

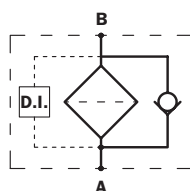
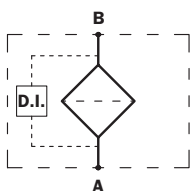
LMP 900 - 901

Filter element in according to DIN 24550



Style **S**

Style **B**



Maximum pressure 30 bar
Flow rates to 2000 l/min

Filter housing (Materials)

- Head: Anodised Aluminium
- Housing: Anodised Aluminium
- Manifolds: Anodised Aluminium
- Bypass valve: Steel

Pressure

- Working pressure: 30 bar (3 MPa)
- Test pressure: 45 bar (4.5 MPa)
- Burst pressure: 120 bar (12 MPa)
- Pulsed pressure fatigue test: 1.000.000 cycles with pressure from 0 to 30 bar (3 MPa)

Temperature

- From -25 °C to +110 °C

Bypass valve

- Opening pressure 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 in according to with DIN 24550
- Size: 1000

Δp Elements type

- Series N elements: 20 bar
- Oil flow from exterior to interior.

Seals

- Standard NBR series A
- Optional FPM series V

Weights (kg)

Length

- LMP900 -1 19.2
- LMP900 -2 30.4

Volumes (dm³)

Length

- LMP900 -1 16
- LMP900 -2 24

Connections

In-Line Inlet-Outlet LMP 900

90° Inlet-Outlet LMP 901

Compatibility (to ISO 2943)

- Housings compatible with:
Mineral oils, synthetic fluids,
aqueous emulsions, water and glycol.
- The filter elements are compatible with:
Mineral oils, synthetic fluids,
aqueous emulsions, water and glycol.
- NBR seals series A, compatible with:
Mineral oils, synthetic fluids, aqueous emulsions and
water and glycol.
- FPM seals series V, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU

Filter Element Area

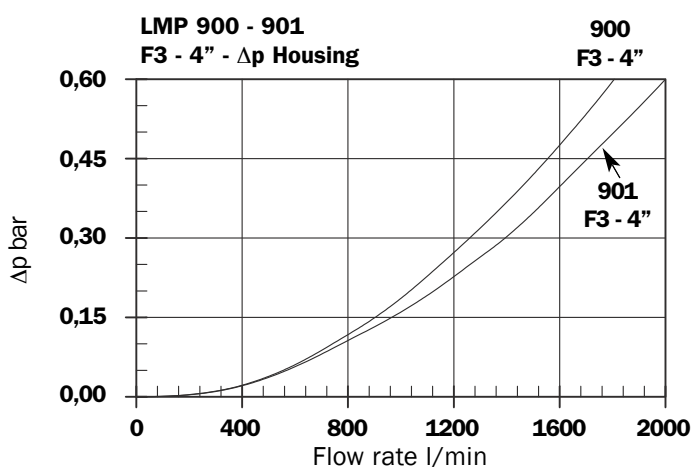
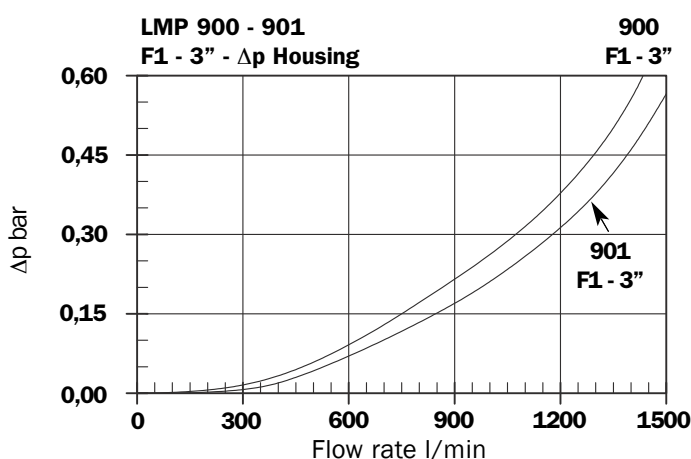
Filter element in stainless steel mesh

