



Filtro MP  
Serie LMP  
900-901



 HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL

# LMP 900-901 series

Filters featuring filter elements designed according to DIN 24550

Maximum working pressure up to 3 MPa (30 bar) - Flow rate up to 2000 l/min



# LMP 900-901 GENERAL INFORMATION

## Filters featuring filter elements designed according to DIN 24550

### Description

#### Low & Medium Pressure filters

**Maximum working pressure up to 3 MPa (30 bar)**

**Flow rate up to 2000 l/min**

LMP900 is a range of low pressure filter with large filtration surface mainly suitable for lubrication, off-line filtration of the reservoirs and filtration equipment.

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

#### Available features:

- Flanged connections up to 4", for a maximum flow rate of 2000 l/min
- In line or 90° connections, to meet any type of application
- 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
- 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
- Visual, electrical and electronic differential clogging indicators

#### Common applications:

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

### Technical data

#### Filter housing materials

- Head: Anodized aluminium
- Housing: Anodized aluminium
- Manifolds: Anodized aluminium
- Bypass valve: Steel

#### Pressure

- Test pressure: 4.5 MPa (45 bar)
- Min. Burst pressure: 9 MPa (90 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 3 MPa (30 bar)

#### Bypass valve

- Opening pressure 0.35 MPa (3.5 bar)  $\pm 10\%$
- Other opening pressures on request.

#### Number of filter elements

- LMP 900-1: 1 filter element CU900
- LMP 900-2: 2 filter elements CU900

#### Filter elements

- Filter element designed in accordance with DIN 24550
- Size: 1000

#### Filter element features

Filter		Filter element	
LMP 900-901		CU	
$\Delta p$ Element type			
Element media	Construction	$\Delta p$ Series	$\Delta p$
A - Microfiber	Standard	N	20 bar
M - Wire mesh	Standard	N	20 bar
P - Paper	Standard	N	20 bar
<i>Please see ordering code tables to check element <math>\Delta p</math> series availability based on filter features.</i>			
<b>Flow direction through the filter element:</b>			
From OUT to IN			

#### Seals

- Standard NBR series A
- Optional FPM series V

#### Connections

- LMP 900: In-line Inlet/Outlet
- LMP 901: 90° Inlet/Outlet

#### Temperature

- From -25 °C to +110 °C

#### Note

- LMP 900 - 901 filters are provided for vertical mounting

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

Filter series	Weights [kg]			Volumes [dm <sup>3</sup> ]		
	Length	1	2	Length	1	2
<b>LMP 900-901</b>		19.2	30.4		16	24

# GENERAL INFORMATION LMP 900-901

Filters featuring filter elements designed according to DIN 24550

Flow rates [l/min]

Filter series	Length	Filter element design - N Series					
		A03	A06	A10	A16	A25	M25 M60 M90
LMP 900	1	706	877	1264	1291	1444	1803
	2	1100	1264	1556	1573	1668	1867
LMP 901	1	715	899	1337	1369	1552	2000
	2	1147	1337	1689	1710	1828	2081

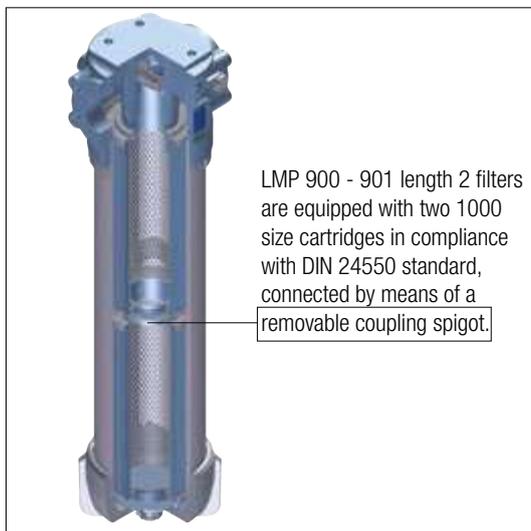
## Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

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 we recommend to use our selection software available on [www.mpfiltri.com](http://www.mpfiltri.com).

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.

