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

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

Technical data

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) ±10%
Opening pressure 0.25 MPa (2.5 bar) ±10%

Filter element features

Filter		Filter element
LPH 630		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
Please see ordering code tables to check element Δp 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 [dm³]

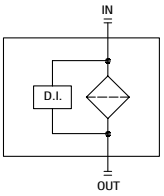
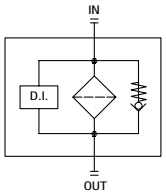
Filter series	Weights [kg]	Volumes [dm³]
	Length 7	Length 7
LPH 630	1.50	0.60

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

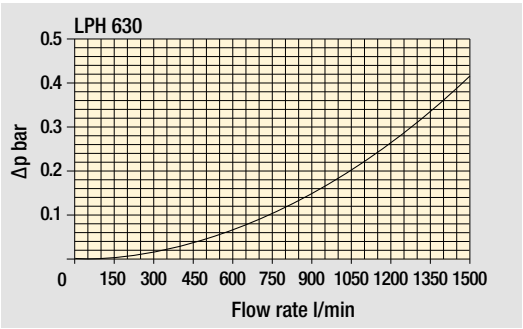
Maximum flow rate for a complete delivery filter with a pressure drop Δp = 0.7 bar.
The reference fluid has a kinematic viscosity of 30 mm^2/s (cSt) and a density of 0.86 kg/dm^3.
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.
Please, contact our Sales Department for further additional information.

Hydraulic diagram

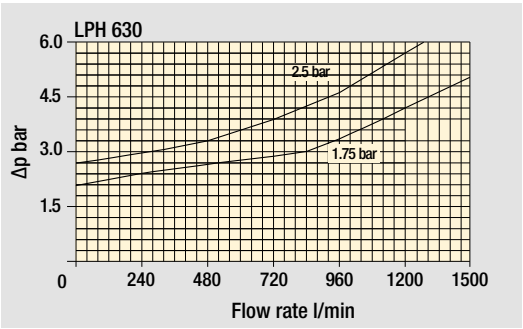
Filter series	Style S	Style C-E
LPH 630		

Pressure drop

Filter housings
Δp pressure drop



Bypass valve
pressure drop



The curves are plotted using mineral oil with density of 0.86 kg/dm^3 in compliance with ISO 3968. Δp varies proportionally with density.

LPH 630

Designation & Ordering code

COMPLETE FILTER

Configuration example: LPH630 | 7 | C | E | 1 | 1 | A | F1 | A10 | P01

Series and size
LPH630

Length
7

Bypass valve
S Without bypass
C With bypass 1.75 bar
E With bypass 2.5 bar

Diffuser and magnetic filter
0 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	**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

WA025 Water absorber inorganic microfiber 25 µm

Execution
P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example: MR630 | 7 | M25 | A | P01

Element series and size
MR630

Element length
7

Filtration rating (filter media)

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

WA025 Water absorber inorganic microfiber 25 µm

Seals and treatments
A NBR
V FPM

Execution
P01 MP Filtri standard
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CLOGGING INDICATORS