Type	Length	
	1	2
CU 900	13000	26000
Values expressed in cm ²		

Filter housing Δp pressure drop

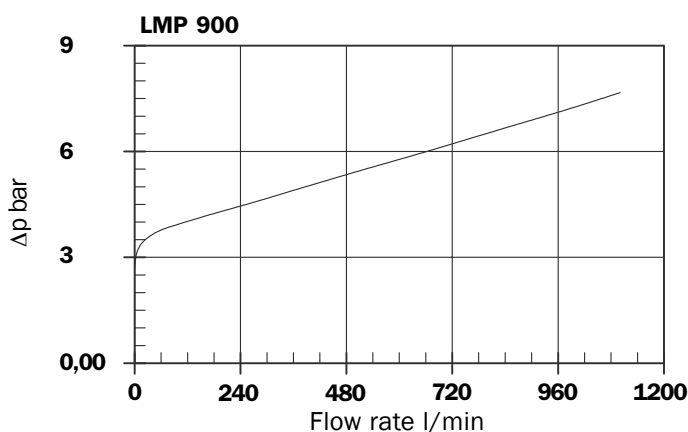
The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

Δp varies proportionally with density.



Valves

Bypass valve pressure drop



LMP 900



LMP 900 - 901 filters are equipped with two 1000 size cartridges in compliance with DIN 24550 standard, connected by means of a removable coupling spigot.

Coupling spigot

Recommended maximum flow rate

Recommended maximum flow rate for filters installed on lubrication lines, return or in-line filters is defined by the maximum oil velocity in the connections.
For filters mounted on Off-Line lines the maximum recommended flow rate is defined by the pressure drop of the filter element.

Filter for pressurised lubrication, max.
oil velocity 2.5 m/sec.
Return or in-line filter, max oil
velocity 5 m/sec.

Oil velocity	Connections	
	3"	4"
2,5 m/sec.	750	1200
5 m/sec.	1500	2400

Flow rate l/min

Off-Line filter, filter element recommended maximum pressure drop must be equal to $\Delta p\ 0.2 \div 0.3$ bar.

Recommended maximum flow rate

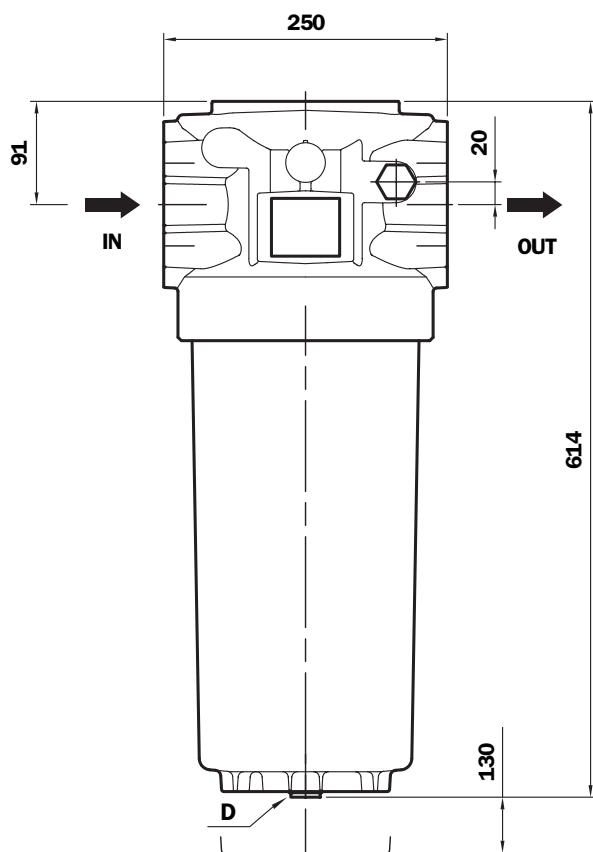
- Pressure drop of filter assembly equal to $\Delta p\ 0.6$ bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.