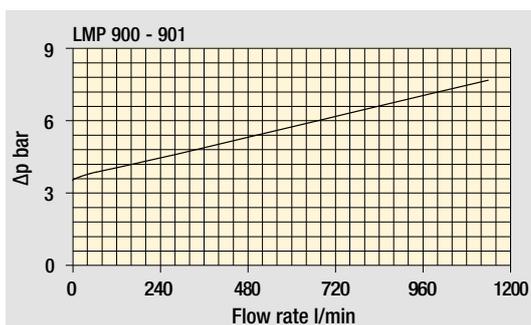
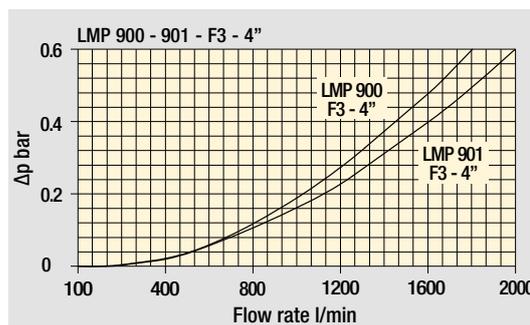
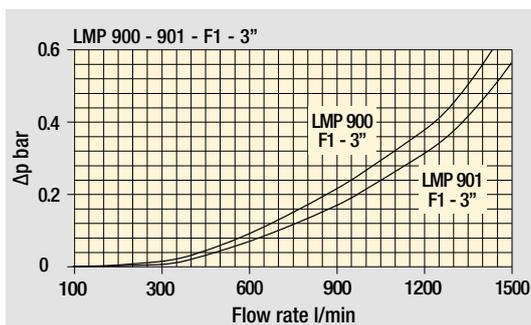
## LMP 900-901 Length 2



## Hydraulic symbols

Filter series	Execution S	Execution B
LMP 900-901	●	●

## 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.

# LMP 900-901 Filters featuring filter elements designed according to DIN 24550

## Designation & Ordering code

### COMPLETE FILTER

Configuration example: **LMP901** | **2** | **B** | **A** | **F2** | **A10** | **N** | **P01**

**Series and size**  
**LMP900** | **LMP901**

**Length**  
**1** | **2**

**Bypass valve**  
**S** Without bypass | **B** With bypass 3.5 bar

**Seals and treatments**  
**A** NBR | **V** FPM

**Connections**  
**F1** 3" SAE 3000 psi/M  
**F2** 3" SAE 3000 psi/UNC  
**F3** 4" SAE 3000 psi/M  
**F4** 4" 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  
**A25** Inorganic microfiber 25 µm  
**WA025** Water absorber inorganic microfiber 25 µm

Element Δp	Execution	Filter length	
		1	2
<b>N</b> 20 bar	<b>P01</b> MP Filtri standard	•	•
	<b>P02</b> Maintenance from the bottom of the housing	-	•
	<b>Pxx</b> Customized		

### FILTER ELEMENT

Configuration example: **CU900** | **A10** | **A** | **N** | **P01**

**Element series and size**  
**CU900**

**Length**  
**1** Nr. 1 filter element  
**2** Nr. 2 filter elements

**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  
**A25** Inorganic microfiber 25 µm  
**WA025** Water absorber inorganic microfiber 25 µm

**Seals**  
**A** NBR | **V** FPM

Element Δp	Execution	Filter length	
		1	2
<b>N</b> 20 bar	<b>P01</b> MP Filtri standard		
	<b>Pxx</b> Customized		

### CLOGGING INDICATORS

See page 720

**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  
**DVA** Visual differential pressure indicator  
**DVM** Visual differential pressure indicator

