

LMP 902 - 903

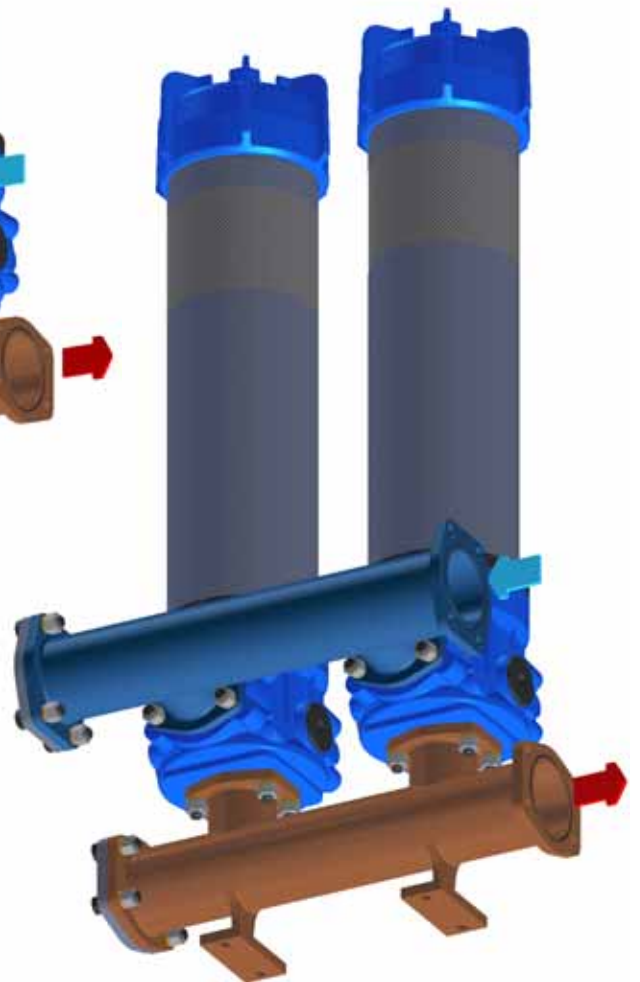
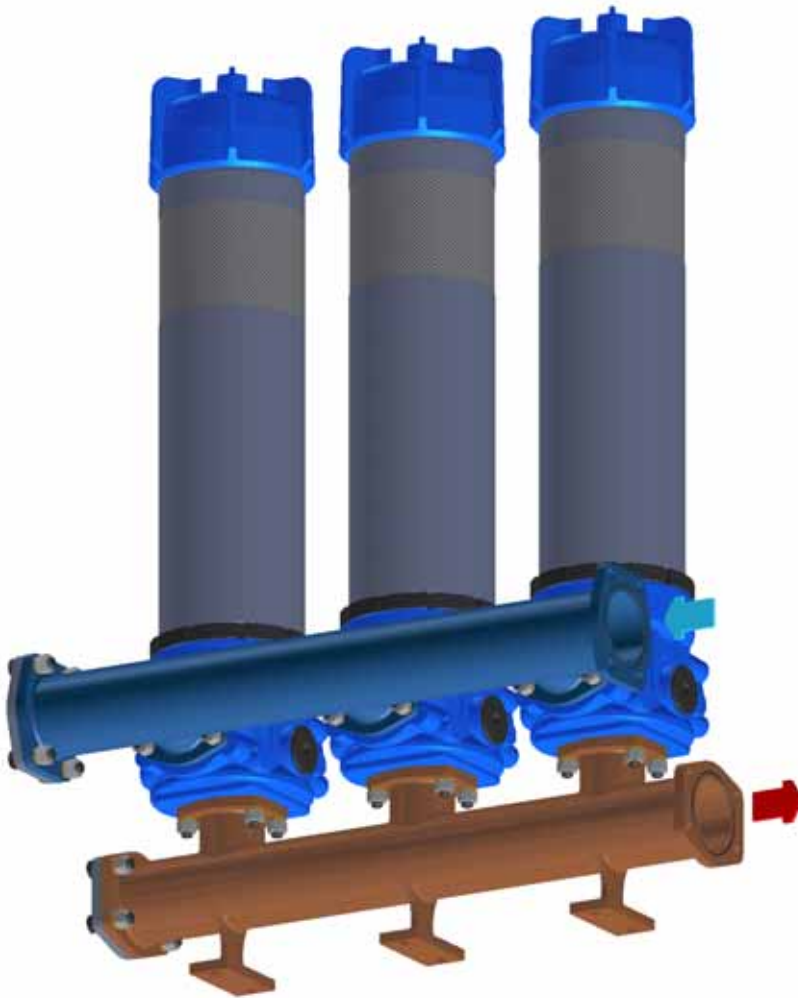