Filtration							
	Length	A03	A06	A10	A16	A25	M25
LMP 900	1	600	750	1100	1150	1250	1500
Connection: Flange SAE 3000 3"	2	950	1100	1300	1350	1400	1500
LMP 900	1	650	800	1200	1250	1400	1900
Connection: Flange SAE 3000 4"	2	1000	1200	1550	1550	1650	2000

Flow rate l/min

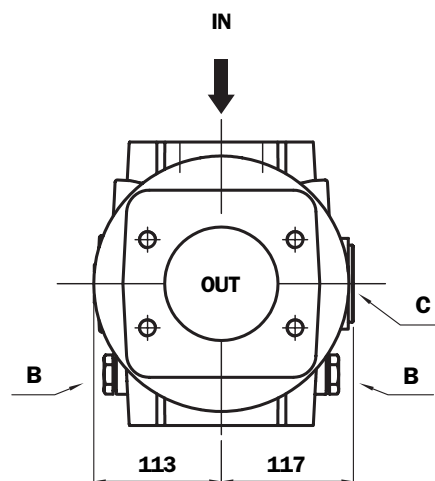
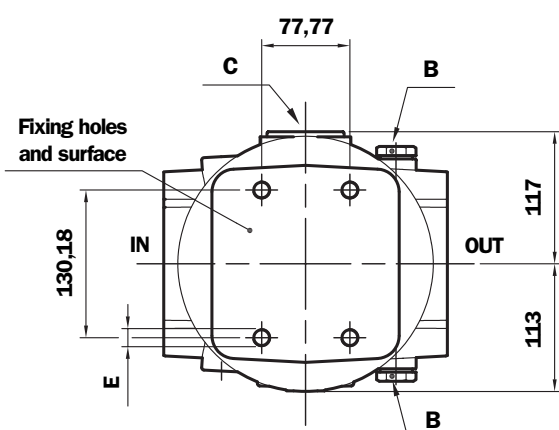
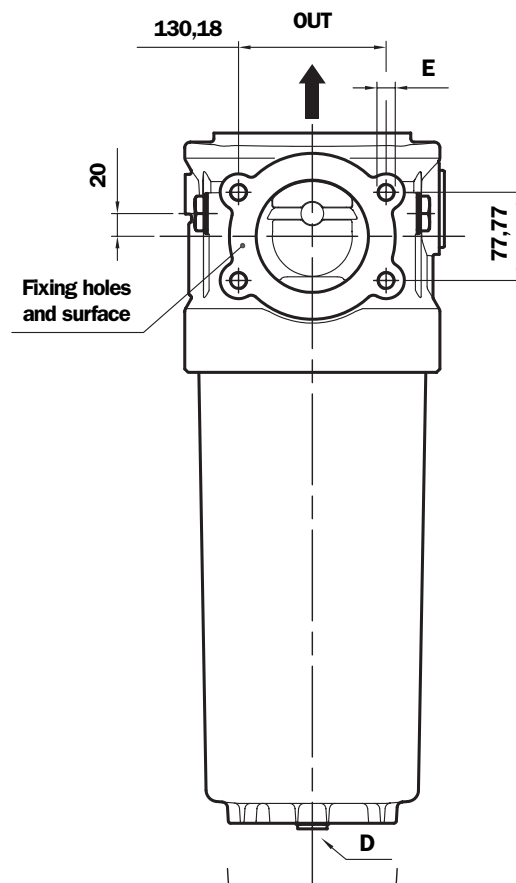
LMP 900

Length 1



LMP 901

Length 1



Flanged IN - OUT connections

St.	A	E Depth 25 mm
F1	3" SAE - 3000 psi/M	M16
F2	3" SAE - 3000 psi/UNC	M16
F3	4" SAE - 3000 psi/M	5/8" UNC
F4	4" SAE - 3000 psi/UNC	5/8" UNC