### PLUGS

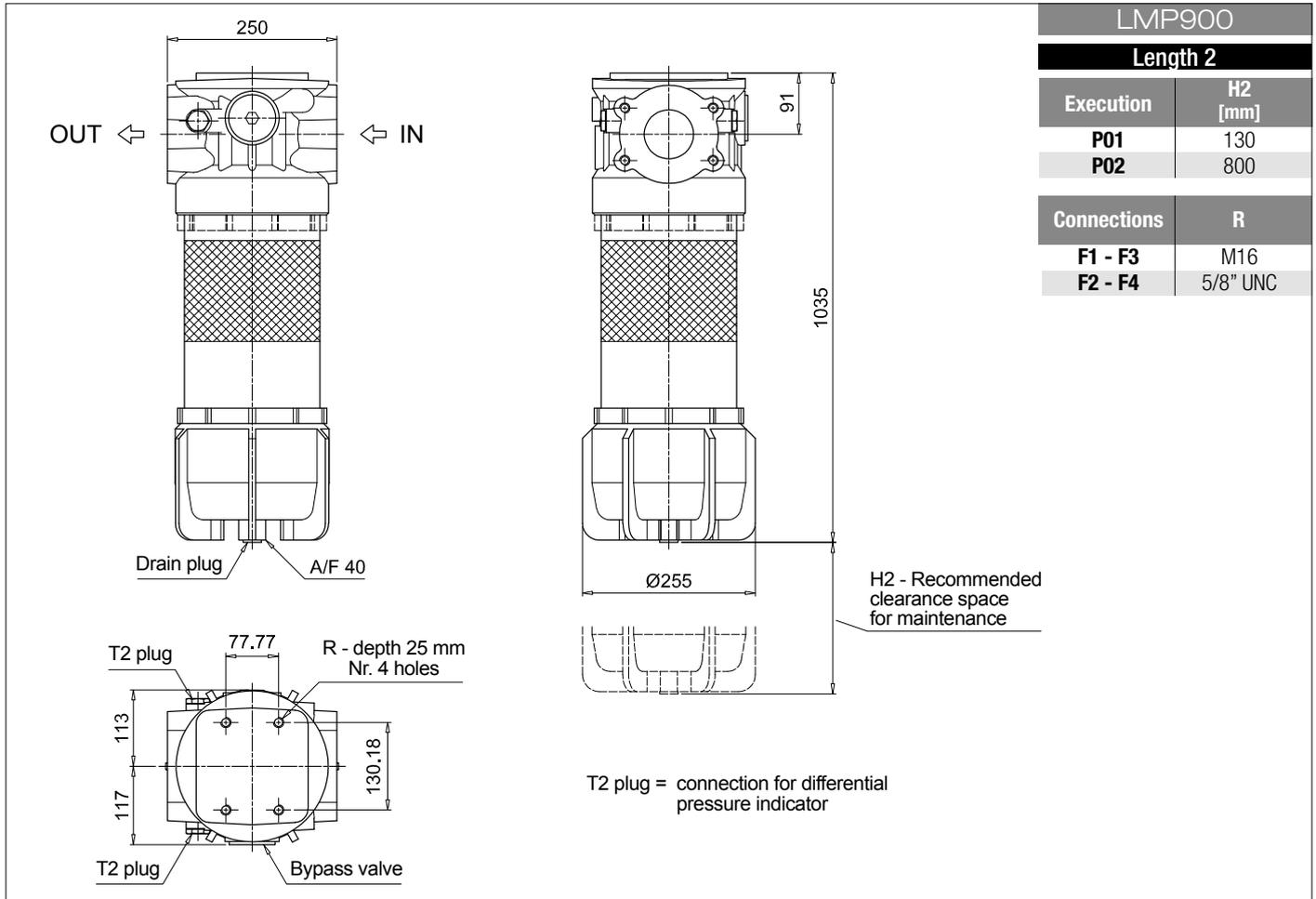
