

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)
- Burst pressure: 12 MPa (120 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 3 MPa (30 bar)

Bypass valve

- Opening pressure 350 kPa (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

Δp element type

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

Connections

LMP 900: In-line Inlet/Outlet

LMP 901: 90° Inlet/Outlet

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Note

LMP 900 - 901 filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

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

GENERAL INFORMATION LMP 900-901

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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

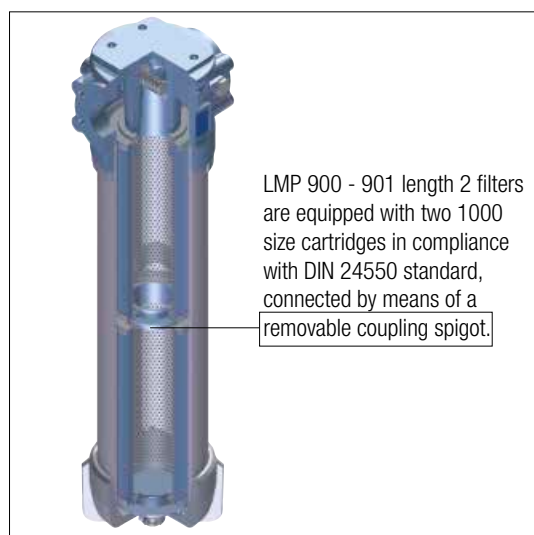
Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

The reference fluid has a kinematic viscosity of 30 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.

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

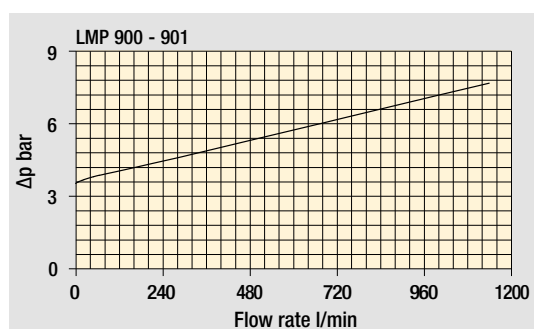
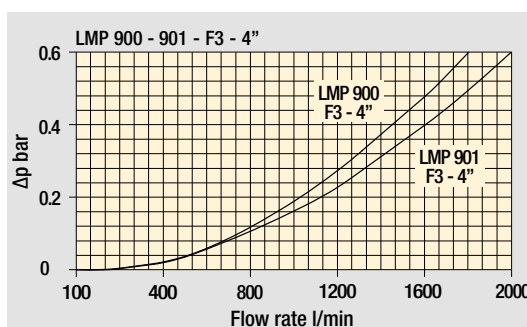
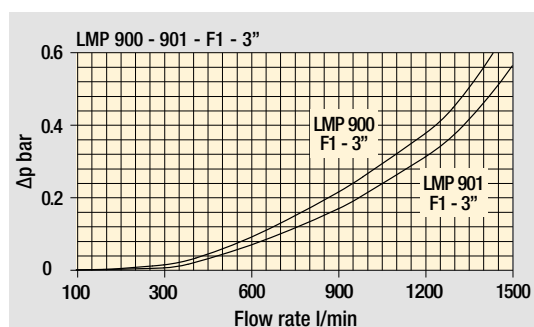


Hydraulic symbols

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

Pressure drop

Filter housings 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.

LMP 900-901

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Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: LMP901							
LMP900 LMP901		2	B	A	F2	A10	N	P01	
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					
N 20 bar		P01 MP Filtri standard		1		2			
		P02 Maintenance from the bottom of the housing		-		•			
		Pxx Customized							

FILTER ELEMENT

Element series and size		Configuration example: CU900				
CU900		A10	A	N	P01	
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				
N 20 bar		P01 MP Filtri standard		Pxx Customized		

