

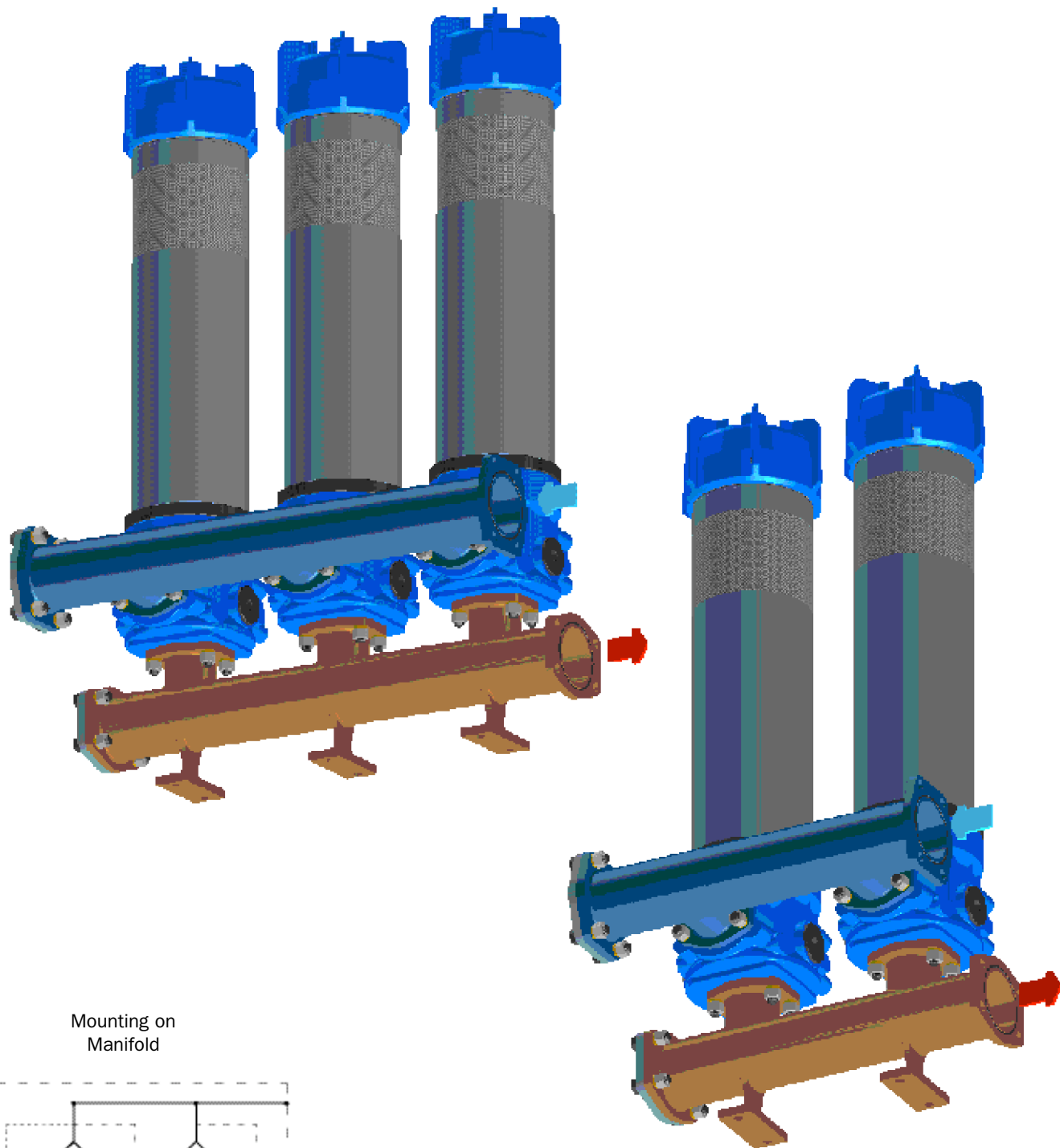
# LMP 952÷956



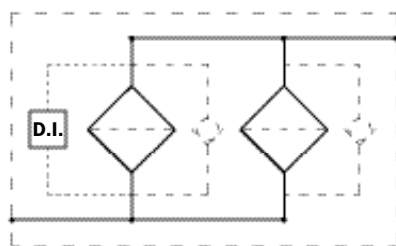
# LMP

**S**ERIES  
**952÷956**

*Working pressure*  
**25 bar**



Mounting on  
Manifold



# Technical data

## Filter housing (Materials)

- Head: Anodised Aluminium
- Housing: Anodised Aluminium
- Manifolds: Welded - phosphated steel
- Bypass valve: Anodised Aluminium

## 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.

## Number of filter elements

- LMP 952: 2 filter elements CU950-3
- LMP 953: 3 filter elements CU950-3
- LMP 954: 4 filter elements CU950-3
- LMP 955: 5 filter elements CU950-3
- LMP 956: 6 filter elements CU950-3