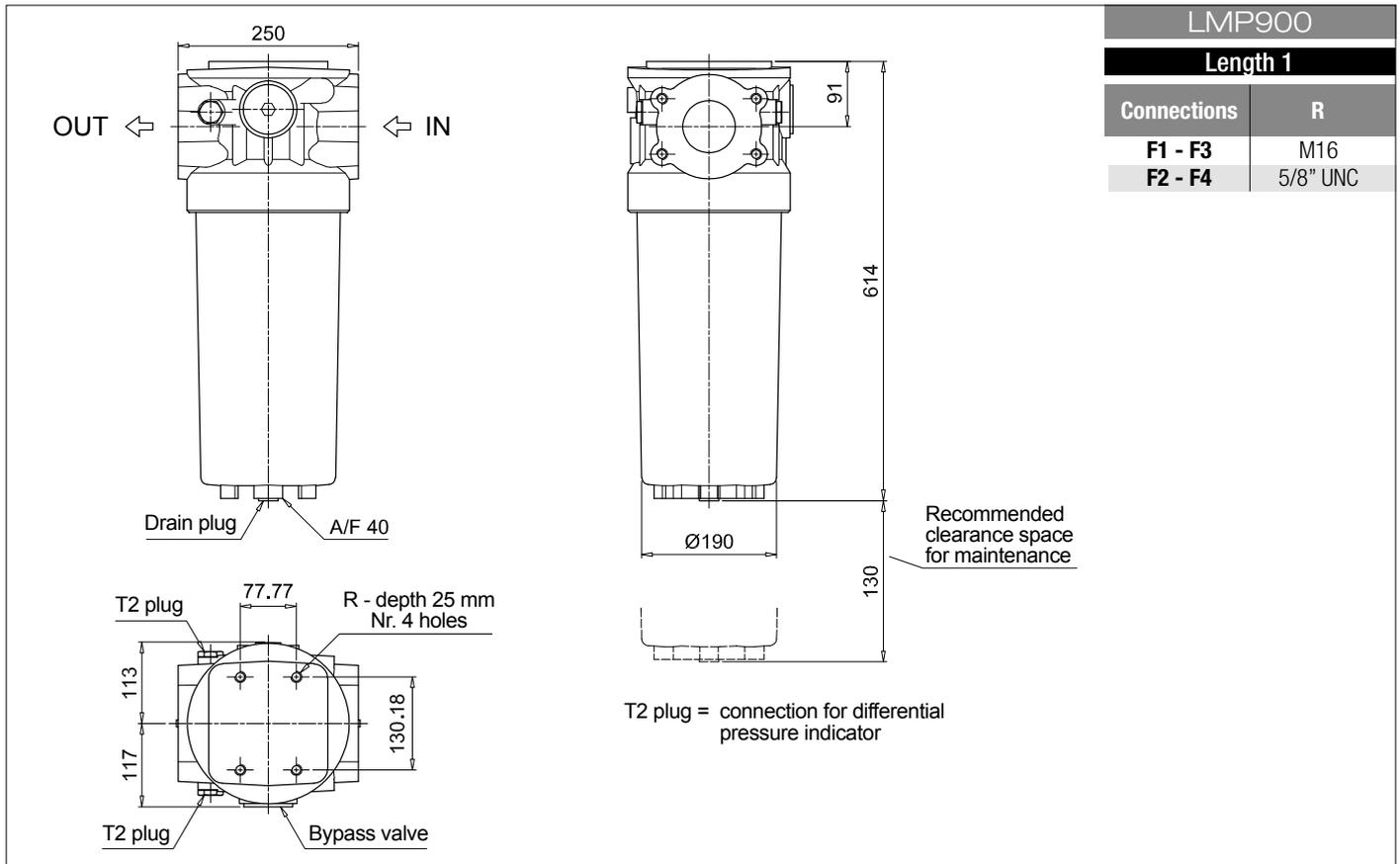
See page 741

