



MP Filter  
LPH 630 Series



 HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL

# LPH 630 series

Maximum working pressure up to 1 MPa (10 bar) Flow rate up to 1600 l/min



## INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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# LPH 630 GENERAL INFORMATION

## Description

## Technical data

### Low & Medium Pressure filters

**Maximum working pressure up to 1 MPa (10 bar)**  
**Flow rate up to 1600 l/min**

LPH630 is a high capacity low pressure filter with large filtration surface particularly suitable for industrial applications and off-line filtration of the lubrication system reservoirs.

#### Available features:

- 2 1/2" flanged connection connections, for a maximum flow rate of 1600 l/min
- Versatile orientation of the connections, to suite a variety of hydraulic systems
- Fine filtration rating, to get a good cleanliness level into the system
- Water removal elements, to remove the free water from the hydraulic fluid.
- Bypass valve, to relieve excessive pressure drop across the filter media
- Magnetic filter, to hold the ferrous particles
- Visual, electrical and electronic differential clogging indicators.

#### Common applications:

- Lubrication
- Off-line filtration of reservoirs
- Filtration systems

### Filter housing materials

- Head & Cover: Anodized Aluminium
- Bypass valve: Phosphatized steel
- Bowl: Phosphatized steel

### Pressure

- Test pressure: 1.5 MPa (15 bar)
- Min. Burst pressure: 3 MPa (30 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 1 MPa (10 bar)

### Bypass valve

- Opening pressure 0.175 MPa (1.75 bar)  $\pm 10\%$
- Opening pressure 0.25 MPa (2.5 bar)  $\pm 10\%$

### Filter element features

Filter LPH 630	Filter element MR	
$\Delta p$ Element type		
Element media	Construction	$\Delta p$
A - Microfiber	Standard	10 bar
WA - Water absorber microfiber	Standard	10 bar
M - Wire mesh	Standard	10 bar
P - Paper	Standard	10 bar

*Please see ordering code tables to check element  $\Delta p$  series availability based on filter features.*

**Flow direction through the filter element:**  
From OUT to IN

### Seals

- Standard NBR series A
- Optional FPM series V

### Temperature

From -25 °C to +110 °C

### Note

LPH filters are provided for vertical mounting

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

Filter series	Weights [kg]	Volumes [dm <sup>3</sup> ]
	Length 7	Length 7
<b>LPH 630</b>	1.50	0.60

Flow rates [l/min]

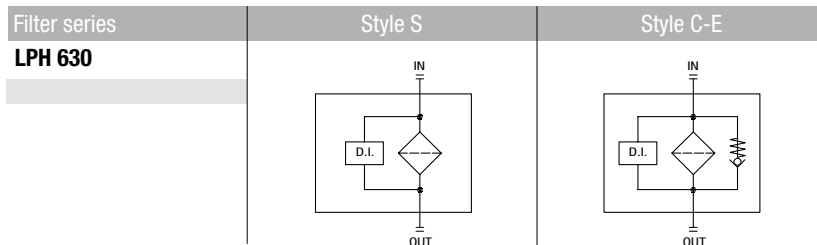
Filter series	Length	Filter element design - N Series							
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
<b>LPH 630</b>	<b>7</b>	633	671	1091	1130	1217	1669	1518	1602

### Maximum flow rate for a complete delivery filter with a pressure drop $\Delta p = 0.7$ bar.

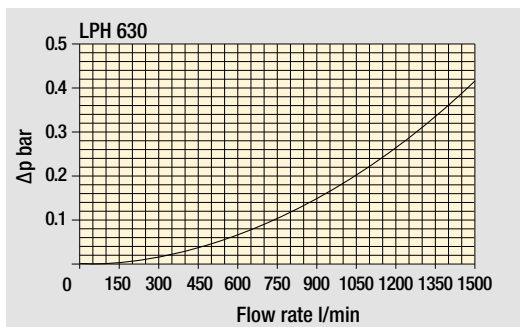
The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on [www.mpfiltri.com](http://www.mpfiltri.com).

Please, contact our Sales Department for further additional information.

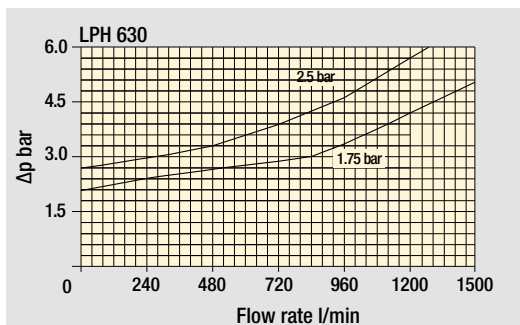


Hydraulic symbols



Pressure drop

Filter housings  
 $\Delta p$  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.  $\Delta p$  varies proportionally with density.