LMP

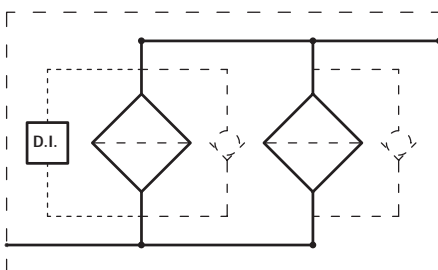
SERIES 902-903

*Working pressure
25 bar*

*Filter elements in compliance
with DIN 24550*



Manifold
version



Technical data

Filter housing (Materials)

- Head: Anodised Aluminium
- Housing: Anodised Aluminium
- Manifolds: Welded - phosphated steel
- Bypass valve: Steel
- 1000 size filter elements complying with DIN 24550 standard .

Pressure

- Working pressure: 25 bar (2.5 MPa)
- Test pressure: 35 bar (3,5 MPa)

Temperature

- From -25°C to +110°C

Bypass valve

- Opening pressure 3.5 bar \pm 10%
- Other opening pressures on request.

Filter elements

- Filter element in compliance with DIN 24550 standard
Size: 1000

Number of filter elements

- LMP 902: 4 filter elements CU900
- LMP 903: 6 filter elements CU900

Elements type Δp

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

Seals

- Standard NBR series A
- Optional FPM series V

Weights (kg)

Length

- LMP902 89.6
- LMP903 129.2

Volumes (dm³)

Length

- LMP902 58
- LMP903 87

Connections

In-line Inlet/Outlet

Compatibility

- Housings compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water and glycol.
- The filter elements are compatible with:
Mineral oils to ISO 2943, Synthetic fluids
Aqueous emulsions, water and glycol (series W required).
- NBR seals series A, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water and glycol.
- V series FPM seals, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU
To ISO 2943

Filter Element Area

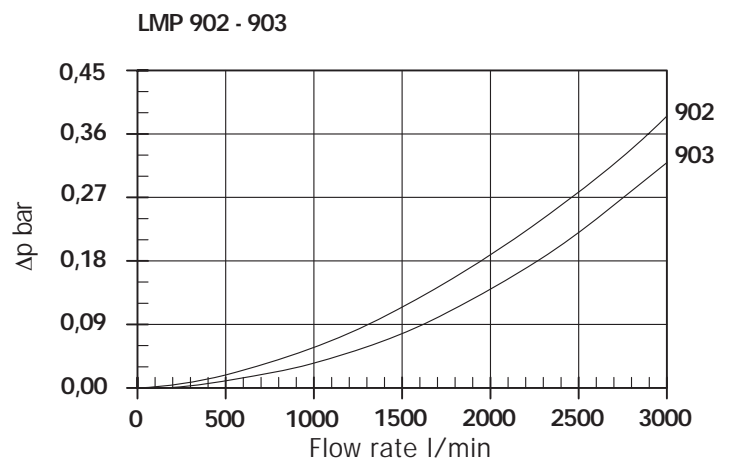
Filter element in stainless steel mesh

Type	LMP	
	902	903
CU900	52000	78000
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.