**T2** Plug - Filter length 1 - 2

### ACCESSORIES

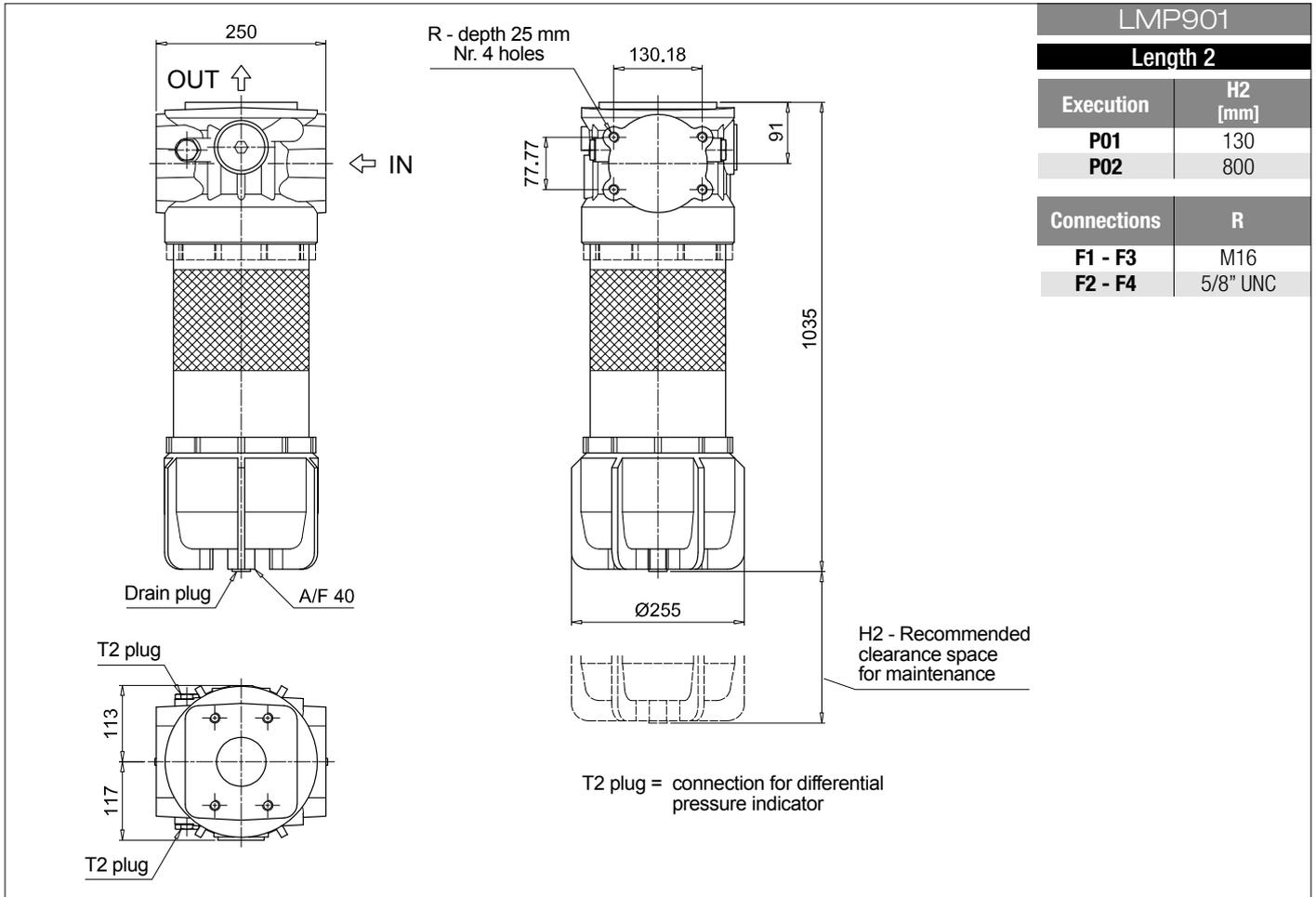