## $\Delta p$ filter elements

- 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

- LMP952 96
- LMP953 138
- LMP954 192
- LMP955 234
- LMP956 277

## Volumes (dm<sup>3</sup>)

### Length

- LMP952 66
- LMP953 99
- LMP954 132
- LMP955 165
- LMP956 198

## 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  
LMP

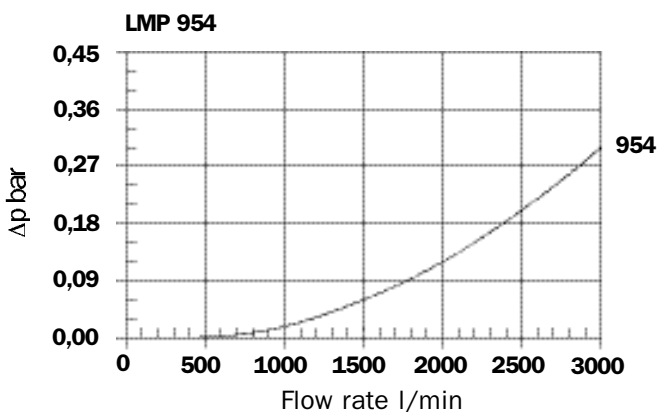
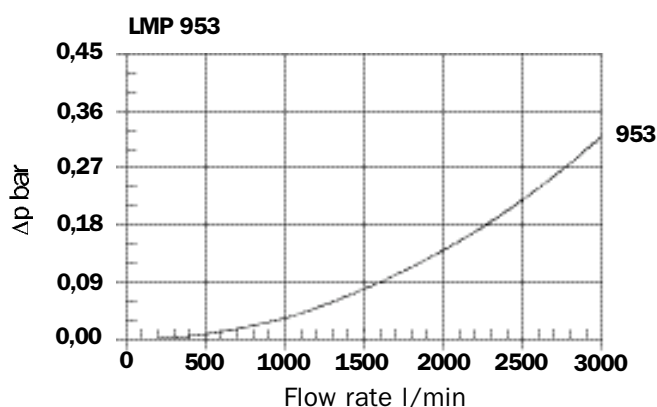
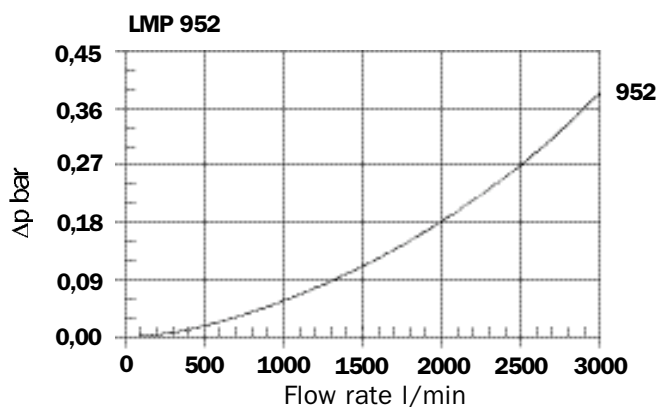
Type	952	953	954	955	956
CU950 - 3	50200	75300	100400	125500	150600

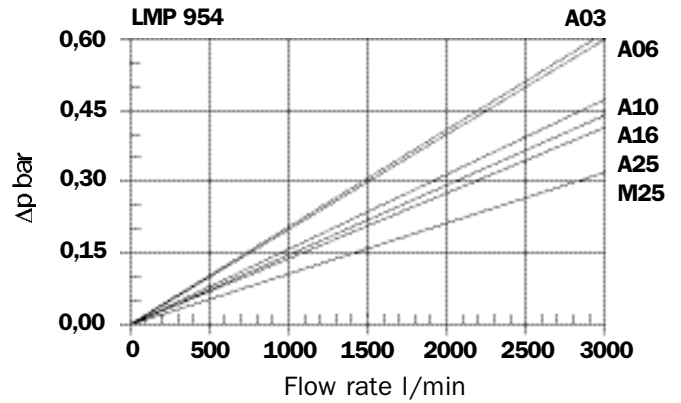
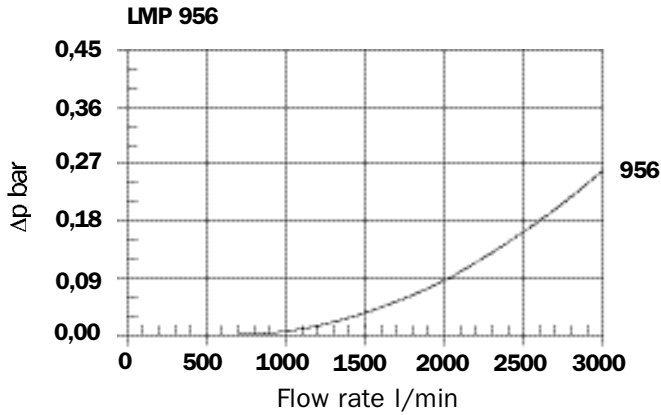
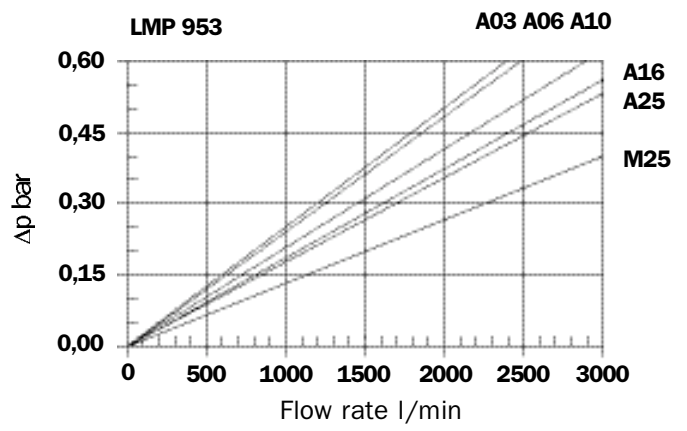
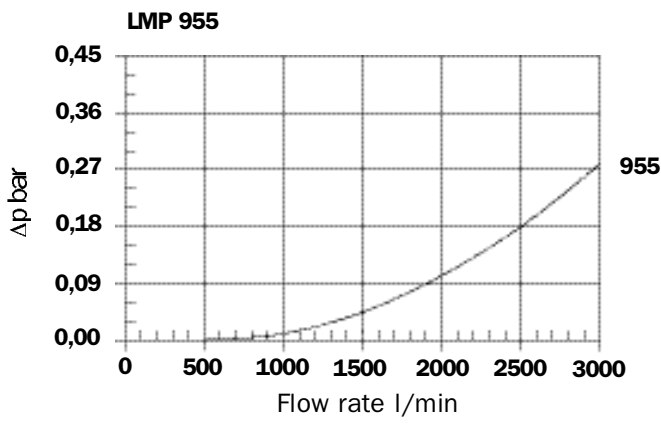
Values expressed in cm<sup>2</sup>