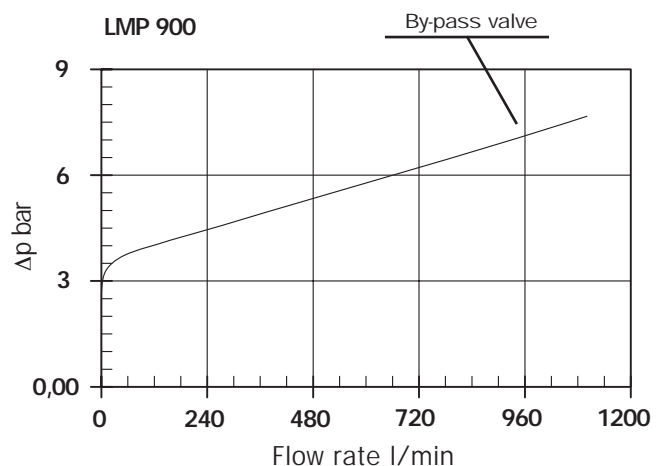
Δp varies proportionally with density.



Valves

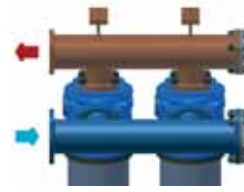
Bypass valve pressure drop

For single filter



Manifolds

Position of manifolds IN - OUT connections



FA



FB



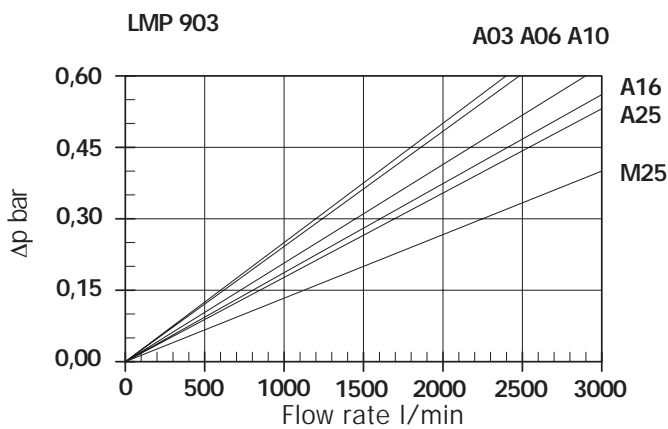
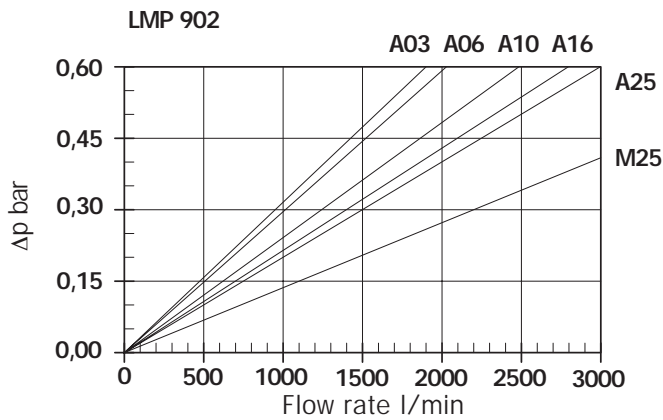
FC



FD

Recommended maximum flow rate

- Pressure drop of filter assembly equal to Δp 0.6 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.
- Connections of filter under test G 4".



Recommended maximum flow rate

The recommended maximum flow rate for filters installed on lubrication lines, return or in-line filters is defined by the oil maximum 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.