See page 784

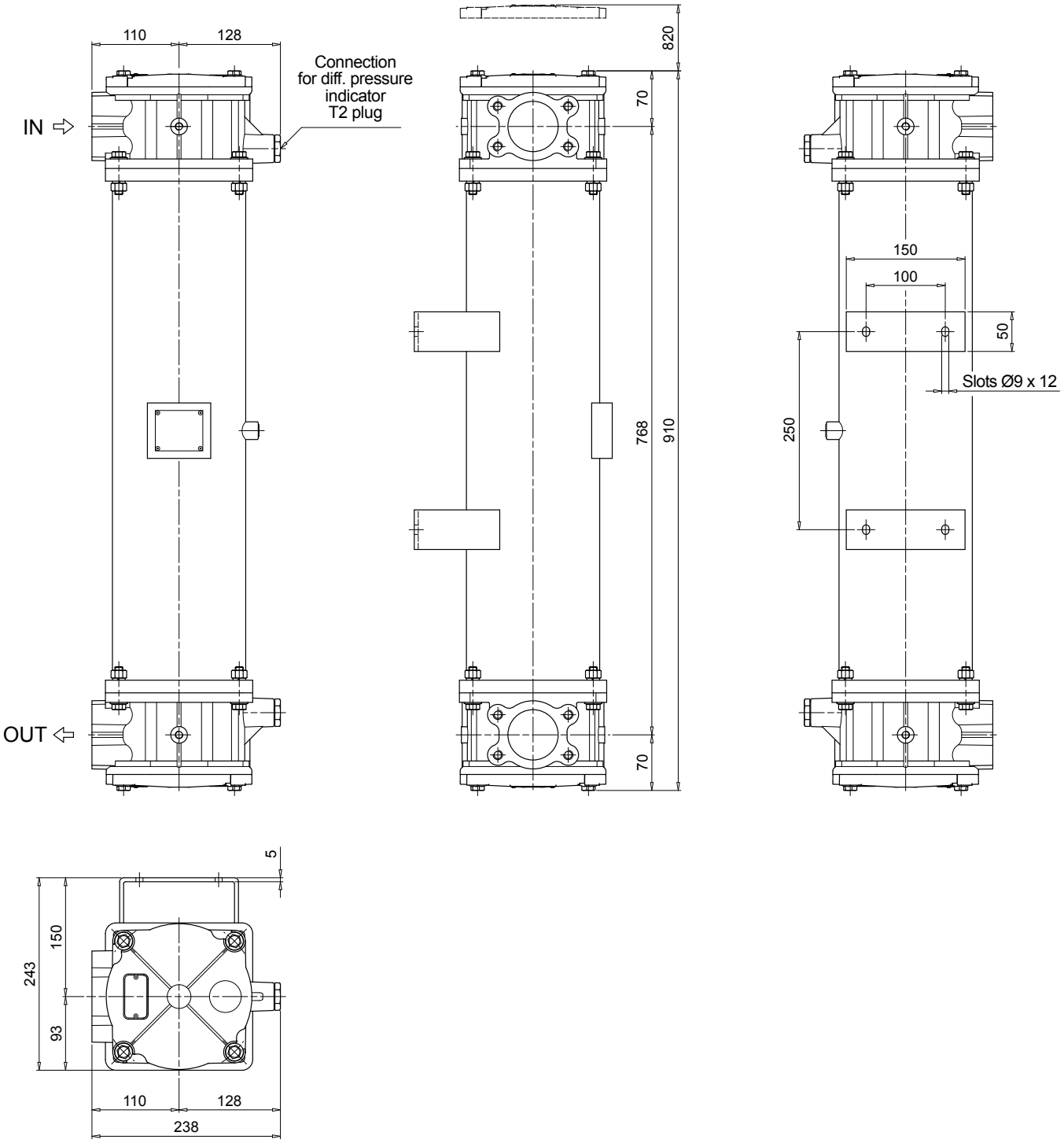
DEA Electrical differential pressure indicator
DEM Electrical differential pressure indicator
DEU Electrical differential pressure indicator
DLA Electrical / visual differential pressure indicator
DLE Electrical / visual differential pressure indicator
DTA Electronic differential pressure indicator
DTI I-O Link electronic differential pressure indicator
DVA Visual differential pressure indicator
DVM Visual differential pressure indicator

PLUGS

See page 807

T2 Plug

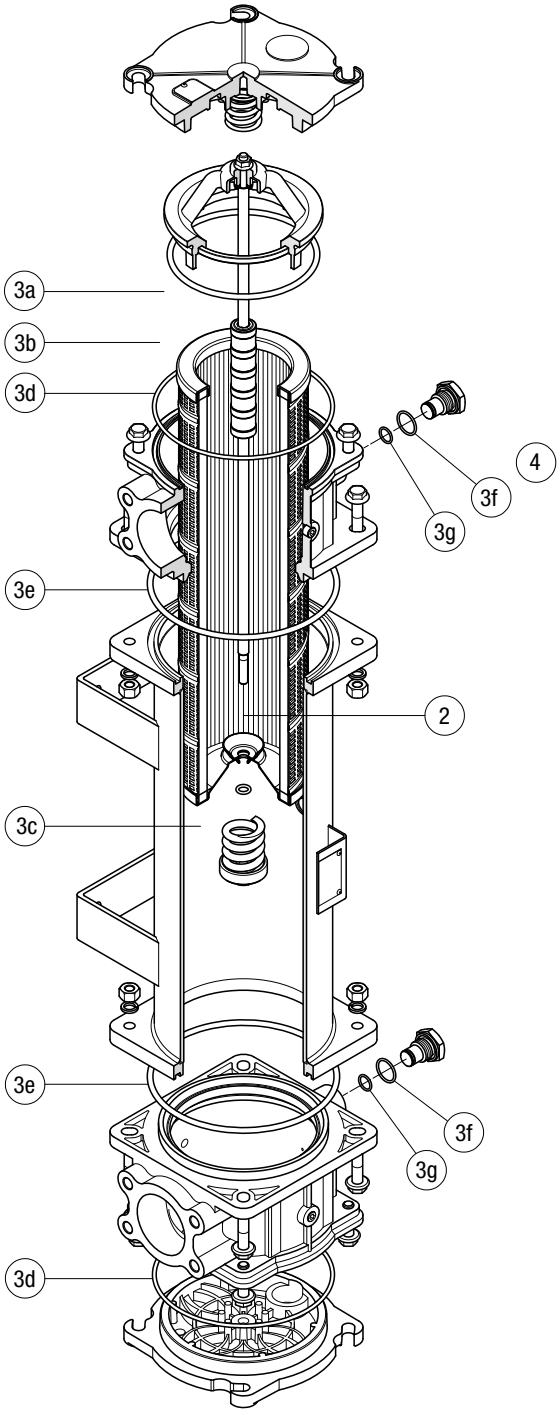
LPH630


110
128
Connection
for diff. pressure
indicator
T2 plug
IN
OUT
820
70
768
910
70
150
100
50
Slots Ø9 x 12
250
5
150
243
93
110
128
238

LPH 630

Order number for spare parts

LPH 630



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