LMP 900-901 series

Filter element 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

Filter element 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) ±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 according to 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 [dm³]		
	Length	1	2	Length	1	2
LMP 900-901		19.2	30.4		16	24

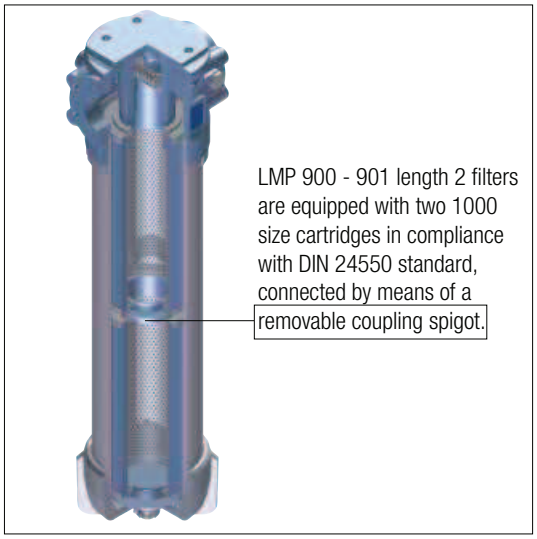
Filter element according to DIN 24550

FILTER ASSEMBLY SIZING
Flow rates [l/min]

Filter series	Length	Filter element design - N Series					
		A03	A06	A10	A16	A25	M25 M60 M90 M250
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

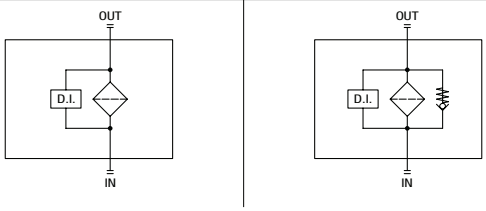
Maximum flow rate for a complete low and medium pressure filter with a pressure drop Δp = 0.7 bar.
The reference fluid has a kinematic viscosity of 30 mm^2/s (cSt) and a density of 0.86 kg/dm^3.
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.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



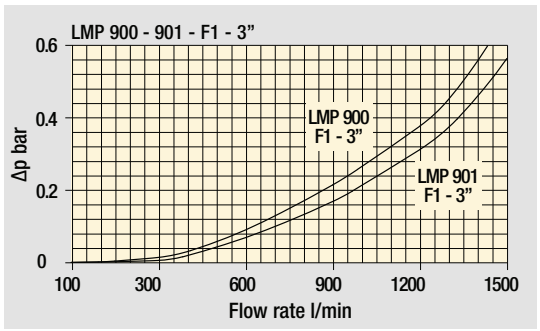
Hydraulic symbols

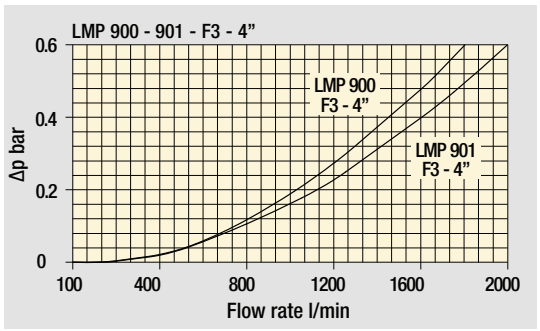
Filter series	Execution S	Execution B
LMP 900-901	•	•



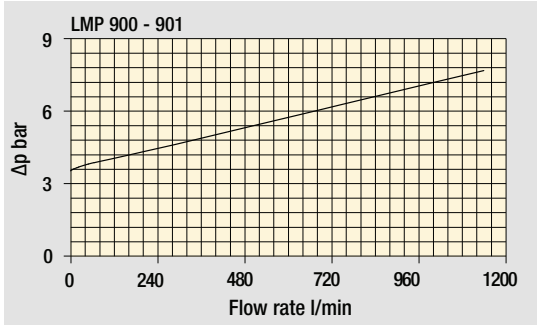
Pressure drop

Filter housings Δp pressure drop





Bypass valve pressure drop



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

LMP 900-901 Filter element 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 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
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
WA025 Water absorber inorganic microfiber 25 µm

Element Δp
N 20 bar

Execution

	Filter length 1	2
P01 MP Filtri standard	•	•
P02 Maintenance from the bottom of the housing		•
Pxx 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
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
WA025 Water absorber inorganic microfiber 25 µm