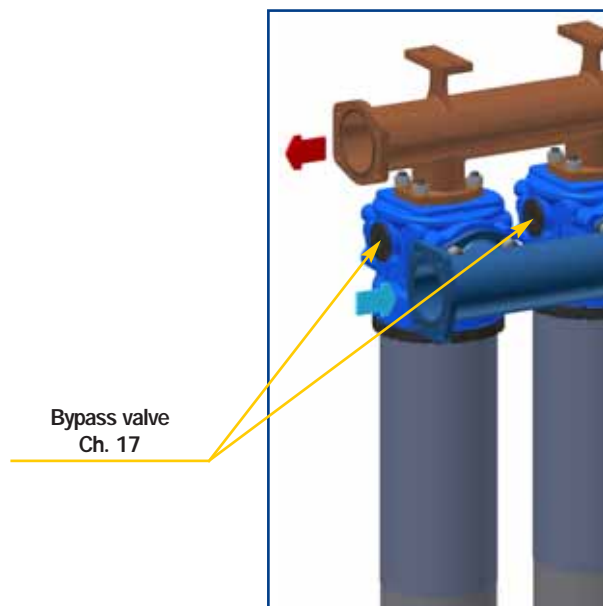
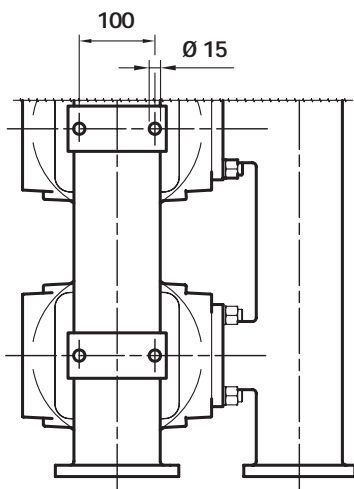
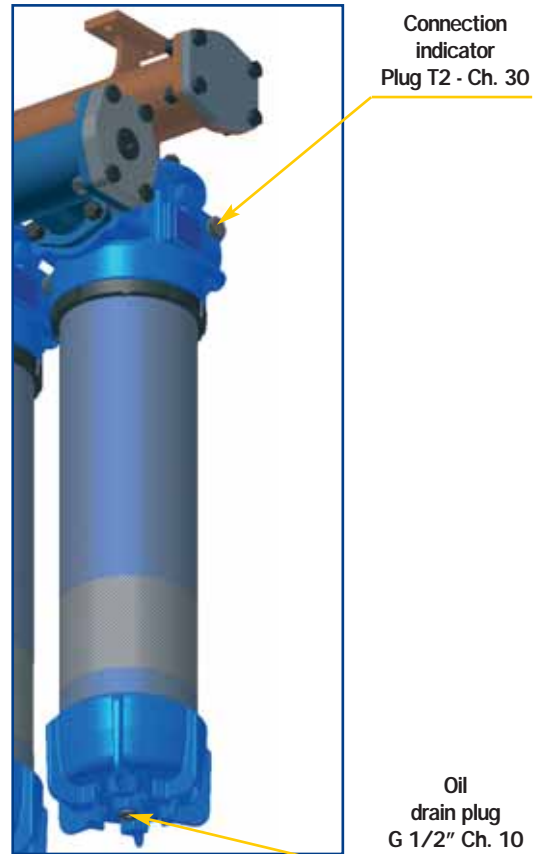
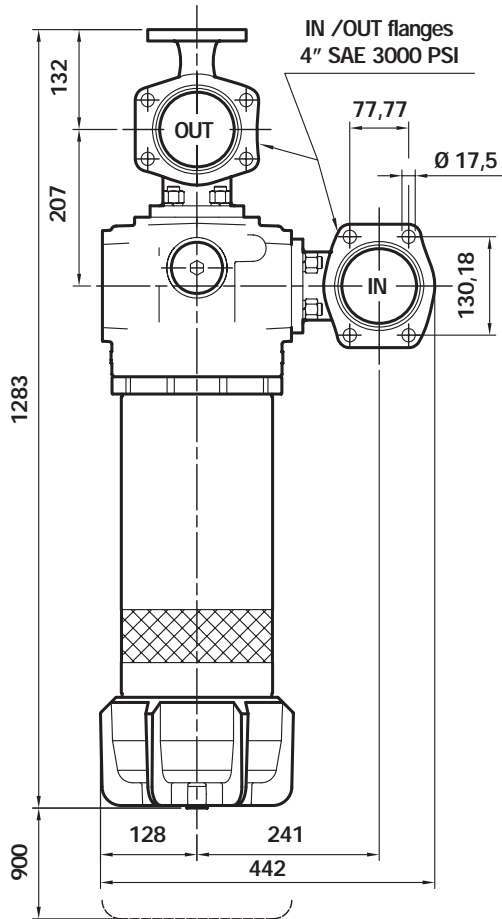
Connection	
Oil velocity	4"
2,5 m/sec.	1200
5 m/sec.	2400

