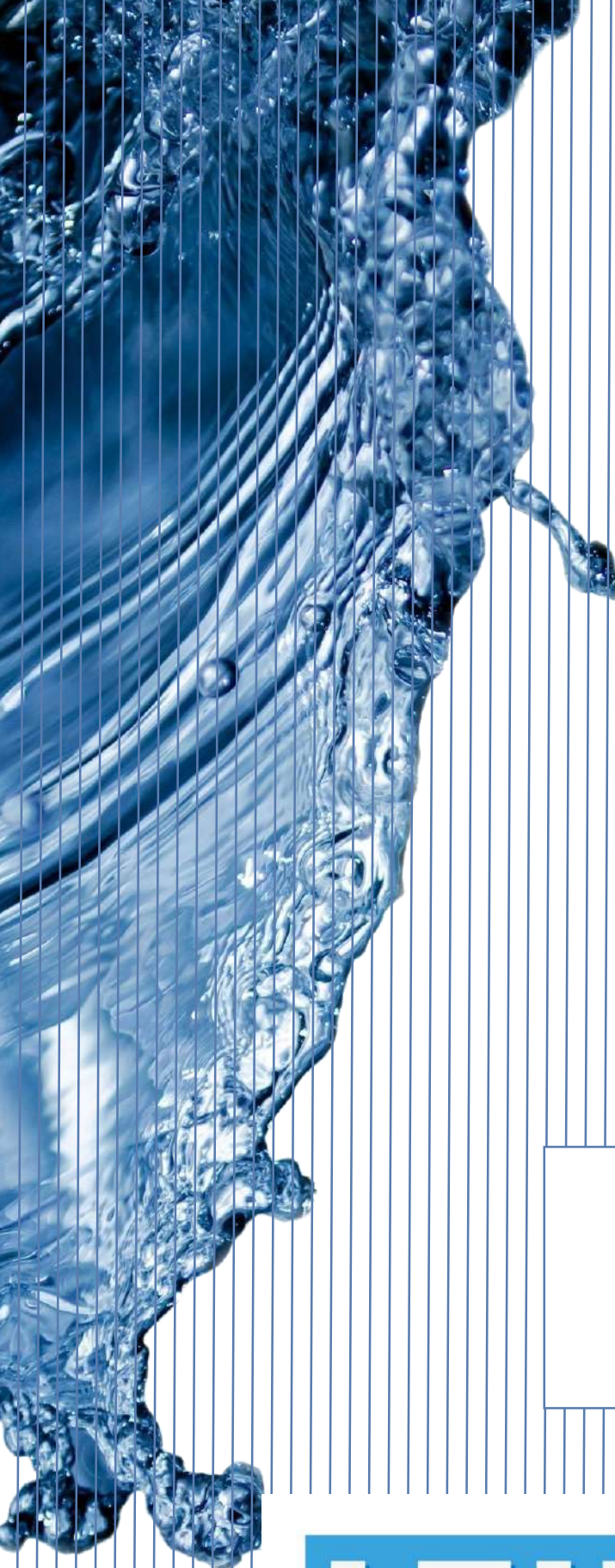




Filtro MP
Serie LMP
210-211



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

LMP 210-211

Maximum working pressure up to 6 MPa (60 bar) - Flow rate up to 365 l/min



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



LMP210



LMP211

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to get updated electronic version
of the related document.



For all the QR codes: Scan or click me!

LMP 210-211 GENERAL INFORMATION

Description

Technical data

Low & Medium Pressure filters

Maximum working pressure up to 6 MPa (60 bar)

Flow rate up to 365 l/min

LMP210 is a range of versatile low pressure filter for transmission, protection of sensitive components in low pressure hydraulic systems and filtration of the coolant into the machine tools.

They are also suitable for the off-line filtration of small reservoirs.