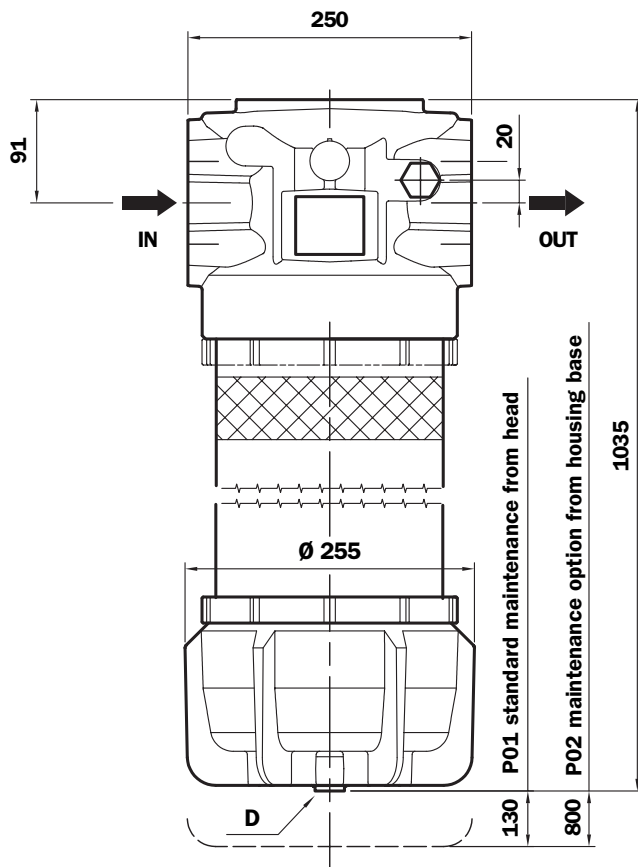
B - Indicator port - Plug T2 - A/F 30

C - Bypass valve - A/F 17

D - Oil drain plug - G 1/2" - A/F 8

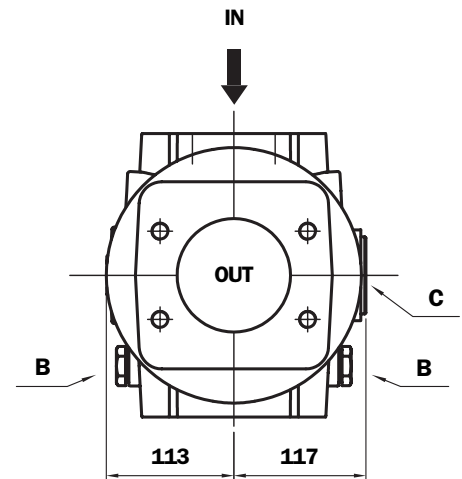
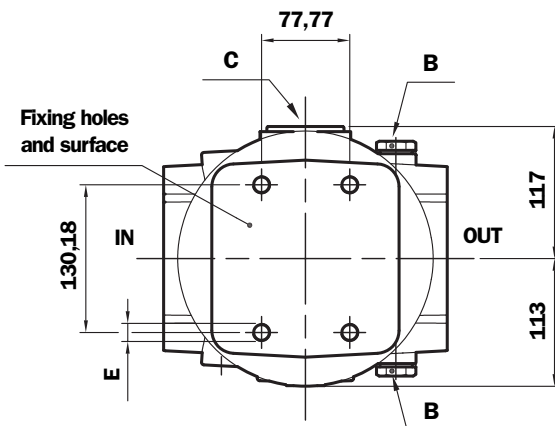
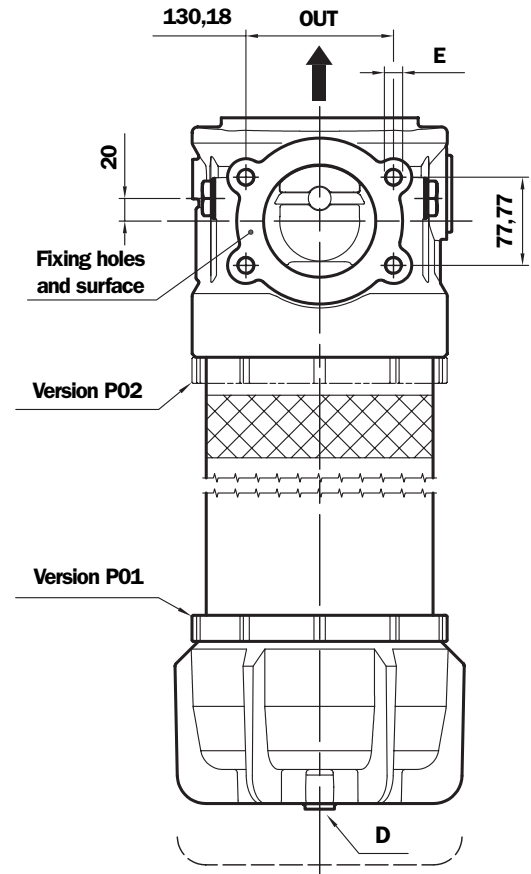
LMP 900