Flow rate l/min

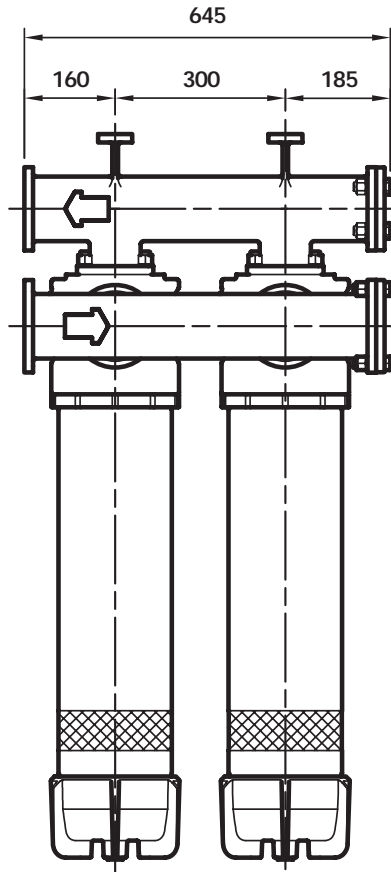
Off-Line filter, the recommended maximum pressure drop of exclusively the filter element must be equal to Δp 0.2 ÷ 0.3 bar.