## Filter housing $\Delta p$ pressure drop

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

$\Delta p$  varies proportionally with density.

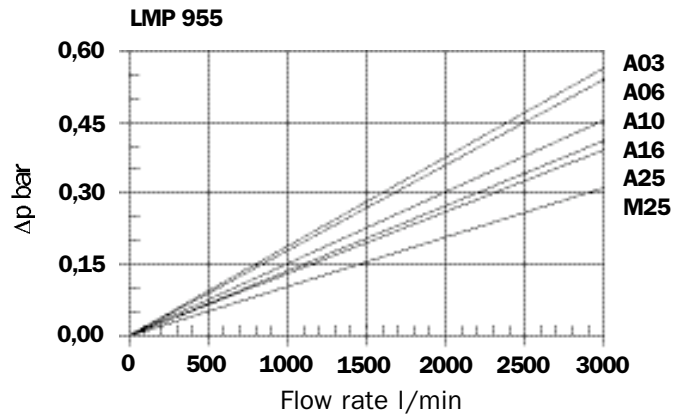
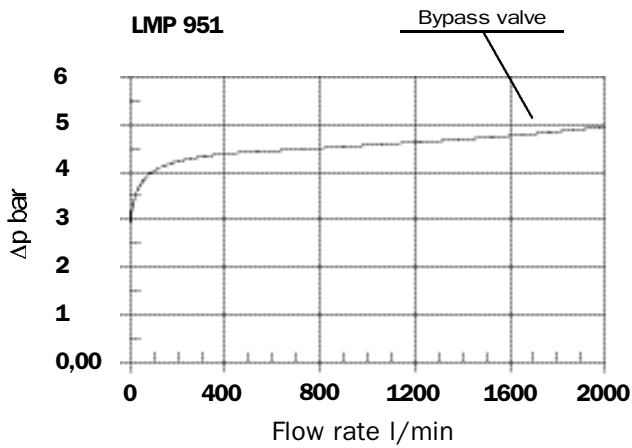




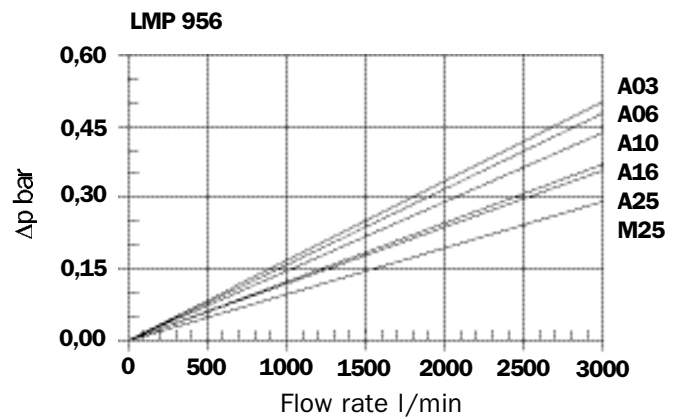
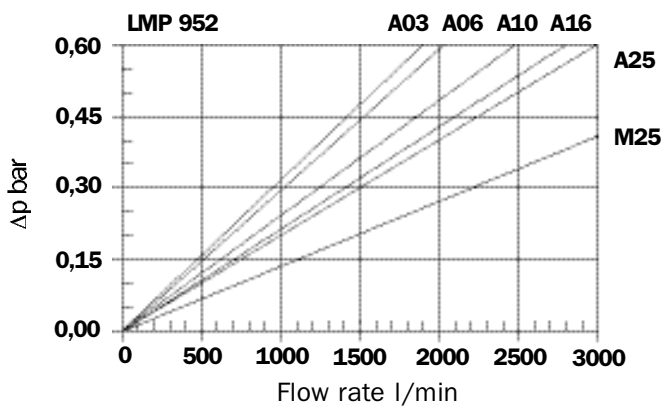
**Valves**

