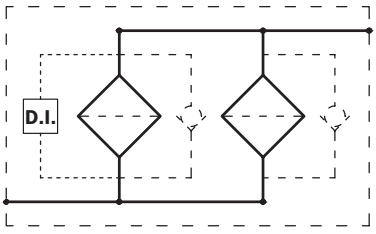
LMP 902 - 903

Filter element in according to DIN 24550

LMP 902 - 903
Mounting on manifold



Maximum pressure 25 bar

Flow rates to 3000 l/min

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 ±10%
- Other opening pressures on request.

Number of filter elements

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

Filter elements

- Filter element in compliance with DIN 24550 standard
  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

- LMP902 89.6
- LMP903 129.2

Volumes (dm^3)

Length

- LMP902 58
- LMP903 87

Connections

In-Line Inlet-Outlet

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

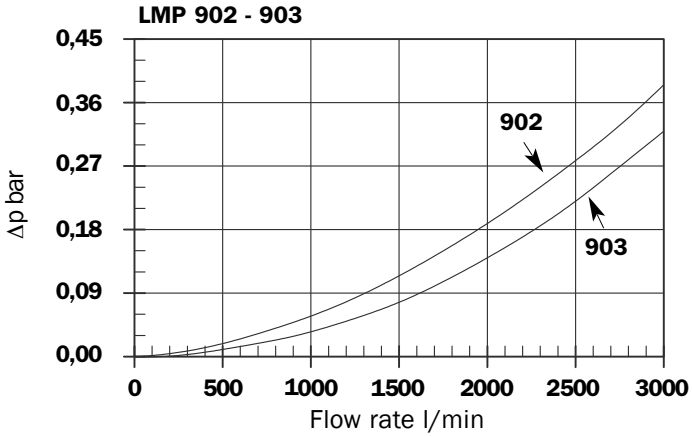
Filter element in stainless steel mesh

	Length	
Type	**902**	**903**
CU 900	52000	78000
	Values expressed in **cm^2**	

Filter housing Δp pressure drop

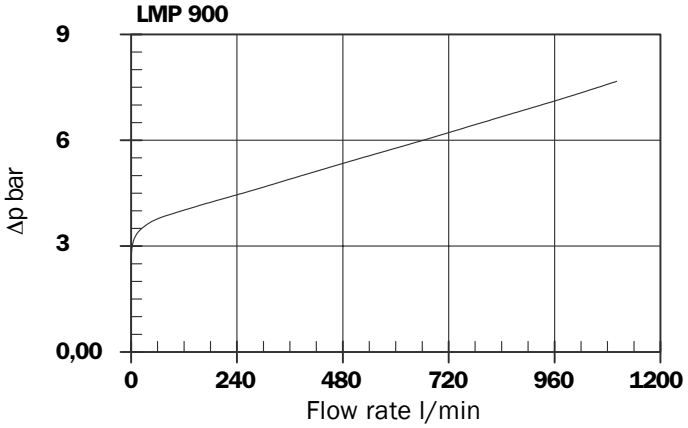
The curves are plotted utilising mineral oil with density of 0.86 kg/dm^3 to ISO 3968.

Δp varies proportionally with density.



Valves

Bypass valve pressure drop



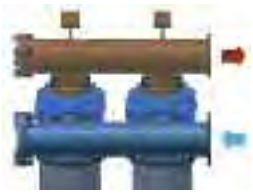
Manifolds

Position of manifolds IN - OUT connections

FA

FB

FC



FD

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.

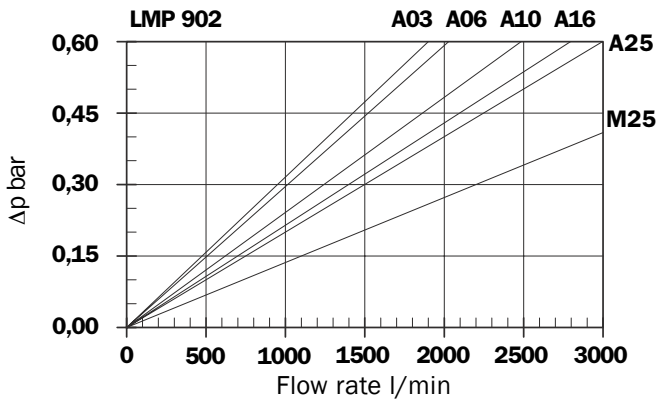
	Connections
Oil velocity	**4”**
2,5 m/sec.	**1200**
5 m/sec.	**2400**