CLOGGING INDICATORS

See page 726

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

PLUGS

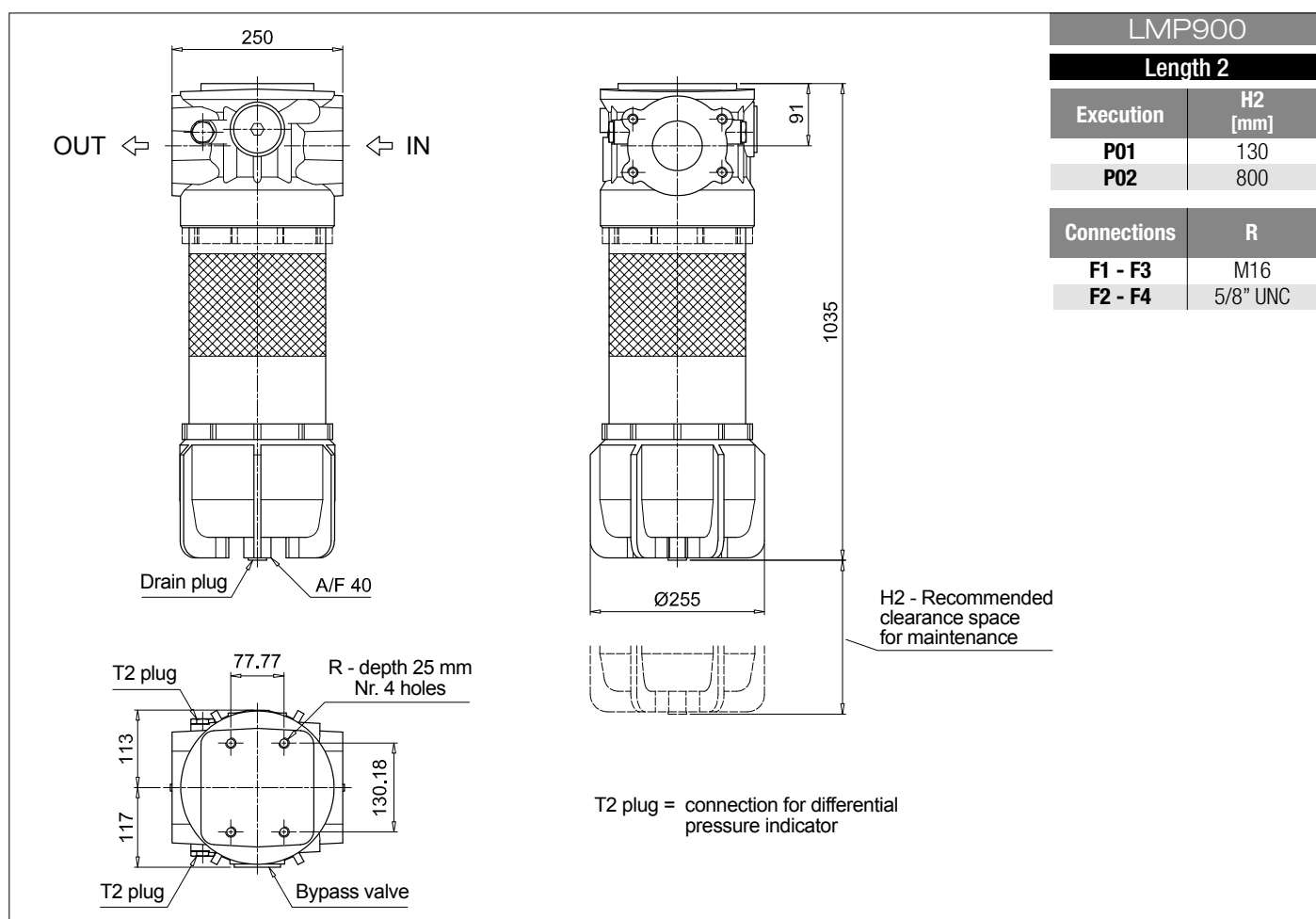
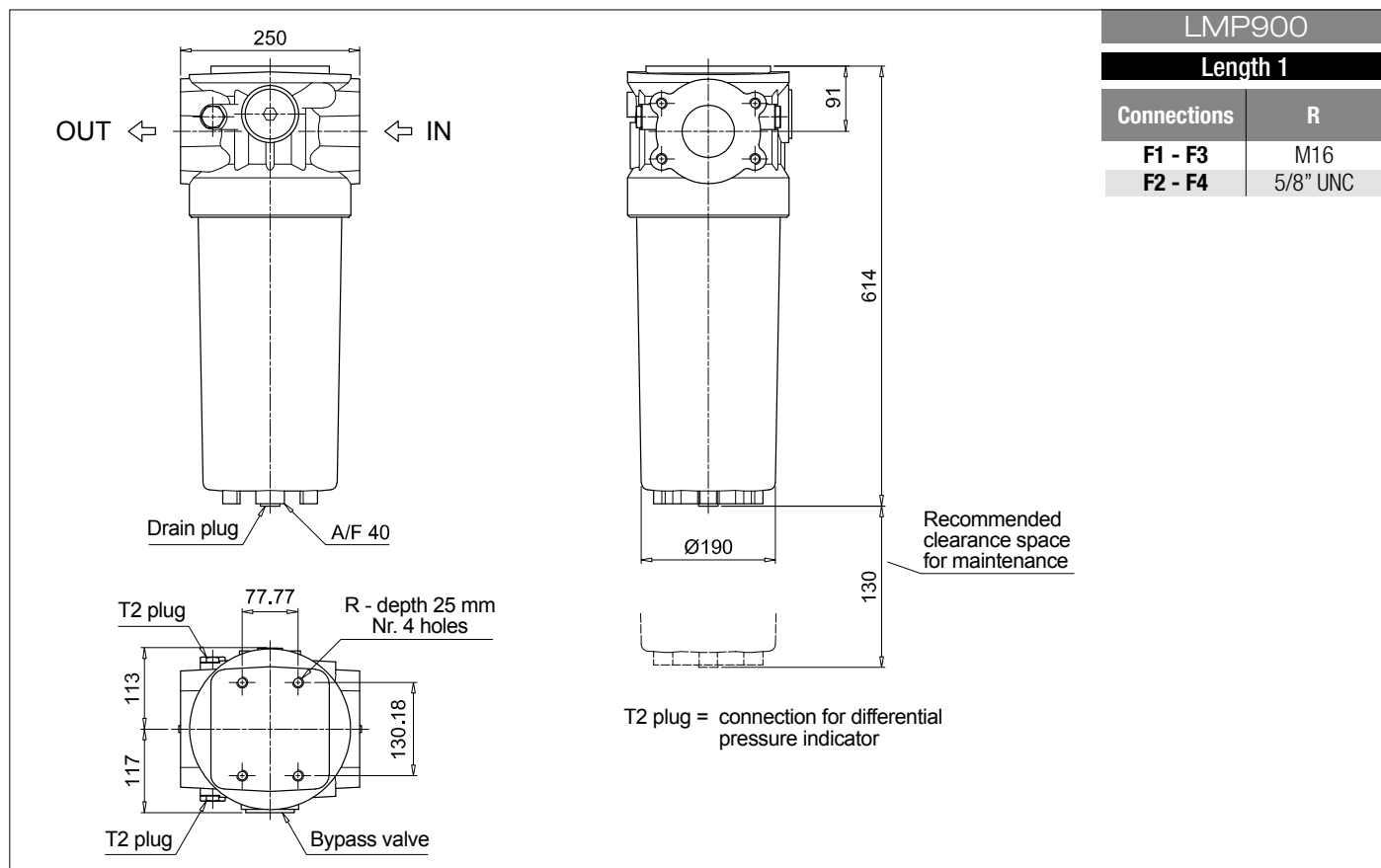
See page 747

