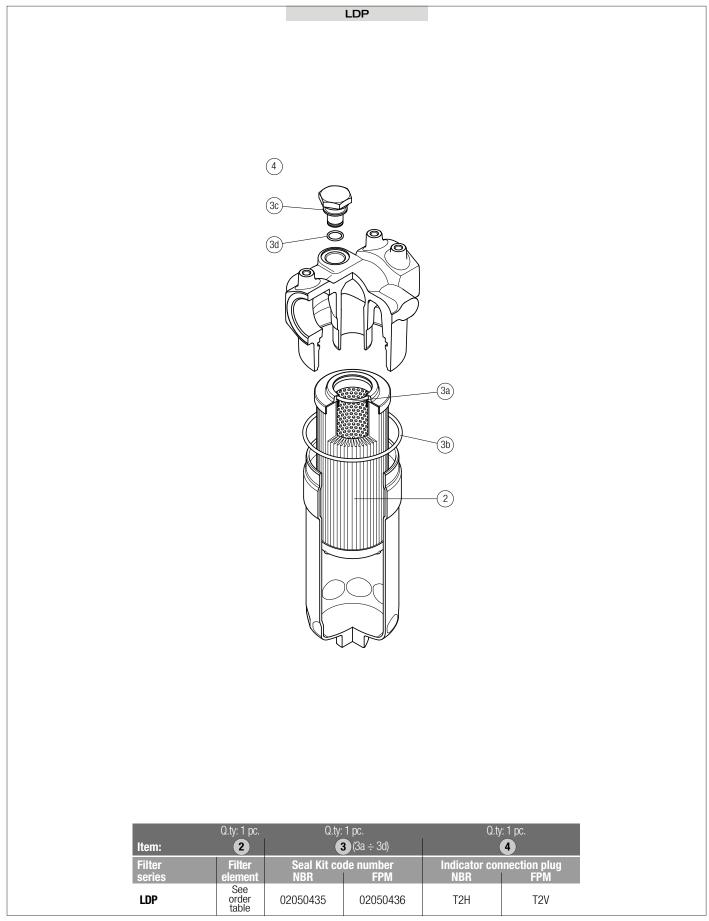
## Dimensions

Filter         I           Size         1           016         0           025         0           040         0           Connections         C           F-1         3/           L         0	H [mm] 293 383 533 R M10 8" UNC M10 8" UNC
R - depth N: 3h N = N = N =	15 mm Jes
R-depth 15 mm Nr. 3 holes Connection for differential indicator T2 plug	



## Filter element according to DIN 24550

## Order number for spare parts







## Filter element according to DIN 24550

Order number for spare parts