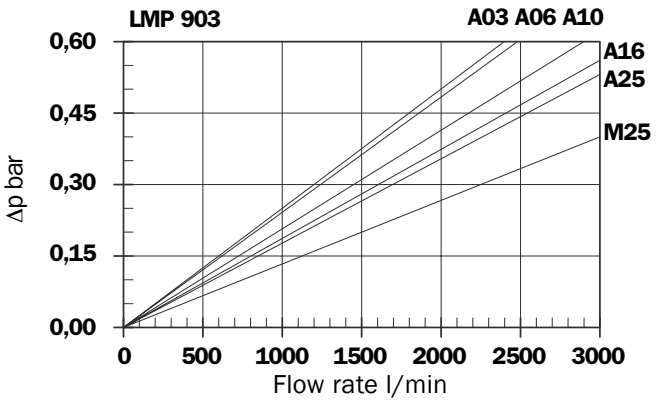
Flow rate l/min

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

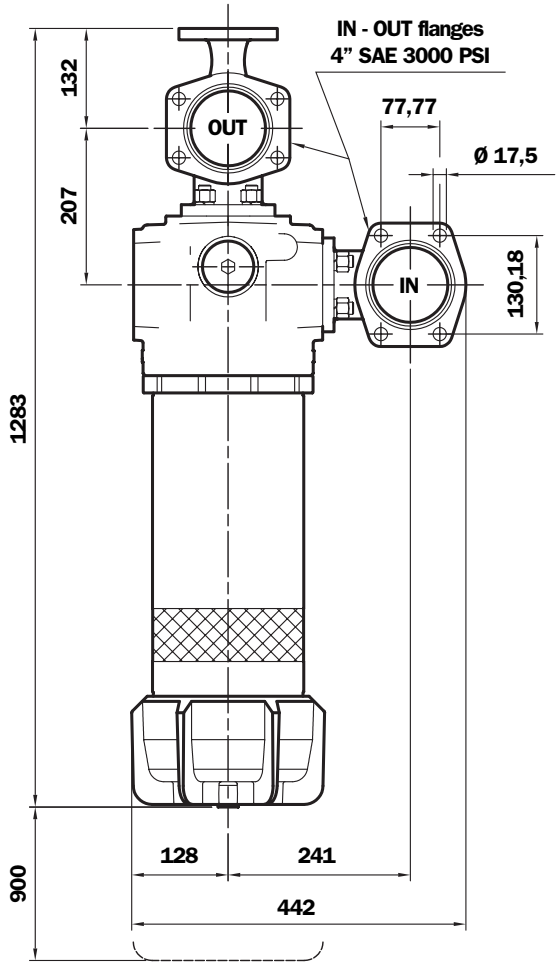
Recommended maximum flow rate

- 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”.