T2 Plug - Filter length 1 - 2

ACCESSORIES

See page 472

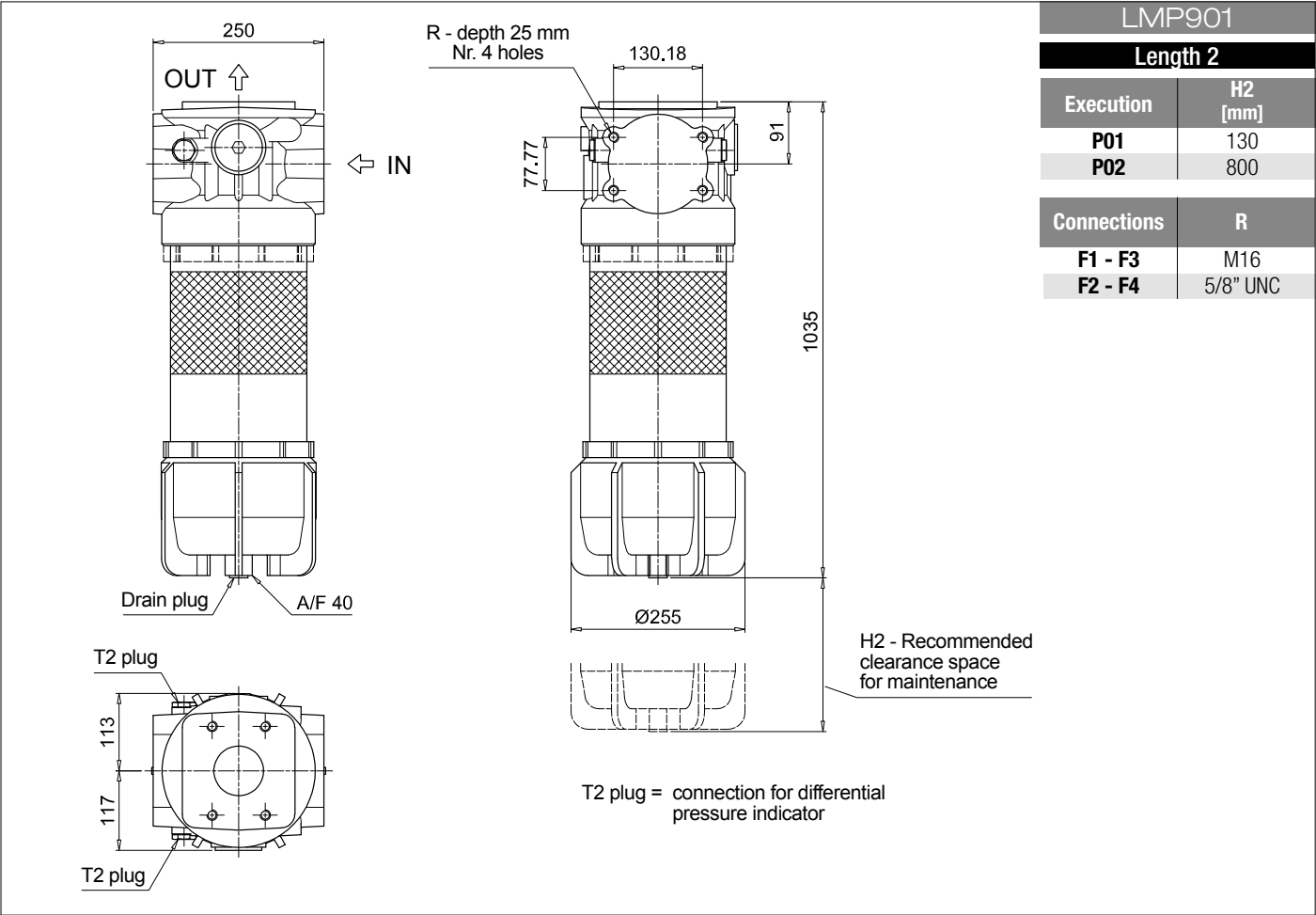