Seals
A NBR
V FPM

Element Δp
N 20 bar

Execution
P01 MP Filtri standard
Pxx Customized

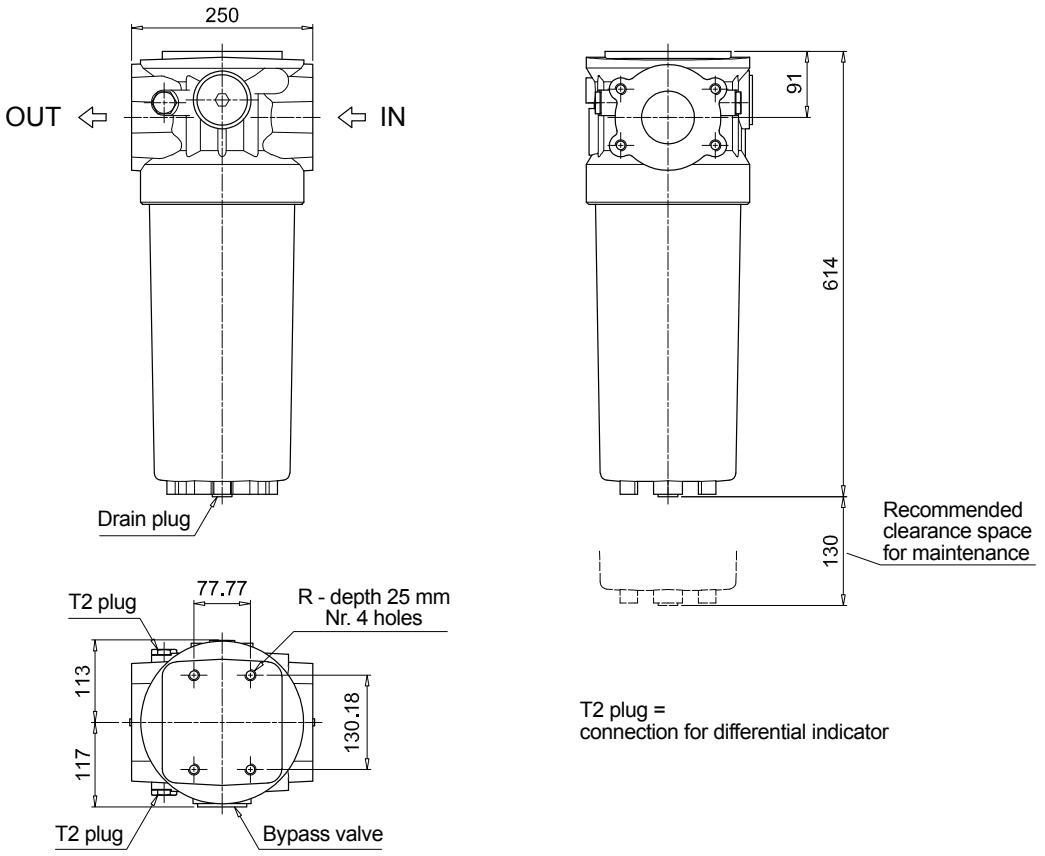
ACCESSORIES

Differential indicators

		page
DEA	Electrical differential indicator	445
DEM	Electrical differential indicator	445-446
DLA	Electrical / visual differential indicator	446-447
DLE	Electrical / visual differential indicator	447
DTA	Electronic differential indicator	448
DVA	Visual differential indicator	448
DVM	Visual differential indicator	448

Additional features	Filter length 1	2	page
T2 Plug	•	•	449
CFA Retaining clamp		•	450

