

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
Δp Element type		
Element media	Construction	Δp
A - Microfiber	Standard	10 bar
WA - Water absorber microfiber	Standard	10 bar
M - Wire mesh	Standard	10 bar
P - Paper	Standard	10 bar
<i>Please see ordering code tables to check element Δp series availability based on filter features.</i>		
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 [dm³]

Filter series	Weights [kg]	Volumes [dm ³]
	Length 7	Length 7
LPH 630	1.50	0.60

Flow rates [l/min]

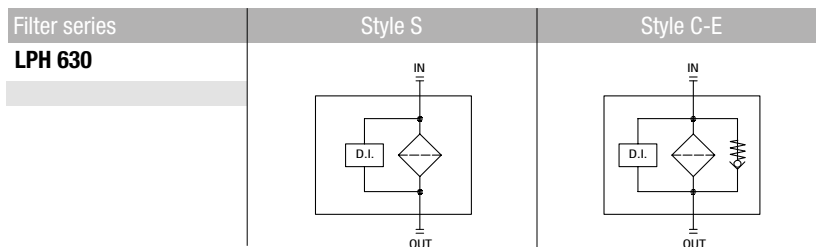
Filter series	Length	Filter element design - N Series							
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
LPH 630	7	633	671	1091	1130	1217	1669	1518	1602

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

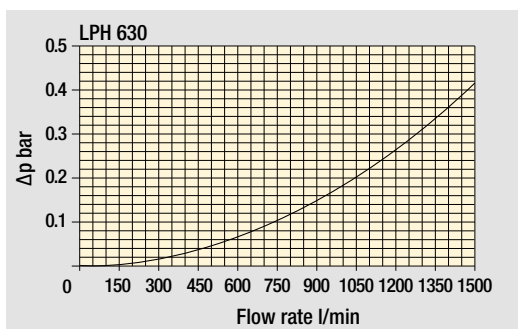
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

Please, contact our Sales Department for further additional information.

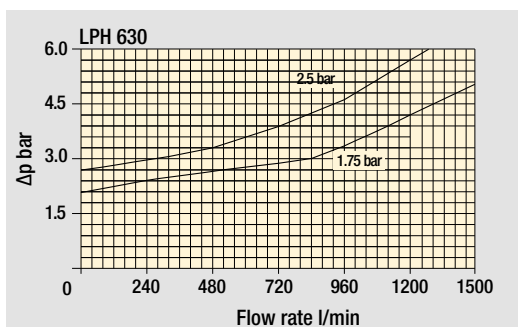


Hydraulic diagram



Pressure drop

Filter housings
Δp pressure drop



Bypass valve
pressure drop

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

LPH 630

Designation & Ordering code

COMPLETE FILTER

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

FILTER ELEMENT

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

CLOGGING INDICATORS

See page 784

DEA Electrical differential pressure indicator
DEM Electrical differential pressure indicator
DEU Electrical differential pressure indicator
DLA Electrical / visual differential pressure indicator
DLE Electrical / visual differential pressure indicator