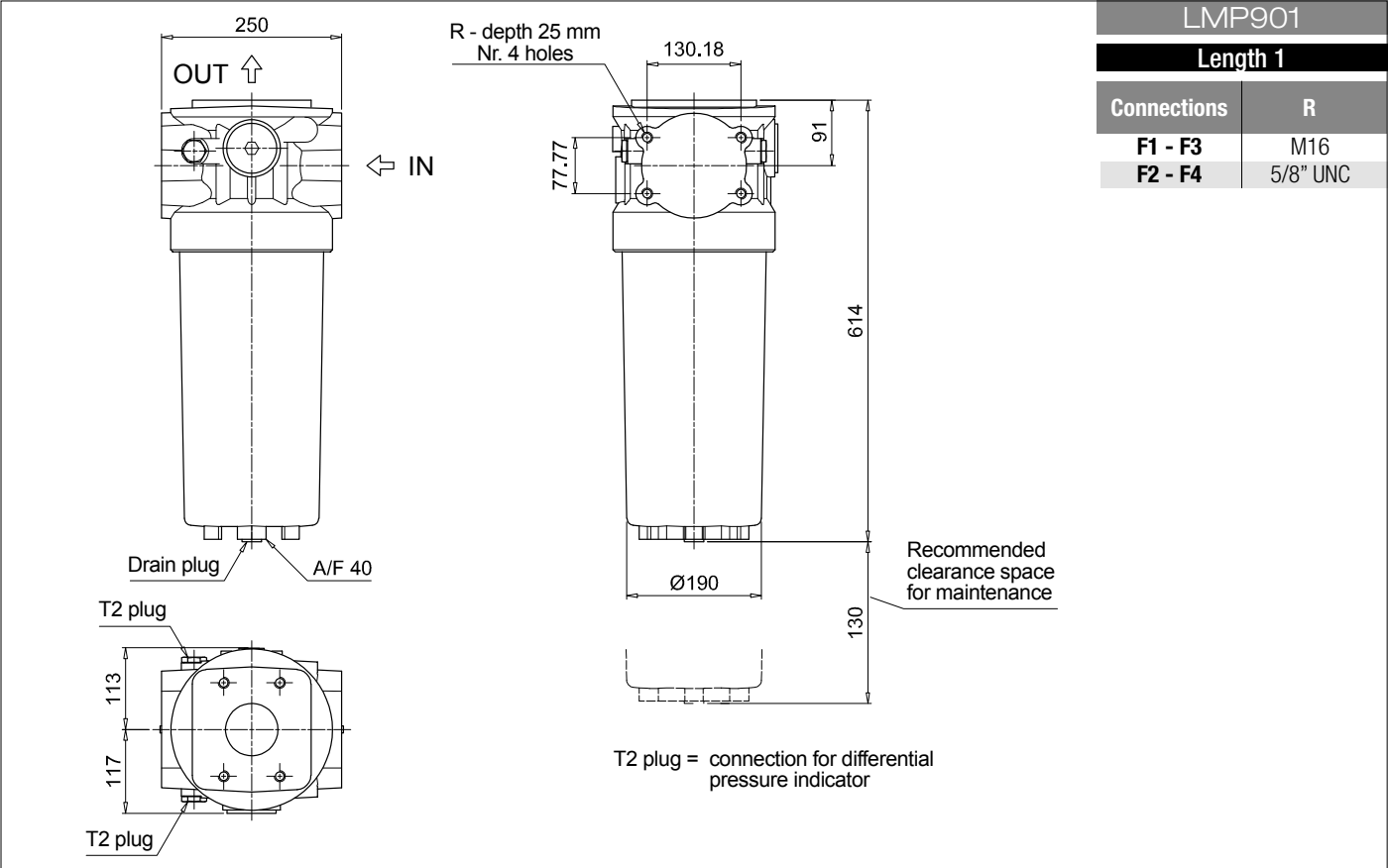
CFA Retaining clamp - Filter length 2