Length 2



LMP 901

Length 2



Flanged IN - OUT connections

St.	A	E Depth 25 mm
F1	3" SAE - 3000 psi/M	M16
F2	3" SAE - 3000 psi/UNC	M16
F3	4" SAE - 3000 psi/M	5/8" UNC
F4	4" SAE - 3000 psi/UNC	5/8" UNC

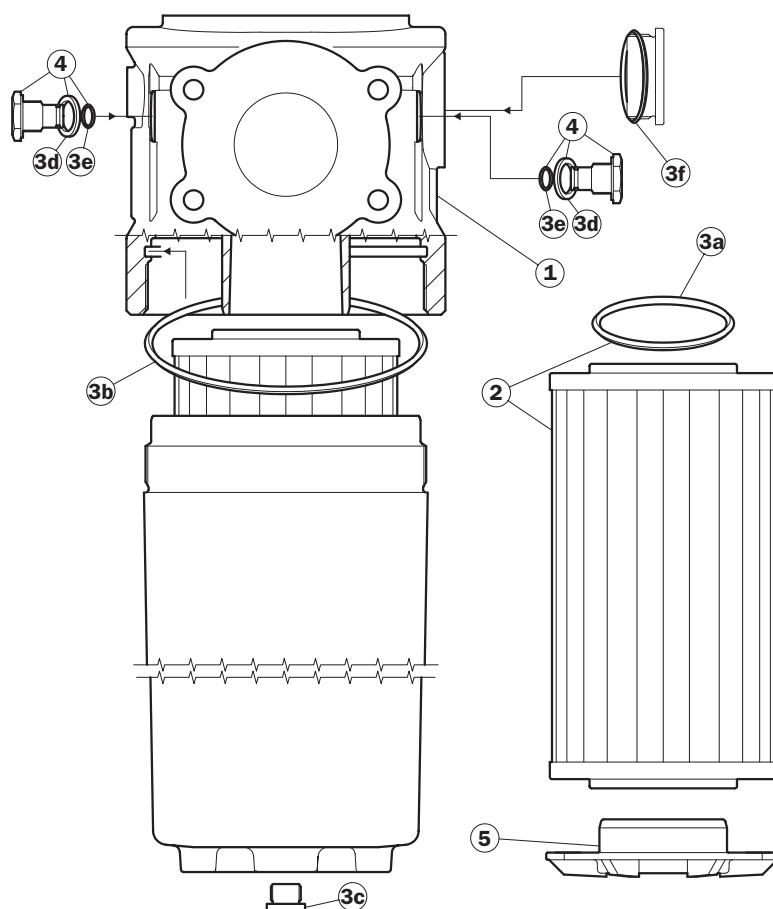
B - Indicator port - Plug T2 - A/F 30

C - Bypass valve - A/F 17

D - Oil drain plug - G 1 1/2" - A/F 8

Spare parts

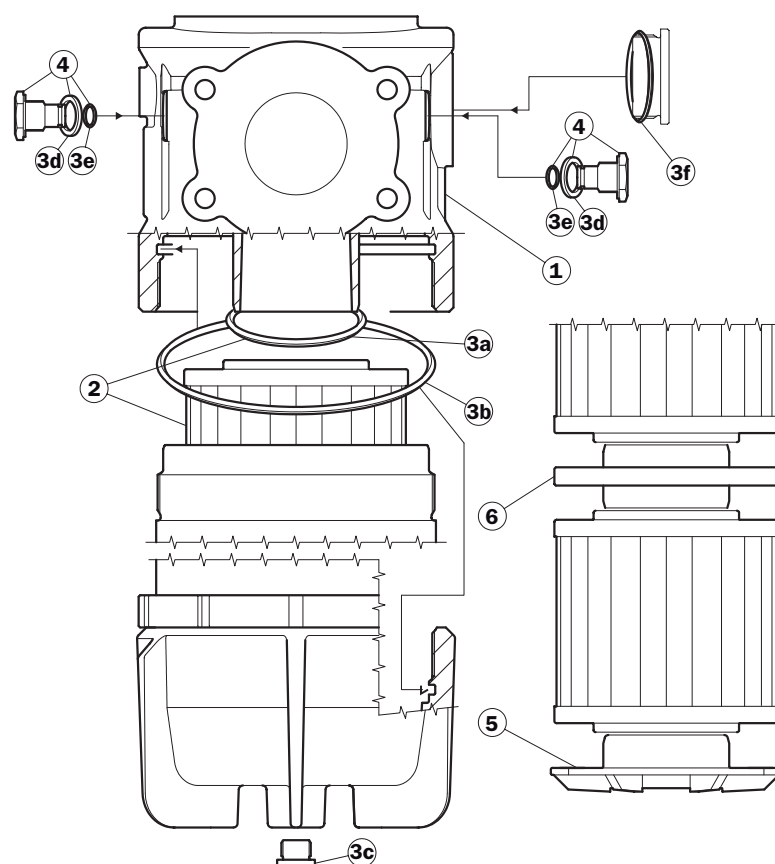
Length 1



Item	Description	Q.ty	FILTER Series LMP 900 - 901	
1	Filter assembly	1	See order table	
2	Filter Element	1	See order table	
3	Seals kit	1	NBR 02050363	FPM 02050364
3a	Filter element O-Ring	2	O-R 185 Ø 89,69 x 5,33	
3b	O-Ring for housing	1	O-R 6745 Ø 189,86 x 5,34	
3c	Oil drain plug	1	G 1/2" with seal	
3d	Seal for indicator	2	01030058	01030046
3e	O-Ring for indicator	2	O-R 2050 Ø 12,42 x 1,78	
3f	By-pass plug O-Ring	1	O-R 3243 Ø 61,6 x 2,62	
4	Indicator connection plug	2	T2H	T2V
5	Housing spigot	1	01044104	
-	Indicators	1	See order table	

Spare parts

Length 2



Item	Description	Q.ty	FILTER Series LMP 900 - 901	
1	Filter assembly	1	See order table	
2	Filter Element	2	See order table	
3	Seals kit	1	NBR 02050365	FPM 02050366
3a	Filter element O-Ring	4	O-R 185 Ø 89,69 x 5,33	
3b	O-Ring for housing	2	O-R 6745 Ø 189,86 x 5,34	
3c	Oil drain plug	1	G 1/2" with seal	
3d	Seal for indicator	2	01030058	01030046
3e	O-Ring for indicator	2	O-R 2050 Ø 12,42 x 1,78	
3f	By-pass plug O-Ring	1	O-R 3243 Ø 61,6 x 2,62	
4	Indicator connection plug	2	T2H	T2V
5	Housing spigot	1	01044104	