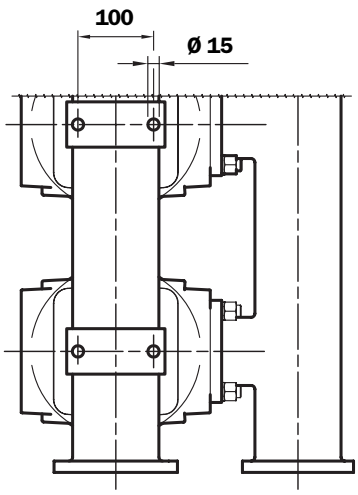


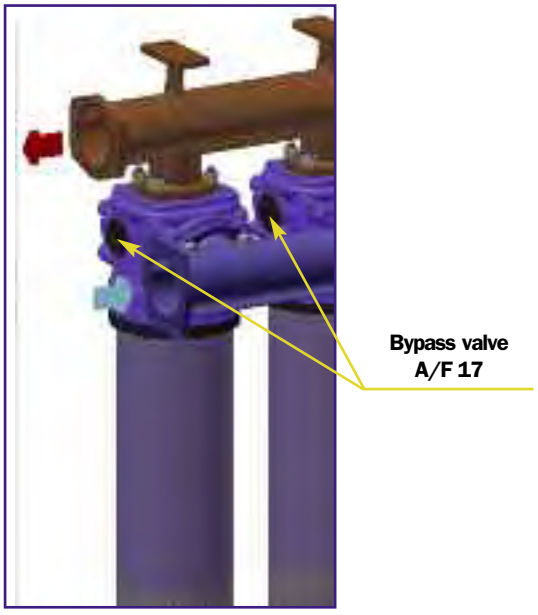


LMP 902 - 903

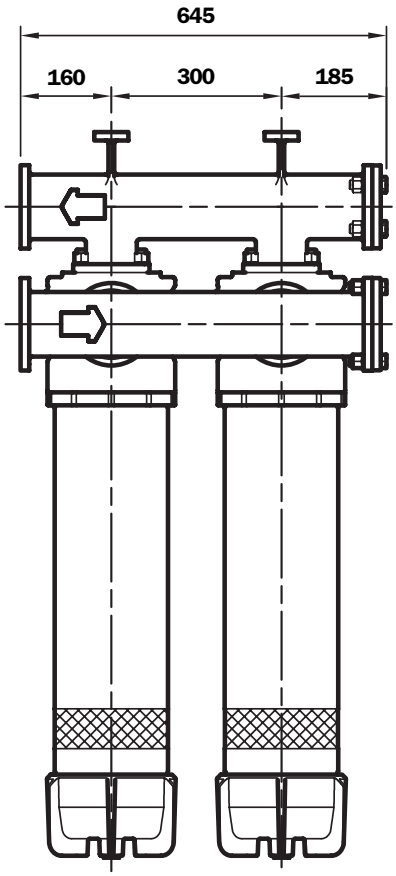

IN - OUT flanges
4" SAE 3000 PSI
OUT
IN
77,77
Ø 17,5
132
207
130,18
1283
900
128
241
442