**Bypass valve pressure drop**

For individual filter

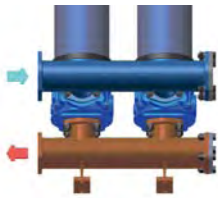


**Pressure drop of filter complete with cartridge,  
oil viscosity 30 mm<sup>2</sup>/s (cSt)**

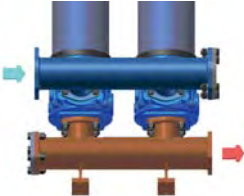


# Manifolds

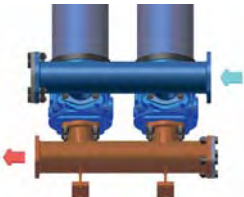
Position of manifolds IN - OUT connections



**FA**



**FB**

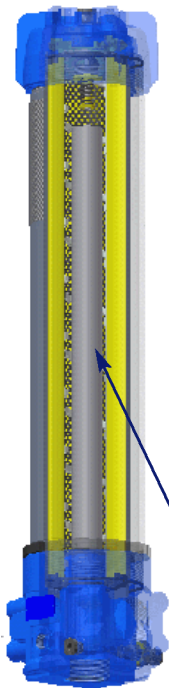


**FC**



**FD**

## Option P02 for LMP 952/956



Option P02 "Internal tube for reduced flow rate" is recommended for flow rate values below:

- LMP 952 - 300 l/min
- LMP 953 - 450 l/min
- LMP 954 - 600 l/min
- LMP 955 - 750 l/min
- LMP 956 - 900 l/min

The use of option P02 makes it easier to fill the housing with the operating fluid.

**P02 "Internal tube for reduced flow rates"**

## Recommended maximum flow rate

Recommended maximum flow rate for filters installed on lubrication or return lines or in-line filters is defined by the maximum oil velocity in the connections. Recommended maximum flow rate for Off-Line filters is defined by the filter element pressuredrop.

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

Oil velocity	Connection	
	4"	
2,5 m/sec.	1200	Flow rate l/min.
5 m/sec.	2400	

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

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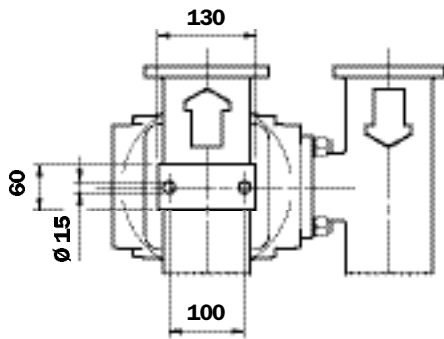
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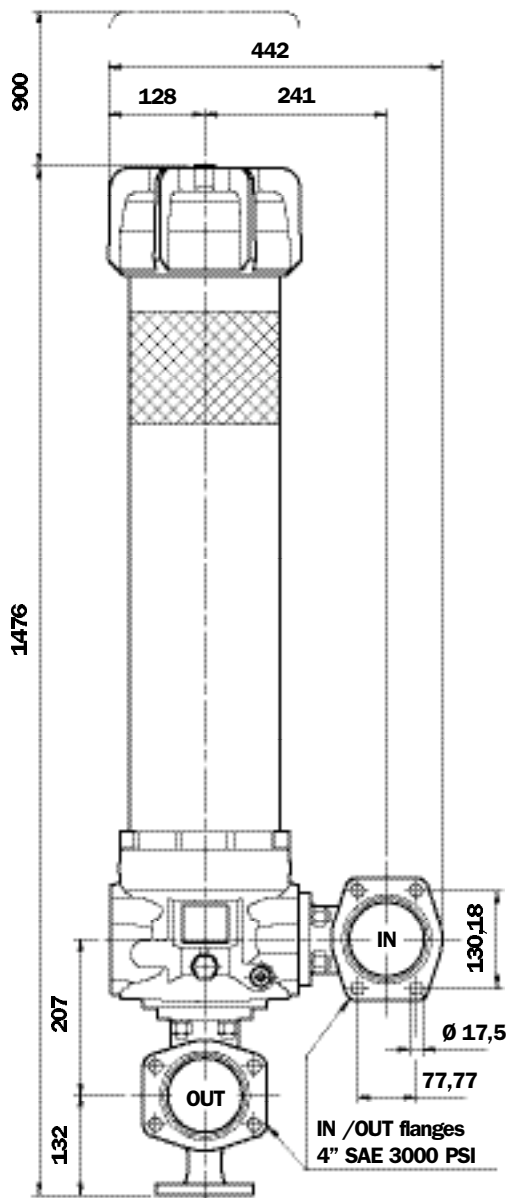
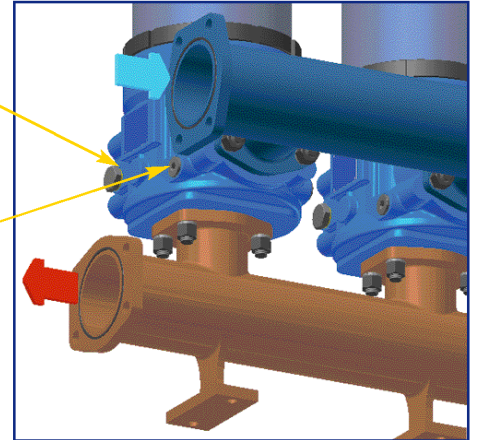
# Dimensions