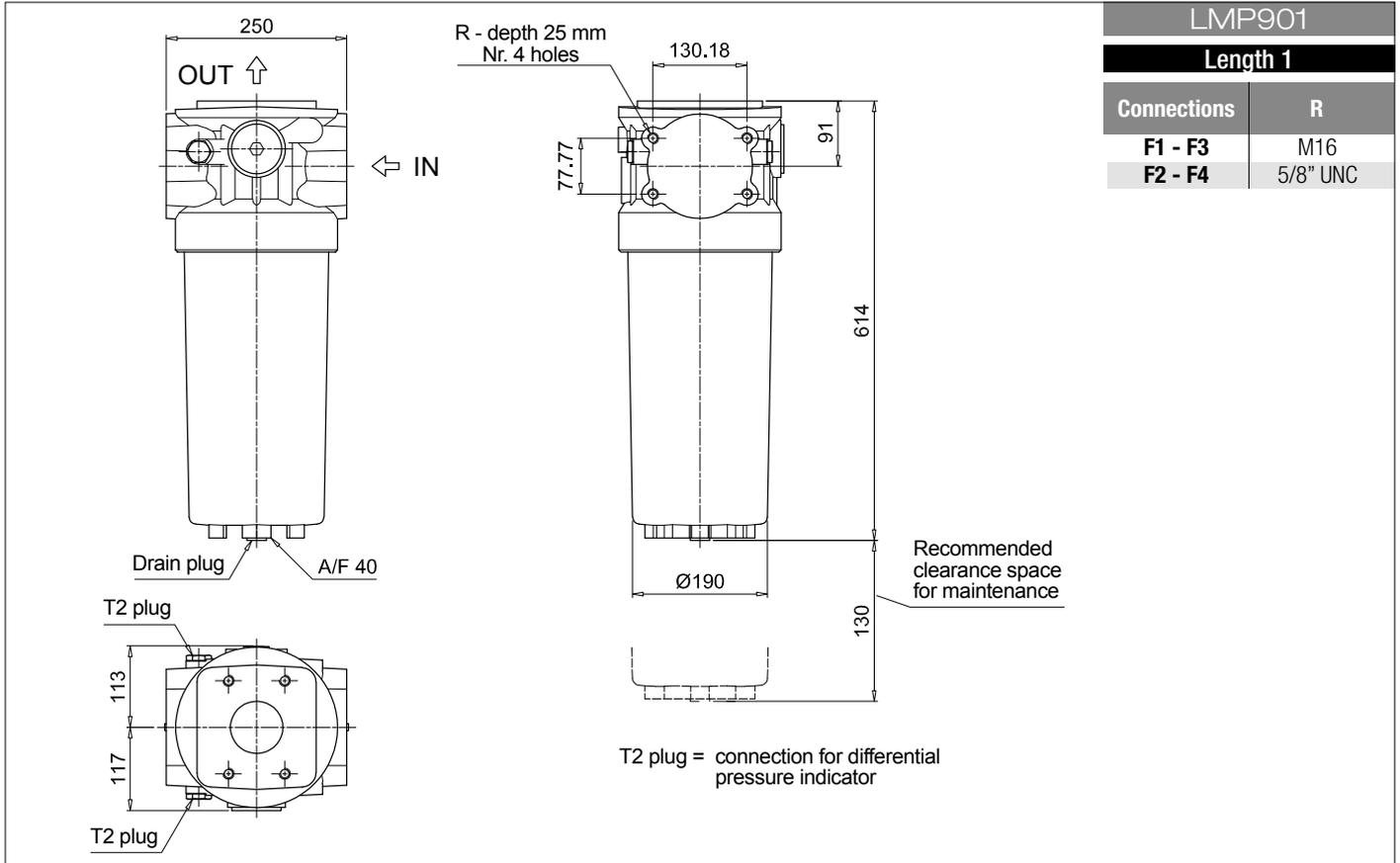
See page 464