Indicator
port
Plug T2 - A/F 30
Oil
drain plug
G 1/2" - A/F 10

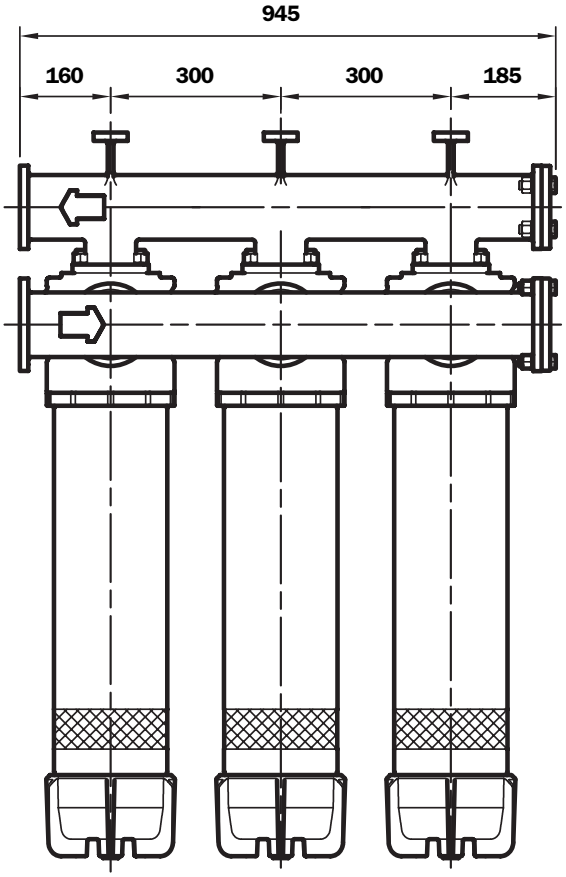

100
Ø 15

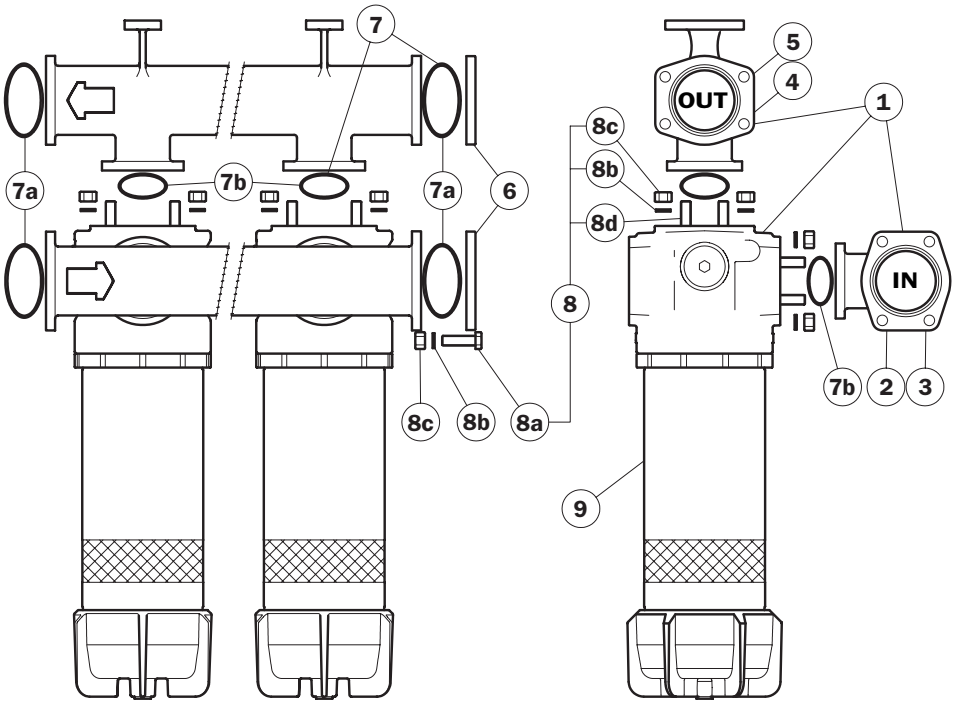

Bypass valve
A/F 17

LMP 902



LMP 903





Item	Description	Q.ty - LMP 90* *2	*3	FILTER Series LMP 902 - 903	
1	Filter assembly	1	1	See order table	
2	IN manifold 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	4" SAE 3000 psi plugged flange	2	2	01042020	
7	Manifolds seal kit	1	1	NBR 020503404	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	1	LMP902 - 02049051 LMP903 - 02049052	
8a	Hexagon bolt screws	8	8	UNI-EN 24017 M16 x 55-10.9	
8b	Spring washers	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 71	
-	Filter spare parts Item 9	2	3	See table spare parts LMP 9012F1.....P02 page 70	
-	Filter seals kit Item 9	2	3	See table spare parts LMP 9012F1.....P02 page 70	
-	Indicators	1	1	See order table	

Ordering information LMP 902 - 903

Filter assembly
LMP

	1	2	3	4	5	6	7	8
Example: LMP	**903**	**2**	**B**	**A**	**FB**	**A10**	**N**	**P01**

Filter element
CU900

	6	4	7	8
Example: CU900	**A10**	**A**	**N**	**P01** (6 cartridges required)

1 - Style

Filter	Filter element	
902	**900**	With 4 cartridges
903	**900**	With 6 cartridges

2 - Filter length

2

3 - Valve

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

4 - Filter seals

A	NBR
V	FPM
	On request

5 - Connections

Type	LMP 902 - 903
FA	**See page 74**
FB	
FC	
FD	

6 - Filter element

A01	Inorganic microfibre* 1 µ	Absolute filtration ßx (c) ≥ 1000
A03	Inorganic microfibre 3 µ	
A06	Inorganic microfibre 6 µ	
A10	Inorganic microfibre 10 µ	
A16	Inorganic microfibre 16 µ	
A25	Inorganic microfibre 25 µ	

* On request

M25	Wire mesh	Nominal Filtration
M60	Wire mesh	
M90	Wire mesh	

7 - Max filter element differential pressure

N	Δp 20 bar

8 - Option

P01	MP Filtri standard
Pxx	Customer request

DIFFERENTIAL INDICATORS (see page 120)