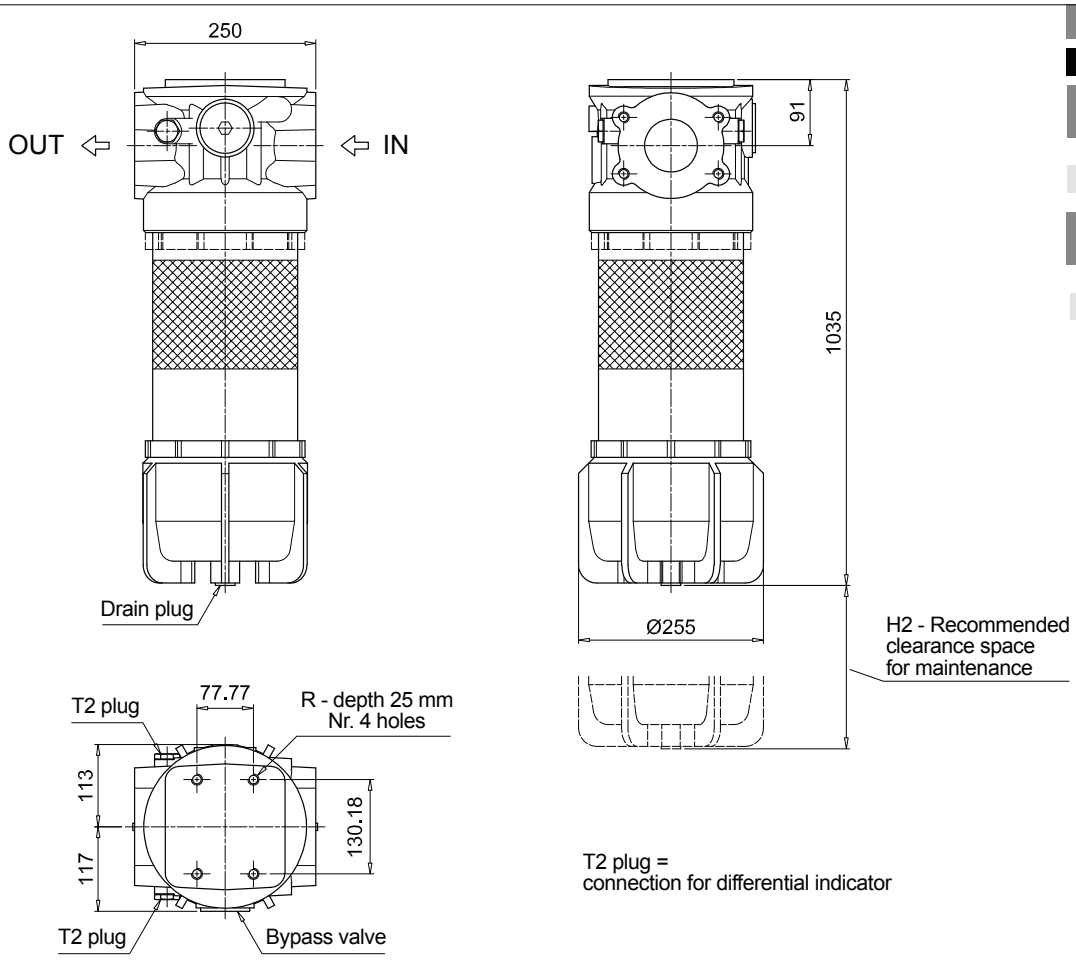
Dimensions



LMP900

Length 1

Connections	R
F1 - F3	M16
F2 - F4	5/8" UNC



LMP900

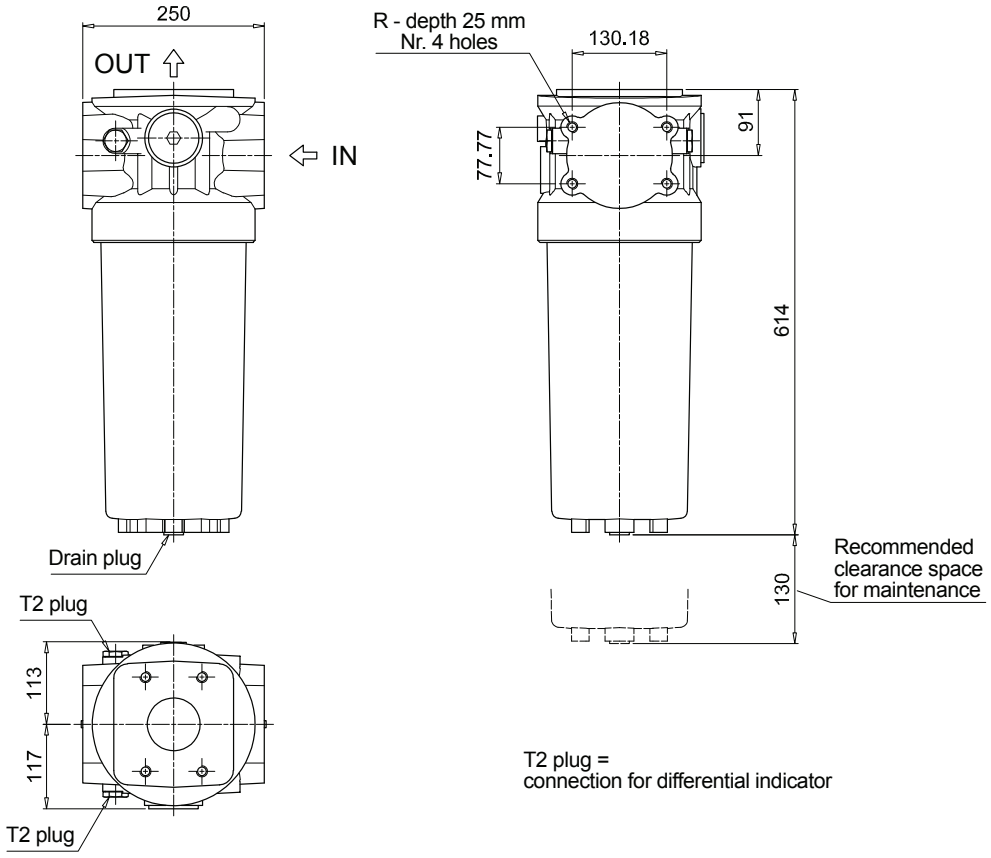
Length 2

Execution	H2 [mm]
P01	130
P02	800

Connections	R
F1 - F3	M16
F2 - F4	5/8" UNC

LMP 900-901 Filter element according to DIN 24550