6	Coupling spigot	1	01044099	
-	Indicators	1	See order table	

Ordering information LMP 900 - 901

Filter assembly LMP

Example: LMP

1	2	3	4	5	6	7	8a
900	2	B	A	F1	A10	N	P01

Filter element CU900

Example: CU900

6	4	7	8b
A10	A	N	P01 (2 cartridges required)

1 - Style

Filter

Filter element

900
901

900
900

2 - Filter length

	With 1 CU 900 cartridge
	With 2 CU 900 cartridges

3 - Valve

	Without by-pass
	With bypass
	With by-pass
	Opening pressure: on request

4 - Filter seals

	NBR
	FPM
	On request

5 - Connections

Flanged

Type	LMP 900 - 901
F1	3" SAE 3000 psi/M
F2	3" SAE 3000 psi/UNC
F3	4" SAE 3000 psi/M
F4	4" SAE 3000 psi/UNC

6 - Filter element

	Inorganic microfibre* 1 µ	Absolute filtration $\beta_x (c) \geq 1000$
	Inorganic microfibre 3 µ	
	Inorganic microfibre 6 µ	
	Inorganic microfibre 10 µ	
	Inorganic microfibre 16 µ	
	Inorganic microfibre 25 µ	

* On request

	Wire mesh	Nominal Filtration
	Wire mesh	
	Wire mesh	

7 - Max filter element differential pressure

	Δp 20 bar
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8 - Option

a - Filter

	MP Filtri standard
	LMP 900 - 901 Maintenance from base housing (length 2 only)
	Customer request

b - Filter element

	MP Filtri standard
	Customer request

DIFFERENTIAL INDICATORS (see page 120)

MP Filtri - The filter functions as described in this bulletin are valid exclusively for original MP Filtri filter elements and replacement parts. All rights reserved

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