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

Available features:

- Flanged connections up to 1 1/2", for a maximum flow rate of 365 l/min (LMP210)
- Female threaded connections up to 1 1/2", for a maximum return flow rate of 365 l/min (LMP211)
- 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
- Visual, electrical and electronic differential clogging indicators

Common applications:

Delivery lines, in any low pressure industrial equipment or mobile machines

Filter housing materials

- Head: Aluminium
- Bowl: Cathaphoretic painted steel
- Bypass valve: AISI 304 - Polyamide

Pressure

- Test pressure: 9 MPa (90 bar)
- Min. Burst pressure: 18 MPa (180 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 6 MPa (60 bar)

Bypass valve

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

Filter element features

Filter LMP 210-211	Filter element CU		
Δp Element type			
Element media	Construction	Δp Series	Δp
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 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

Connections

Inlet/Outlet In-Line

Temperature

From -25 °C to +110 °C

Note

LMP 210 - 211 filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]				Volumes [dm ³]			
	Length	1	2	3	Length	1	2	3
LMP 210-211		3.10	4.80	6.40		1.60	2.10	2.80

GENERAL INFORMATION LMP 210-211

Flow rates [l/min]

Filter series	Length	Filter element design - N Series									
		A03	A06	A10	A16	A25	M25	M60	M90	P10	P25
LMP 210	1	106	130	190	200	221	286	287	287	261	265
	2	153	175	220	237	249	288	289	290	265	269
	3	204	214	248	260	265	289	290	291	277	281
LMP 211	1	118	149	227	240	269	358	359	360	324	330
	2	178	207	268	292	307	361	362	363	329	335
	3	247	260	306	323	329	362	363	364	345	351

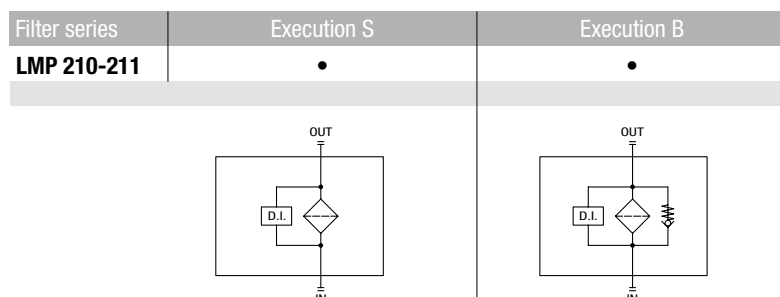
Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

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.

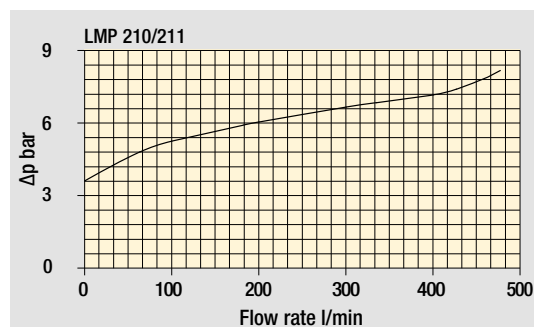
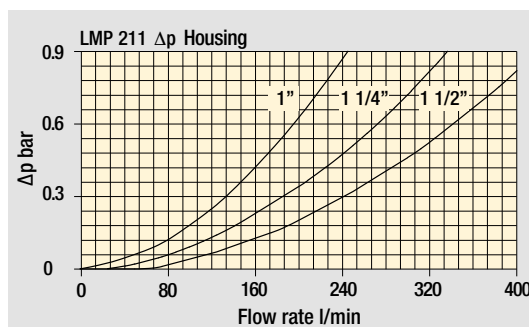
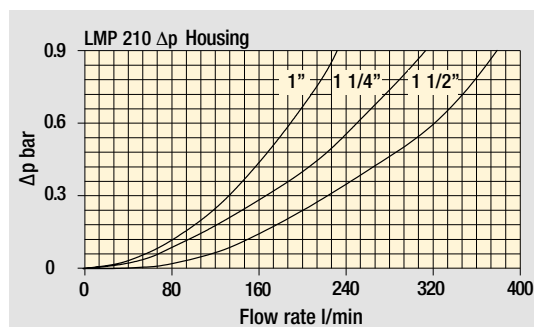
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols



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 210

Designation & Ordering code

COMPLETE FILTER

Series and size	Configuration example: LMP210 3 B A F1 A10 N P01									
LMP210										
Length										
1 2 3										
Bypass valve										
S Without bypass	B With bypass 3.5 bar									
Seals and treatments										
A NBR										
V FPM										
E EPDM										
Connections										
F1 1" SAE 3000 psi/M										
F2 1 1/4" SAE 3000 psi/M										
F3 1 1/2" SAE 3000 psi/M										
F4 1" SAE 3000 psi/UNC										
F5 1 1/4" SAE 3000 psi/UNC										
F6 1 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										
Element Δp	Execution									
N 20 bar	P01 MP Filtri standard									
	Pxx Customized									

FILTER ELEMENT

Element series and size	Configuration example: CU210 3 A10 A N P01									
CU210										
Element length										
1 2 3										
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										
E EPDM										
Element Δp	Execution									
N 20 bar	P01 MP Filtri standard									
	Pxx Customized									

CLOGGING INDICATORS

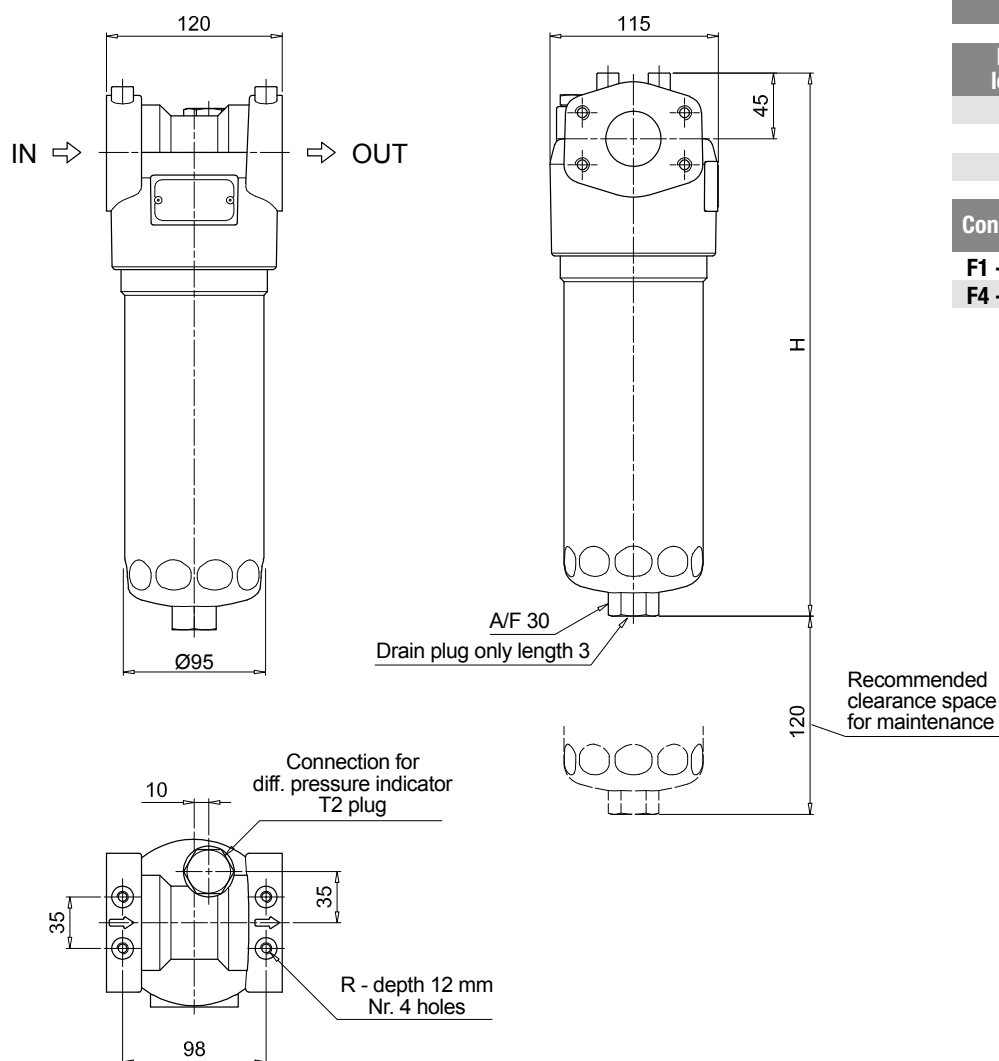
See page 720

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 741

T2 Plug



LMP210

Filter length	H [mm]
1	362
2	492
3	633

Connections	R
F1 - F2 - F3	M8
F4 - F5 - F6	5/16" UNC

LMP 211

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: LMP211									
LMP211		3	B	A	D	6	A10	N	P01		
Length											
1 2 3											
Bypass valve											
S Without bypass		B With bypass 3.5 bar									
Seals and treatments											
A NBR		E EPDM									
V FPM		C CR									
Connections											
A G 1"											
B G 1 1/4"											
C G 1 1/2"											
D 1" NPT											
E 1 1/4" NPT											
F 1 1/2" NPT											
G SAE 16 - 1 5/16" - 12 UN											
H SAE 20 - 1 5/8" - 12 UN											
I SAE 24 - 1 7/8" - 12 UN											
Connection for differential pressure indicator											
6 With plugged connection											
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											
		Element Δp		Execution							
		N 20 bar		P01 MP Filtri standard							
				Pxx Customized							

FILTER ELEMENT

Element series and size		Configuration example: CU210									
CU210		3	A10	A	N	P01					
Element length											
1 2 3											
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		E EPDM									
V FPM		C CR									
		Element Δp		Execution							
		N 20 bar		P01 MP Filtri standard							
				Pxx Customized							