## LMP 95x

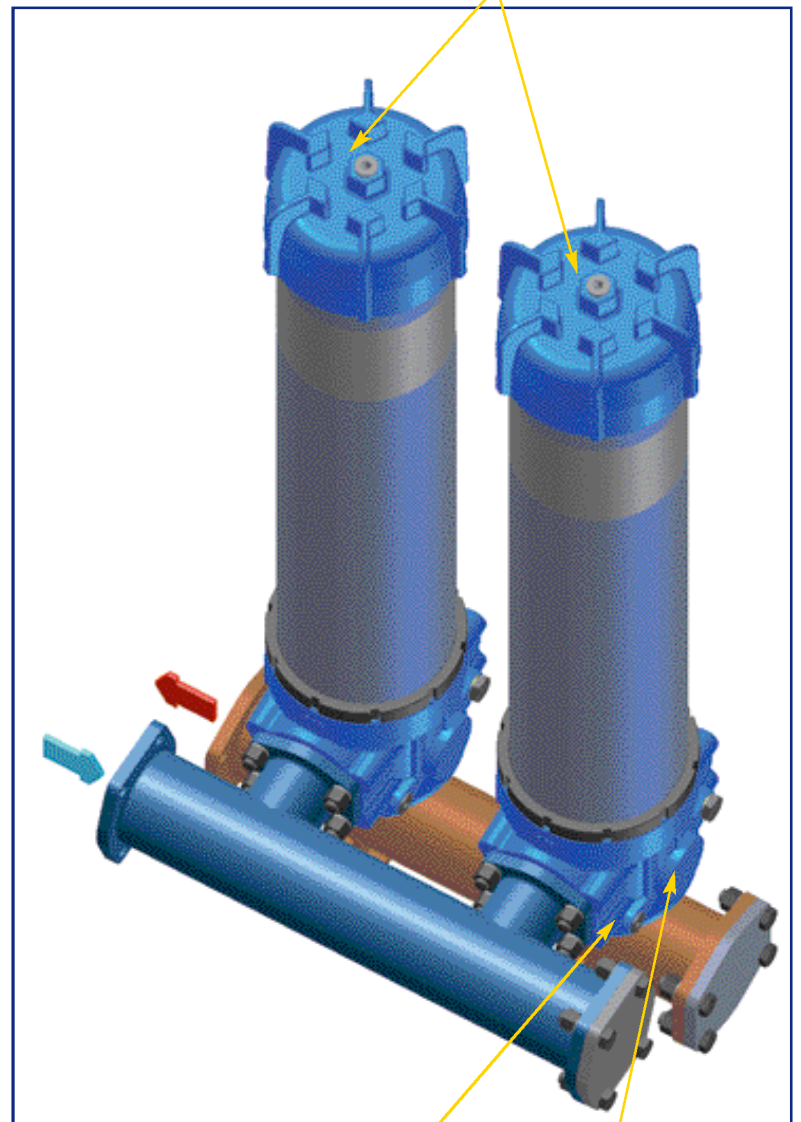


Connection indicator  
Plug T2 - Ch. 30

Oil  
drain plug  
G 1/2" Ch. 10



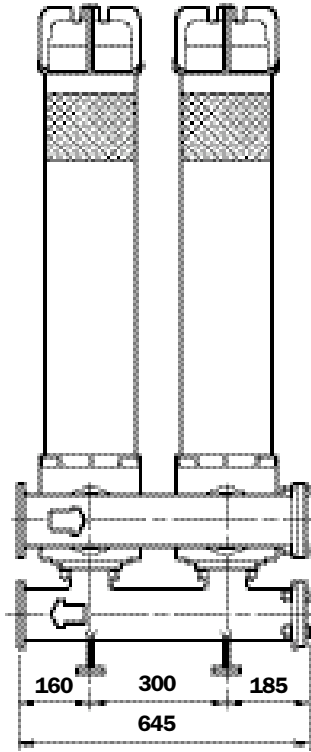
Breather plug  
G 1/2" Ch. 10



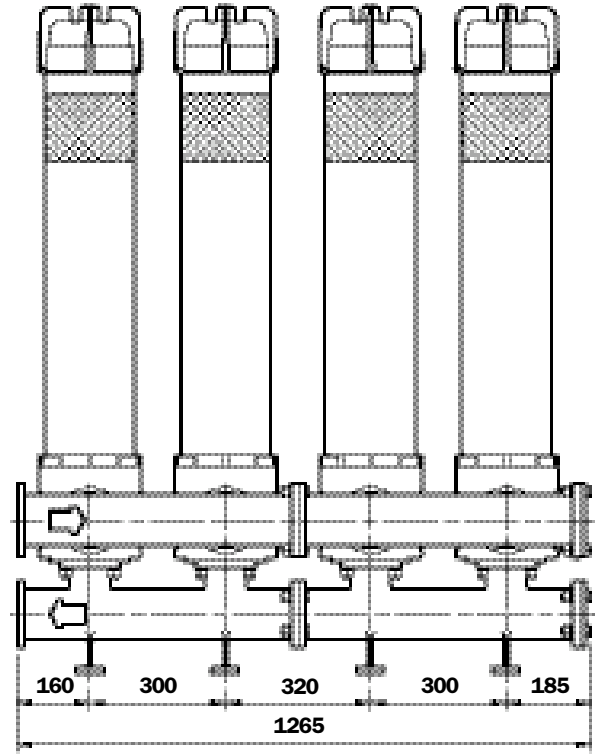