Dimensions

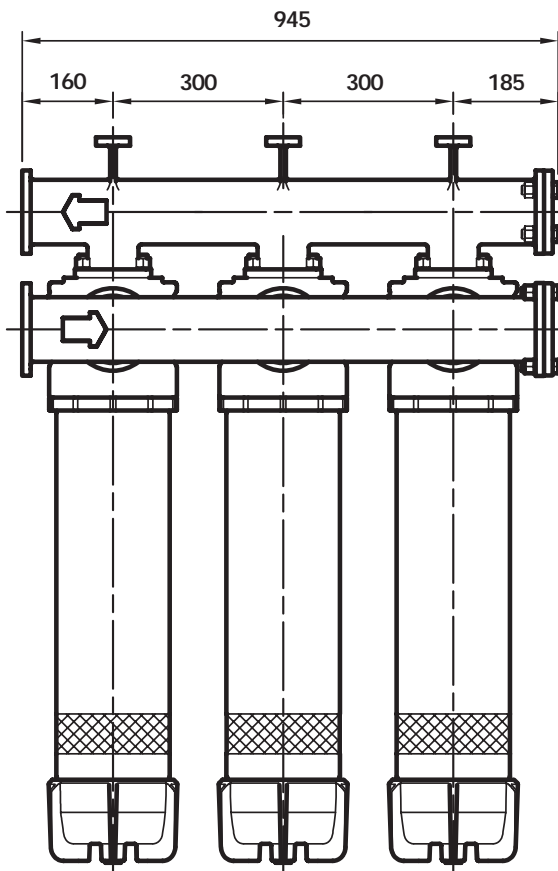
LMP 902-903



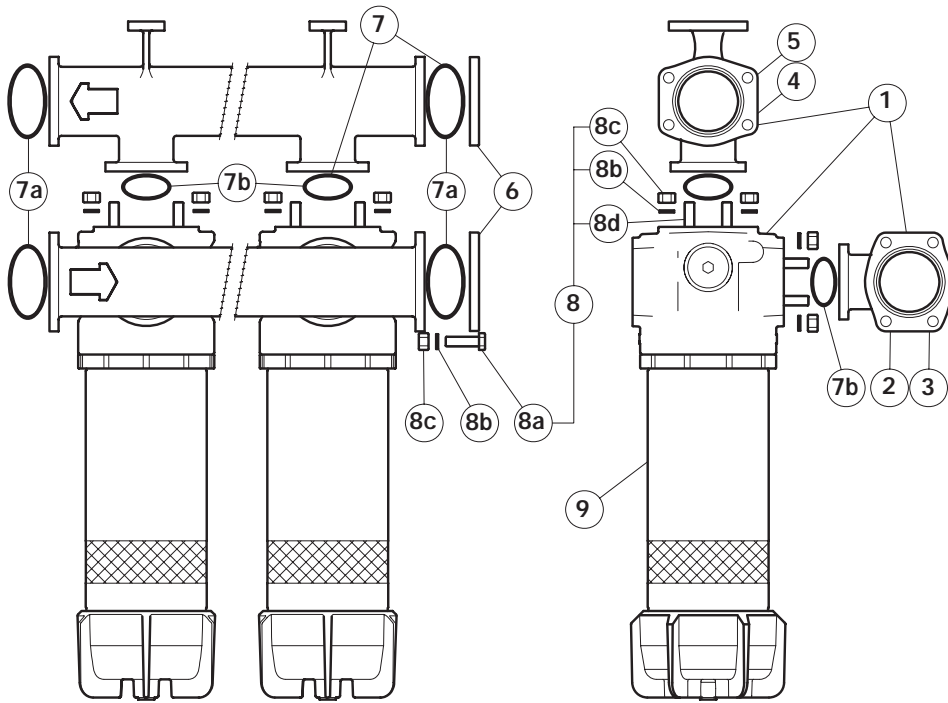
LMP 902



LMP 903



LMP 902/903 Spare parts



Pos.	Description	Qty / LMP 90*		FILTER Series LMP 902/903 - 2	
		*2	*3		
1	Filter assembly	1		See order table	
2	IN manifold with with 2 filter connections	1	-	01039270	
3	IN manifold with 3 filter connections	-	1	01039272	
4	OUT manifold with 2 filter connections	1	-	01039271	
5	OUT manifold with 3 filter connections	-	1	01039273	
6	SAE 4" 3000 psi flange	2		01042020	
7	Manifolds seal kit	1		NBR 02050404	FPM 02050405
7a	IN - OUT O-Ring	4	4	O-R 4437 Ø 110.7 x 3.53	
7b	Manifolds/filter O-Ring	4	6	O-R 4337 Ø 85.32 x 3.53	
8	Threaded fasteners kit	1		LMP902 - 02049051 LMP903 - 02049052	
8a	Screws for IN-OUT flanges	8	8	UNI-EN 24017 M16 x 55-10.9	
8b	Circlips	24	32	UNI 1751 - B16	
8c	Nuts	24	32	UNI-EN 24032-M16-10.9	
8d	Studs	16	24	M16 x 40 - 10.9	
9	Filter	2	3	See order table LMP 9012F1.....P02 page 59	
-	Filter spare parts pos. 9	2	3	See table spare parts LMP 9012F1.....P02 page 57	
-	Filter seals kit pos. 9	2	3	See table spare parts LMP 9012F1.....P02 page 57	
-	Indicators	1		See order table	

LMP902/903 ordering information

Filter assembly LMP

Example: LMP

1	2	3	4	5	6	7	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
903	2	B	A	FB	A10	N	P01

Filter Element CU 900

Example: CU900

6	4	7	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A10	A	N	P01 (6 cartridges required)

1 - Sizes

902	With 4 cartridges CU900
903	With 6 cartridges CU900

2 - Filter length

2

3 - Valves

S	Without by-pass
B	With by-pass

4 - Seals

A	NBR
V	FPM

5 - Connections

Type

FA	See page 63
FB	See page 63
FC	See page 63
FD	See page 63

6 - Filter element

A03	3 µm	A16	16 µm	Absolute filtration Inorganic microfibre βx (c) ≥ 1000 see page 9
A06	6 µm	A25	25 µm	
A10	10 µm			
M25	25 µm	M90	90 µm	Nominal Filtration Metal mesh see page 9
M60	60 µm			

7 - Filter elements series

N	Δp 20 bar
W	Δp 20 bar (aqueous emulsions - water and glycol)

8 - Options

P01	MP Standard filters
Pxx	Customer request

DIFFERENTIAL INDICATORS (see page 12)

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