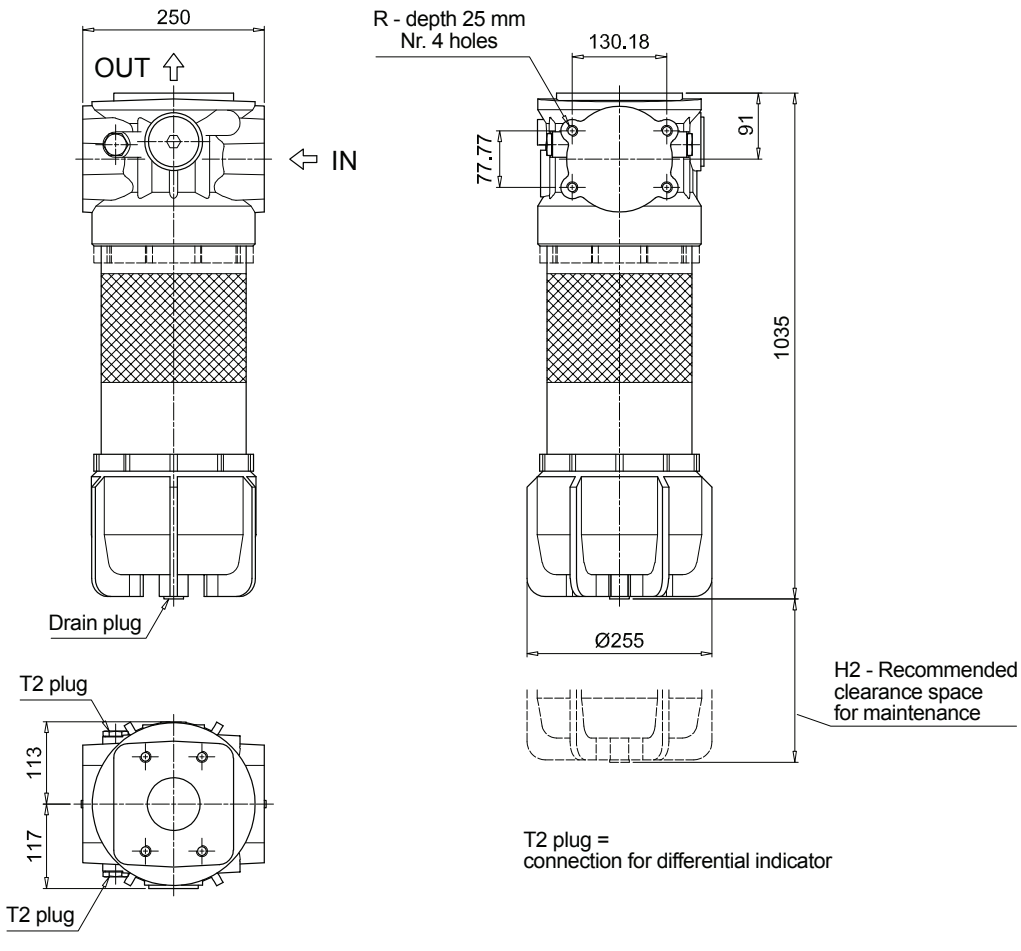
Dimensions



LMP901

Length 1

Connections	R
F1 - F3	M16
F2 - F4	5/8" UNC



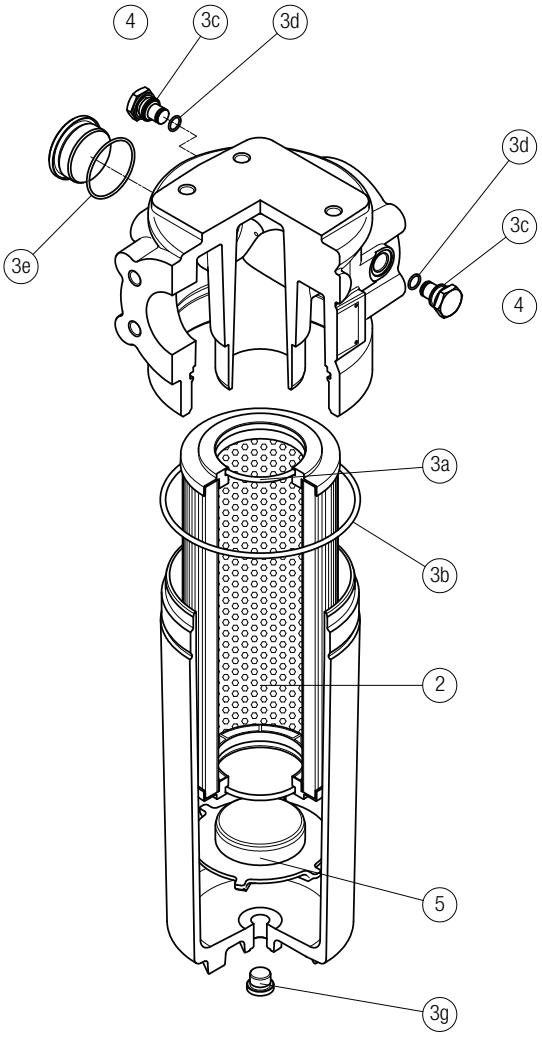
LMP901

Length 2

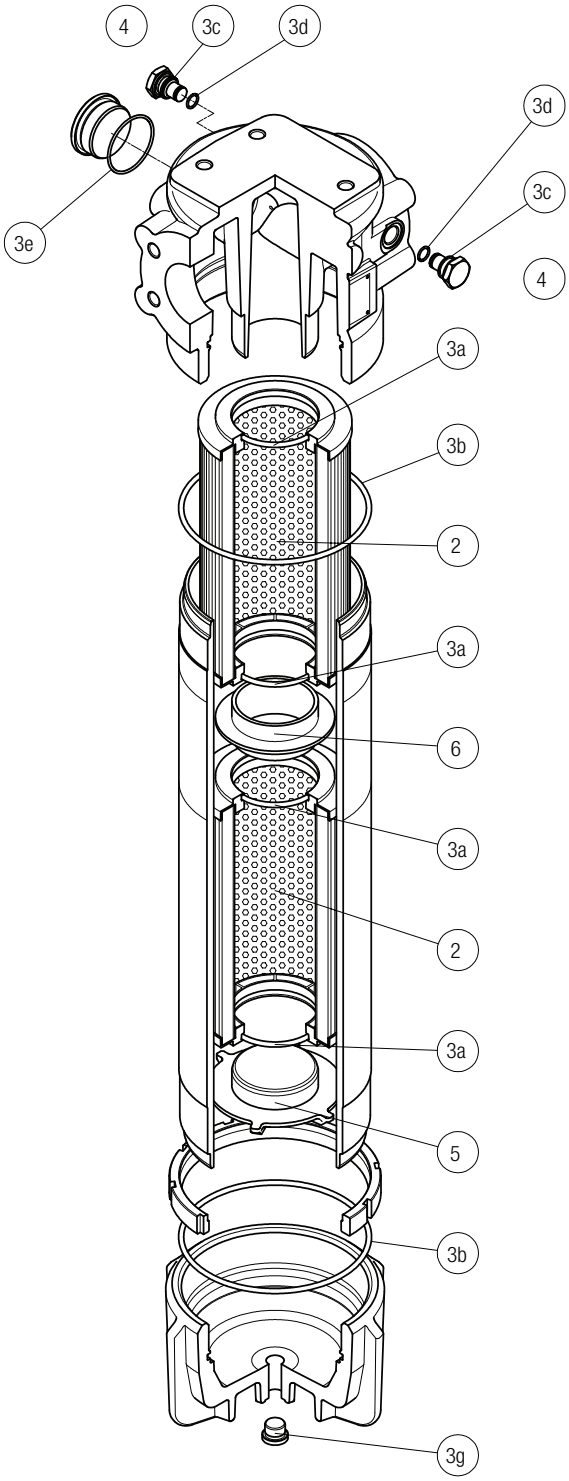
Execution	H2 [mm]
P01	130
P02	800

Connections	R
F1 - F3	M16
F2 - F4	5/8" UNC

LMP 900 - 901
length 1



LMP 900 - 901
length 2



Item:	2		3 (3a ÷ 3g)			4			5		6	
Filter series	Filter element Q.ty		Seal Kit code number Q.ty	NBR	FPM	Indicator connection plug Q.ty	NBR	FPM	Housing spigot Q.ty		Coupling spigot 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.	