Oil  
drain plug  
G 1/2" Ch. 10

Connection  
indicator  
Plug T2 - Ch. 30

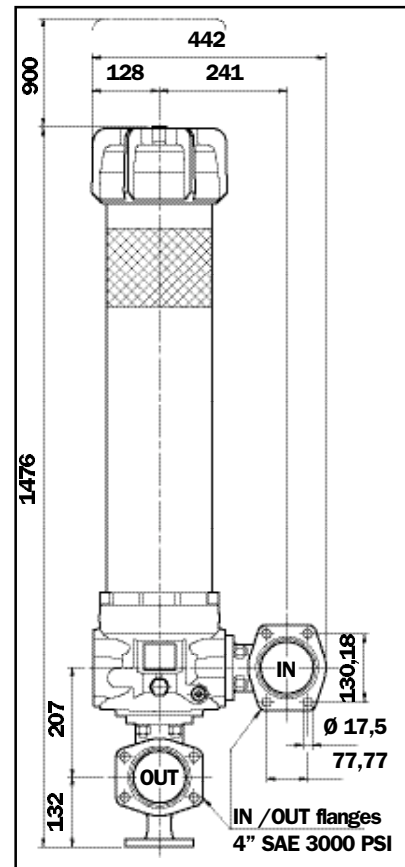
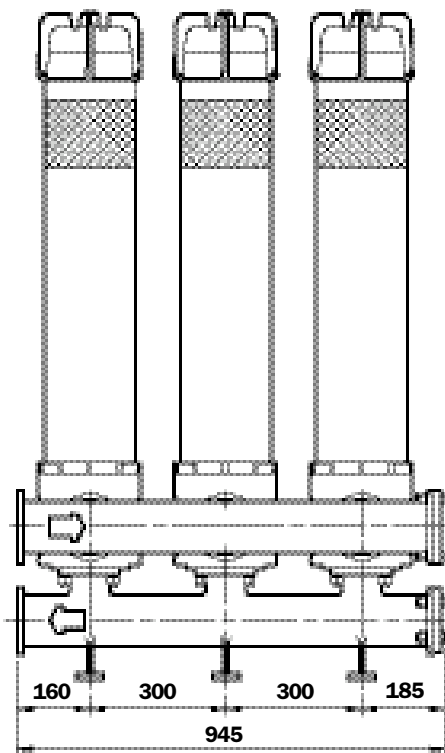
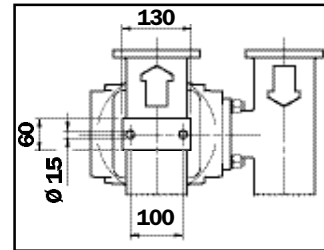
# LMP 952