**CFA** Retaining clamp - Filter length 2



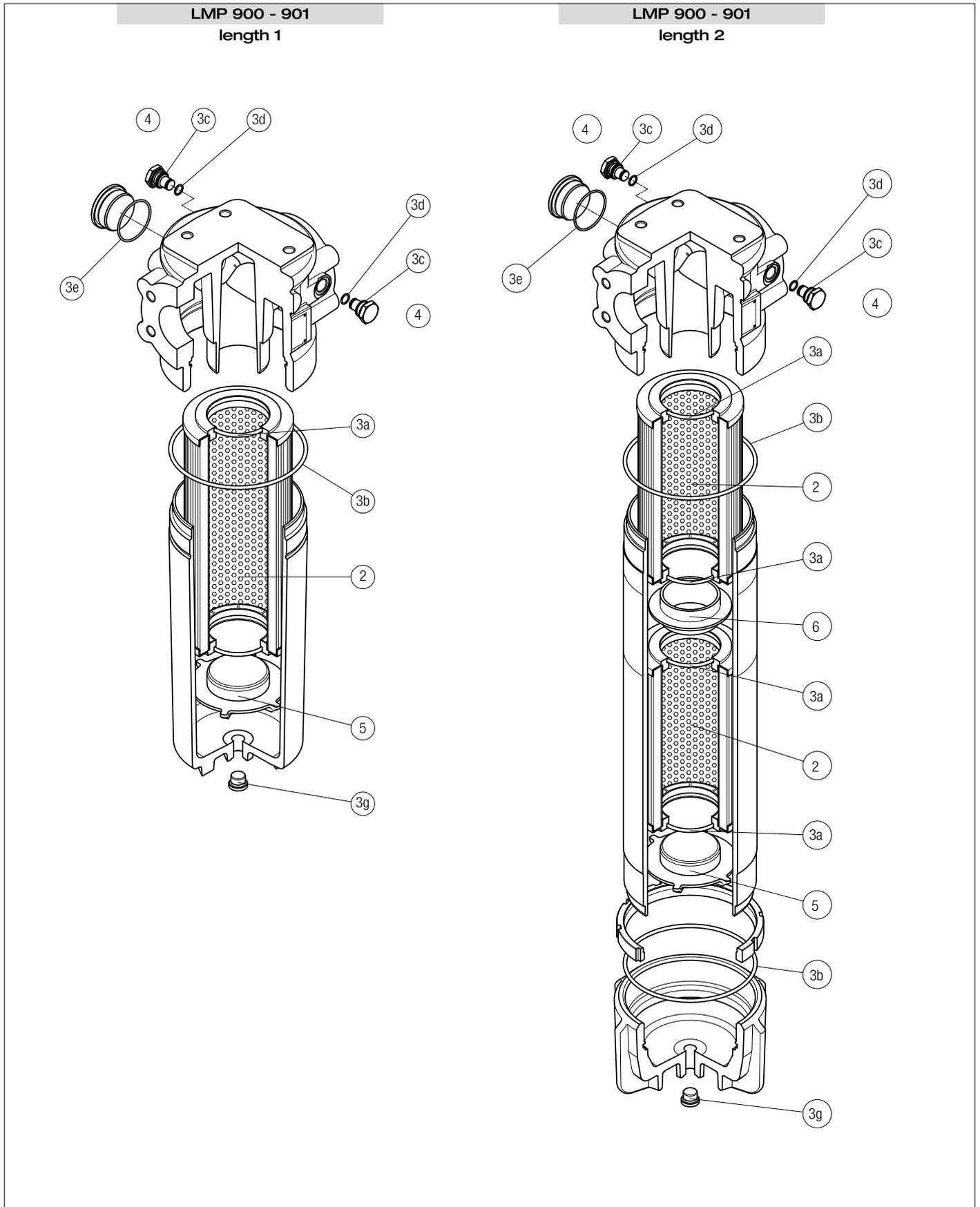
# LMP 900-901 Filters featuring filter elements designed according to DIN 24550

## Dimensions



# SPARE PARTS LMP 900-901

Order number for spare parts



Item:	2		3 (3a ÷ 3g)		4		5		6			
Filter series	Filter element		Seal Kit code number		Indicator connection plug		Housing spigot		Coupling spigot			
	Q.ty		Q.ty	NBR	FPM	Q.ty	NBR	FPM	Q.ty	Q.ty		
LMP 900-901 length 1	1 pc.	See order table	1 pc.	02050363	02050364	2 pcs.	T2H	T2V	1 pc.	01044104	-	01044099
LMP 900-901 length 2	2 pcs.		1 pc.	02050365	02050366	2 pcs.			1 pc.		1 pc.	

## LubeTeam Hydraulic S.r.l.

*Administration and Headquarter:*

Via Tufara Scautieri, 6

83018 - San Martino Valle Caudina (AV)

*Office and Warehouse:*

S.S. 7 Appia, Km. 237,00

82011 - Airola BN

ITALY

Tel. +39 0823 950 994

Fax +39 0823 412 546

[www.lubeteam.it](http://www.lubeteam.it) [info@lubeteam.it](mailto:info@lubeteam.it)

Italian VAT / C.F. e P.IVA: 01251720627

Follow us



This document is the property of LubeTeam Hydraulic S.r.l. All data reported here are for the exclusive use of the Receiver. Reproduction is not authorized without writing permission, in all or in part of the content of this document, in accordance to Law 633 art. 171, dated April 22, 1941.

Il presente documento è di proprietà della LubeTeam Hydraulic S.r.l. I dati riportati sono per esclusivo del destinatario. La riproduzione, di tutto o in parte, non è autorizzata senza permesso scritto secondo l'art. 171 della L. 633 del 22 Aprile 1941.