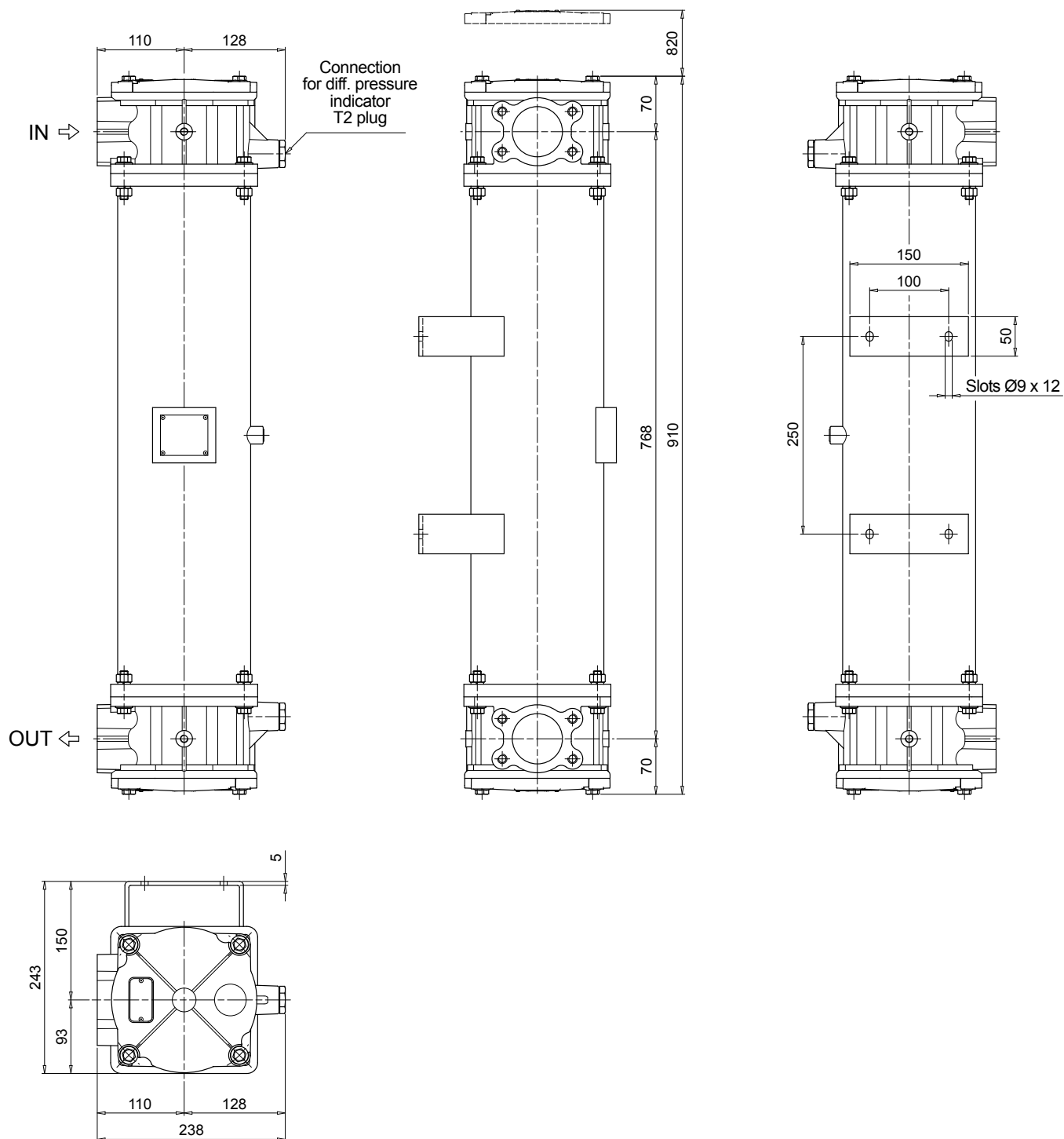
DTA Electronic differential pressure indicator
DTI I-O Link electronic differential pressure indicator
DVA Visual differential pressure indicator
DVM Visual differential pressure indicator

PLUGS

See page 807

T2 Plug

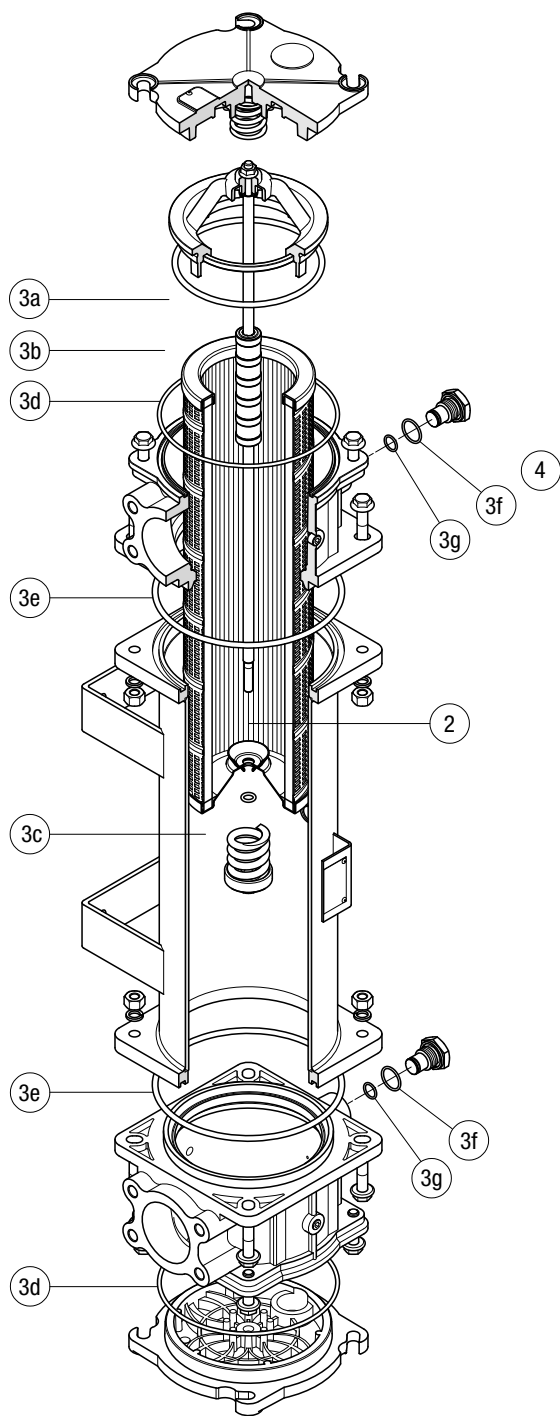
LPH630



LPH 630

Order number for spare parts

LPH 630



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