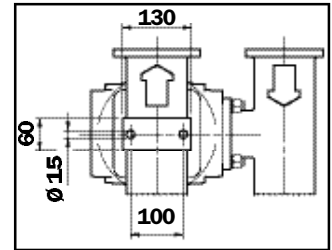
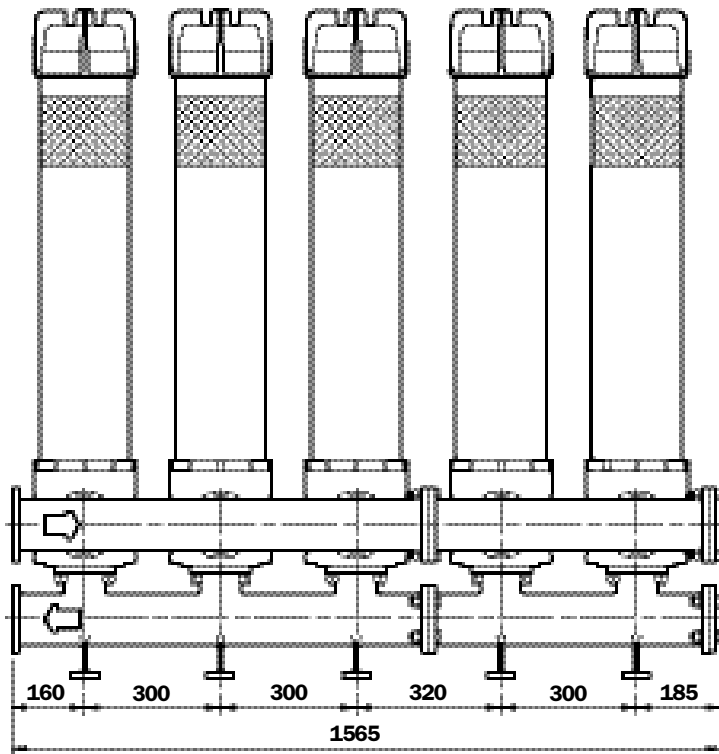
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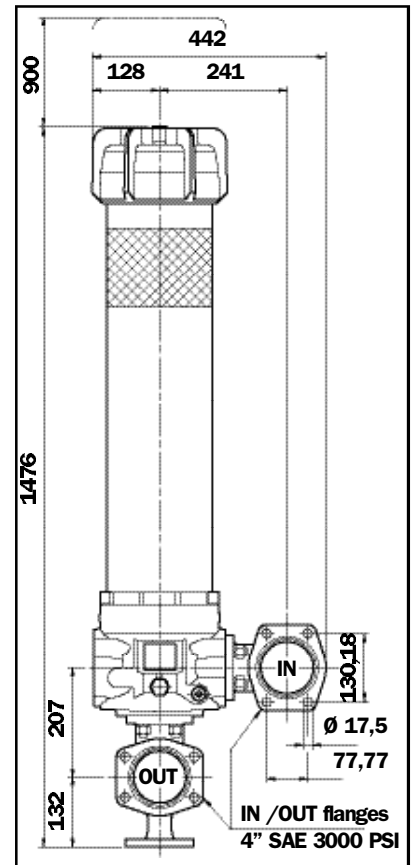
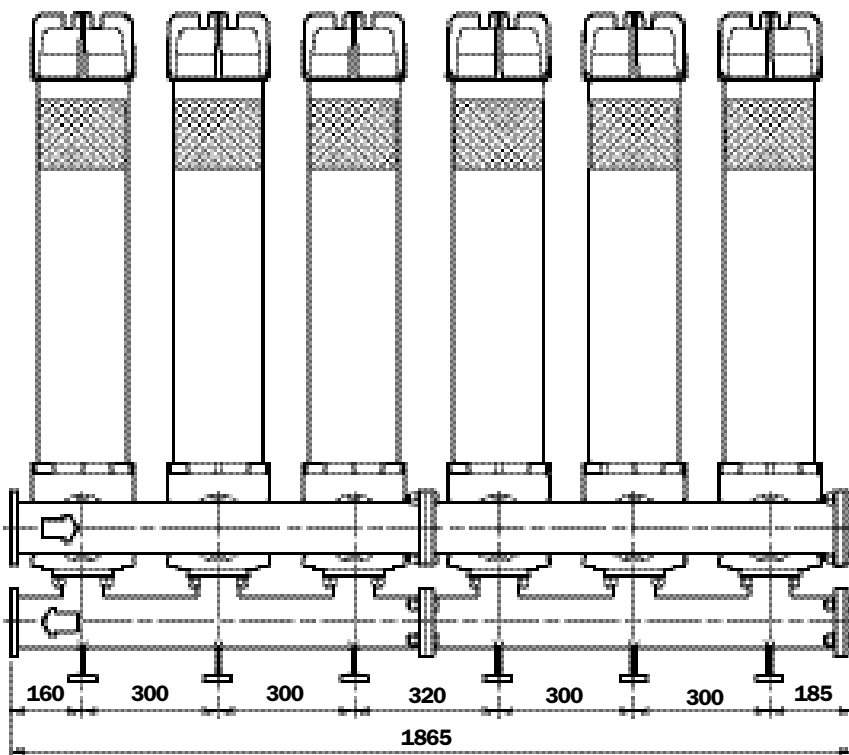
# LMP 953



# LMP 955



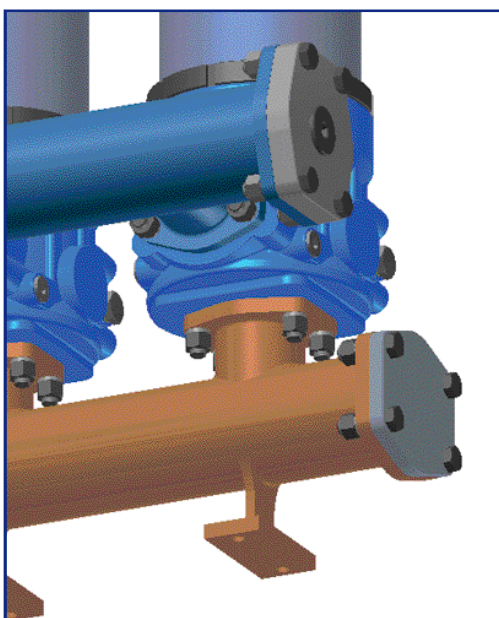
# LMP 956





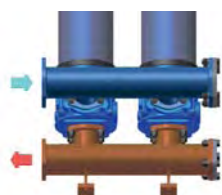
## Option

### Flange with oil drain plug for rapid discharge

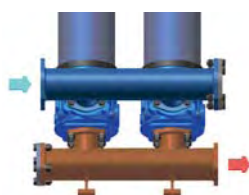


## Manifolds

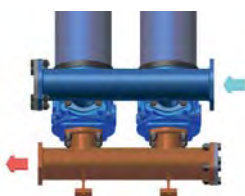
Position and designation of manifolds IN - OUT connections