# LPH 630

## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b> <b>LPH630</b>	Configuration example: <b>LPH630</b>	<b>7</b>	<b>C</b>	<b>E</b>	<b>1</b>	<b>1</b>	<b>A</b>	<b>F1</b>	<b>A10</b>	<b>P01</b>
<b>Length</b> <b>7</b>										
<b>Bypass valve</b> <b>S</b> Without bypass <b>C</b> With bypass 1.75 bar <b>E</b> With bypass 2.5 bar										
<b>Diffuser and magnetic filter</b> <b>O</b> With magnetic filter <b>E</b> Without magnetic filter										
<b>Port IN position</b> <b>1</b> On the left of the bracket										
<b>Port OUT position</b> <b>1</b> On the left of the bracket										
<b>Seals and treatments</b> <b>A</b> NBR <b>V</b> FPM										
<b>Connection</b> <b>F1</b> 2 1/2" SAE 3000 psi/M <b>F3</b> 2 1/2" SAE 3000 psi/UNC										
<b>Filtration rating (filter media)</b> <b>A03</b> Inorganic microfiber 3 µm <b>A06</b> Inorganic microfiber 6 µm <b>A10</b> Inorganic microfiber 10 µm <b>A16</b> Inorganic microfiber 16 µm <b>A25</b> Inorganic microfiber 25 µm <b>WA025</b> Water absorber inorganic microfiber 25 µm <b>M25</b> Wire mesh 25 µm <b>M60</b> Wire mesh 60 µm <b>M90</b> Wire mesh 90 µm <b>P10</b> Resin impregnated paper 10 µm <b>P25</b> Resin impregnated paper 25 µm										
								<b>Execution</b> <b>P01</b> MP Filtri standard <b>Pxx</b> Customized		

### FILTER ELEMENT

<b>Element series and size</b> <b>MR630</b>	Configuration example: <b>MR630</b>	<b>7</b>	<b>M25</b>	<b>A</b>	<b>P01</b>
<b>Element length</b> <b>7</b>					
<b>Filtration rating (filter media)</b> <b>A03</b> Inorganic microfiber 3 µm <b>A06</b> Inorganic microfiber 6 µm <b>A10</b> Inorganic microfiber 10 µm <b>A16</b> Inorganic microfiber 16 µm <b>A25</b> Inorganic microfiber 25 µm <b>WA025</b> Water absorber inorganic microfiber 25 µm <b>M25</b> Wire mesh 25 µm <b>M60</b> Wire mesh 60 µm <b>M90</b> Wire mesh 90 µm <b>P10</b> Resin impregnated paper 10 µm <b>P25</b> Resin impregnated paper 25 µm					
				<b>Seals and treatments</b> <b>A</b> NBR <b>V</b> FPM	<b>Execution</b> <b>P01</b> MP Filtri standard <b>Pxx</b> Customized

### CLOGGING INDICATORS

See page 720

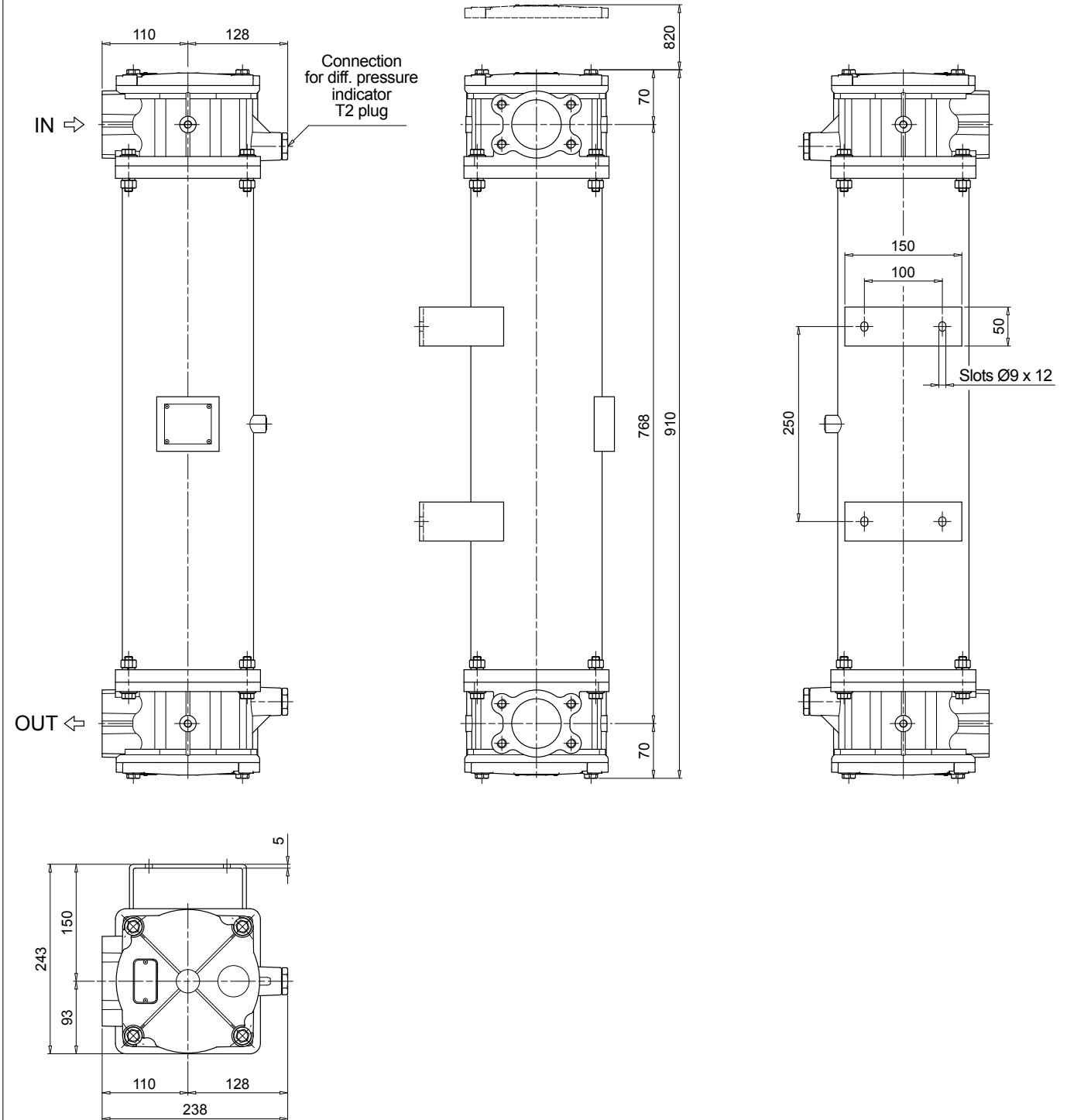
<b>DEA</b> Electrical differential pressure indicator	<b>DLE</b> Electrical / visual differential pressure indicator
<b>DEM</b> Electrical differential pressure indicator	<b>DTA</b> Electronic differential pressure indicator
<b>DEU</b> Electrical differential pressure indicator	<b>DVA</b> Visual differential pressure indicator
<b>DLA</b> Electrical / visual differential pressure indicator	<b>DVM</b> Visual differential pressure indicator