CLOGGING INDICATORS

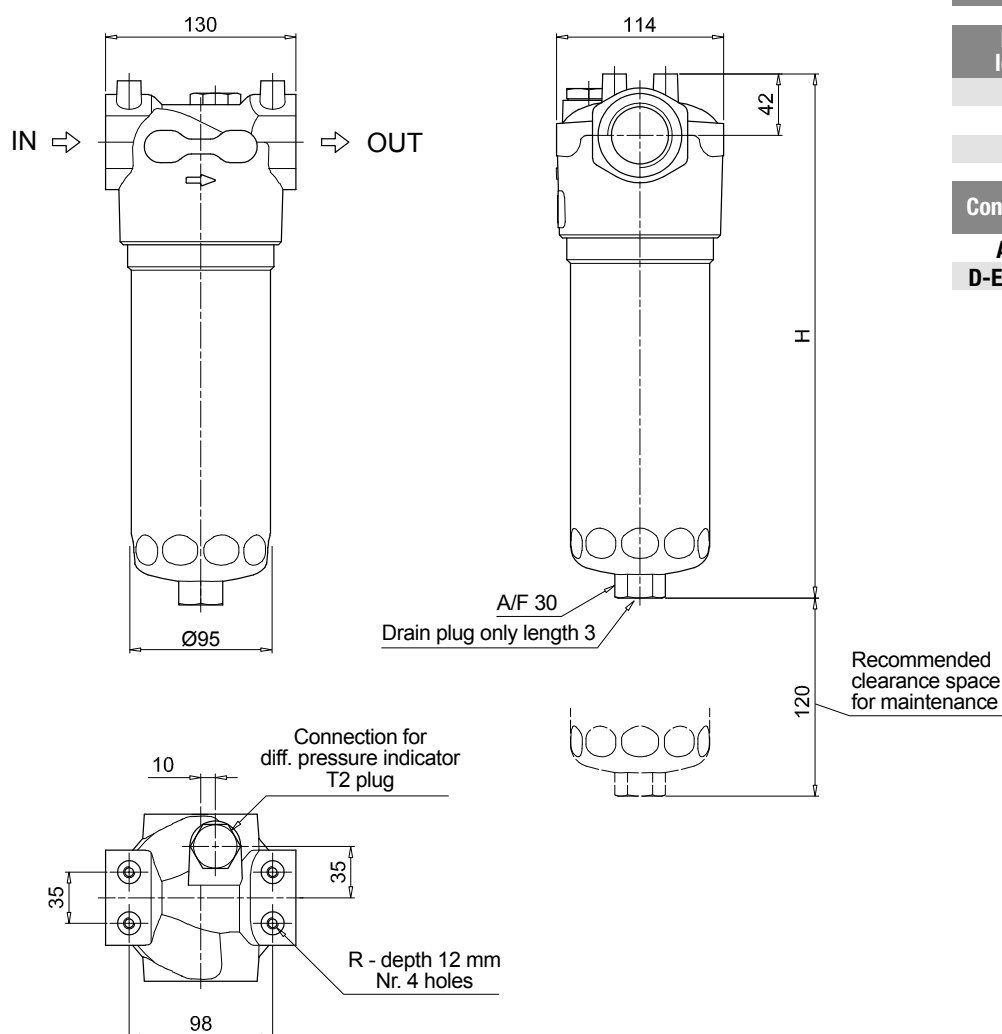
See page 720

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 741

T2 Plug



LMP211

Filter length	H [mm]
1	358
2	488
3	629

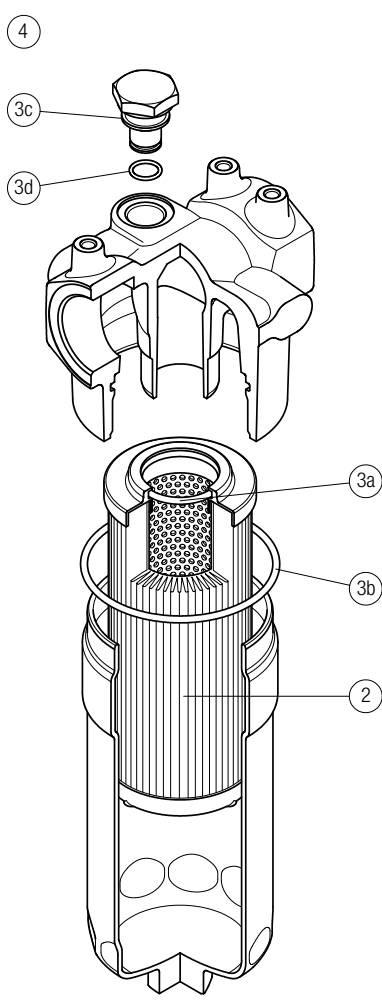
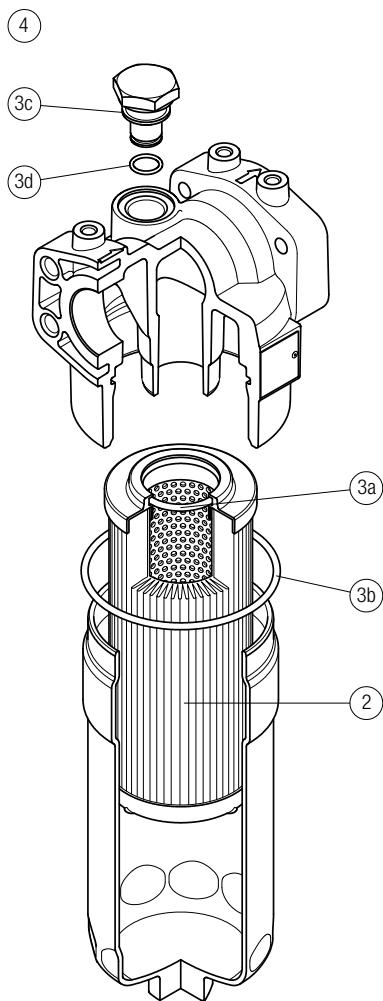
Connections	R
A-B-C	M8
D-E-F-G-H-I	5/16" UNC

LMP 210-211 SPARE PARTS

Order number for spare parts

LMP 210

LMP 211



Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.	
Item:		3 (3a ÷ 3d)		4	
Filter series	Filter element	Seal Kit code number		Indicator connection plug	
	See order table	NBR	FPM	NBR	FPM
LMP 210-211		02050435	02050436	T2H	T2V

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