LMP 900-901

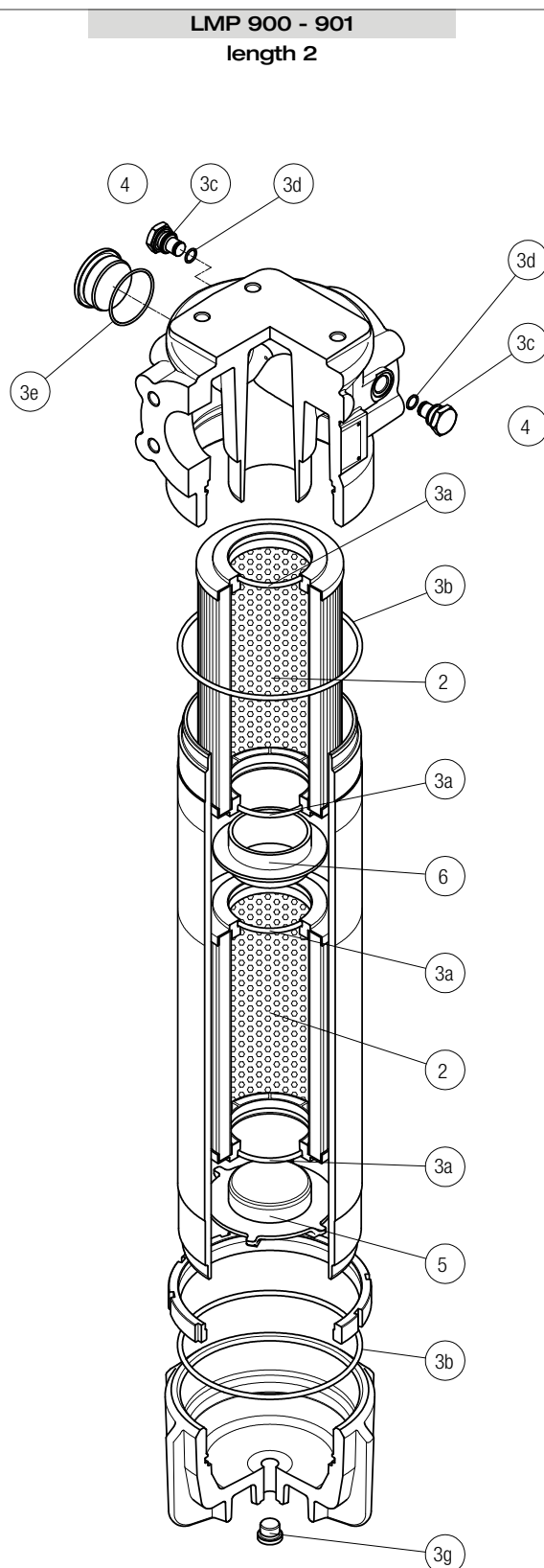
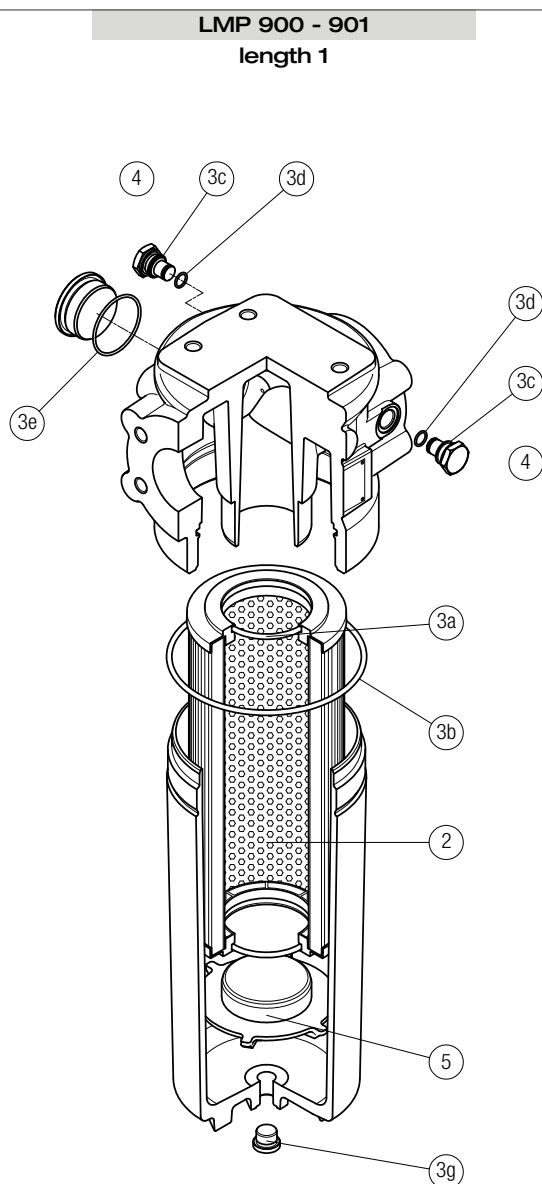
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Dimensions