### PLUGS

See page 741

<b>T2</b> Plug
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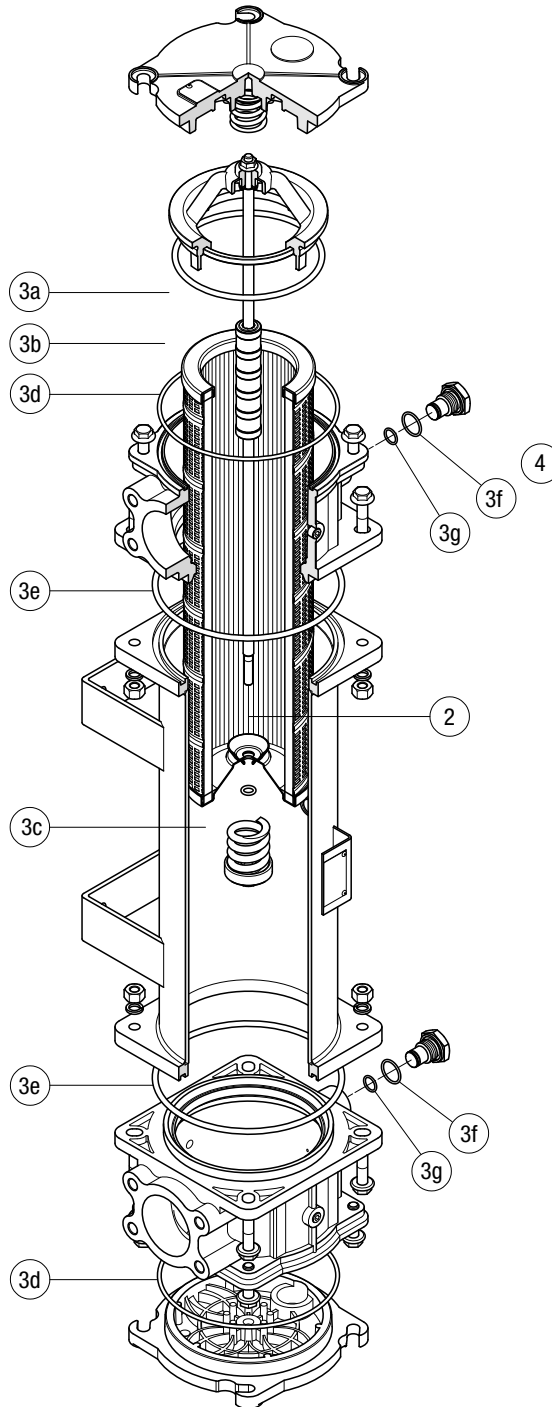
LPH630



# LPH 630

Order number for spare parts

## LPH 630



Item:	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty: 2 pc.	
Filter series	Filter element	Seal Kit code number		Indicator connection plug	
LPH 630	See order table	NBR	FPM	NBR	FPM
	2	3 (3a ÷ 3g)		4	
		02050640	02050641	T2H	T2V

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