SPARE PARTS LMP 900-901

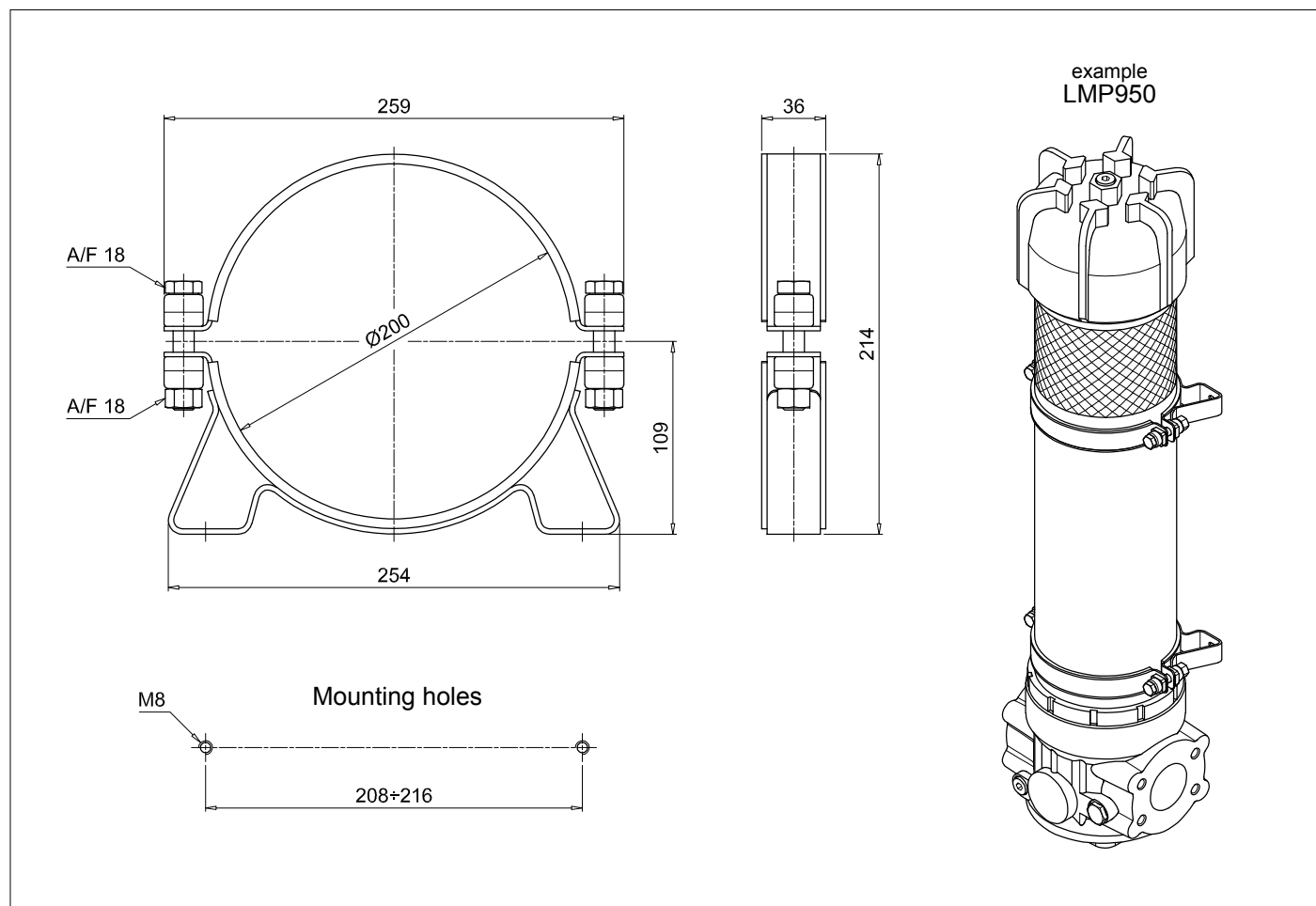
Order number for spare parts



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

Accessories

RETAINING CLAMP



Series
CFA Retaining clamp

Size
20

Screw
M Metric

Execution
P01 MP Filtri standard

Configuration example: **CFA** **20** **M** **P01**

CLOGGING INDICATORS LOW & MEDIUM PRESS. FILTERS

Designation & Ordering code

DIFFERENTIAL PRESSURE INDICATORS

Series										
Configuration example 1:										
Configuration example 2:										
Configuration example 3:										
Configuration example 4:										
Configuration example 5:										
Type										
Type										
Pressure setting										
Seals										
Thermostat										
Electrical connections										
Option										
Certifications										

PLUGS

Series										
Configuration example										
Type										
Seals										
Type										