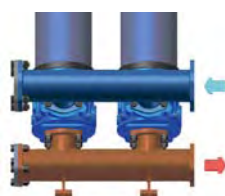
**GA/EA**



**GB/EB**



**GC/EC**

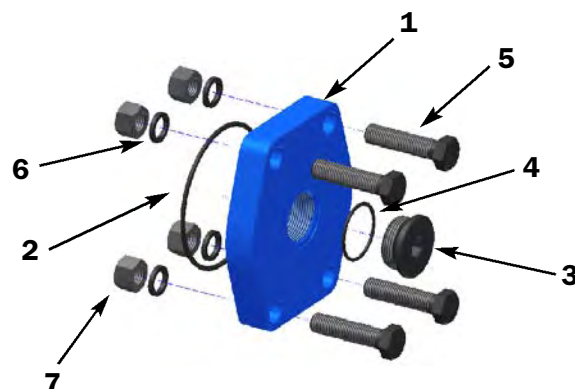


**GD/ED**

## Order code

**CMV4**

**CUV4**



### CMV4

Bill of materials:

- 1 4" SAE flange
- 2 O-R 4437 (FPM) for flange
- 3 Plug G 1-1/4"
- 4 O-R 3168 for plug (FPM)
- 5 No 4 Hex screws UNI-EN 24017 M16 x 65-10.9
- 6 No. 4 Circlips UNI 1751-B 16
- 7 No. 4 Nuts UNI 5587 - M16

### CUV4

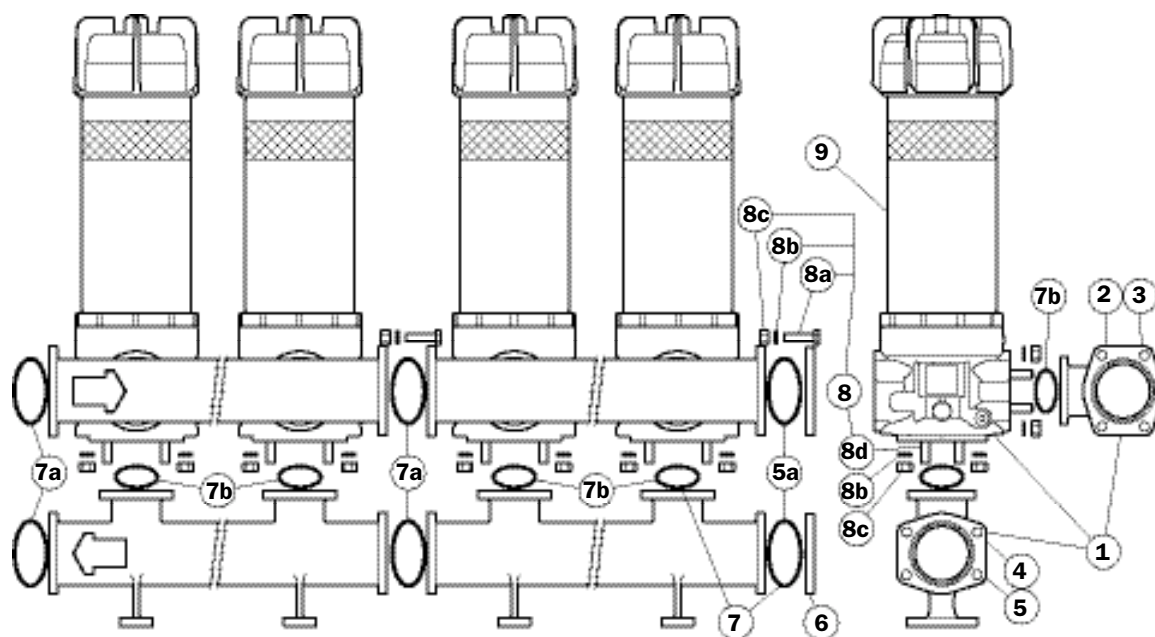
Bill of materials:

- 1 4" SAE flange
- 2 O-R 4437 (FPM) for flange
- 3 Plug SAE 20
- 4 1147 O-R for plug (FPM)
- 5 No. 4 Hex screws 5/8" UNC x 2" 1/2
- 6 No. 4 Circlips UNI 1751-B 16
- 7 No. 4 Nuts 5/8" UNC

## Oil drain plug

Code	CMV4	CUV4
	A	A
Thread	G 1 1/4"	SAE 20
	GA	EA
	GB	EB
	GC	EC
	GD	ED

# LMP 952÷956 spare parts



Pos.	Description	Q.té / LMP 95*					FILTER Series LMP 952/953/954/955/956				
		*2	*3	*4	*5	*6					
1	Filter assembly	1					See order table				
2	IN manifold with 2 filter connections	1	-	2	1	-	01039270				
3	IN manifold with 3 filter connections	-	1	-	1	2	01039272				
4	OUT manifold with 2 filter connections	1	-	2	1	-	01039271				
5	OUT manifold with 3 filter connections	-	1	-	1	2	01039273				
6	3000 psi SAE 4" flange	2					01042020				
7	Manifolds seal kit	1					LMP 952 - 953 NBR 02050404 FPM 02050405		LMP 954 - 955 - 956 NBR 02050406 FPM 02050407		
7a	IN - OUT O-Ring	4	4	6	6	6	O-R 4437 Ø 110,7 x 3,53				
7b	Manifolds/filter O-Ring	4	6	8	10	12	O-R 4337 Ø 85,32 x 3,53				
8	Threaded fasteners kit for manifolds	1					*2F... 02049051	*3F... 02049052	*4F... 02049053	*5F... 02049054	*6F... 02049055
8a	Screws for IN-OUT flanges	8	8	16	16	16	UNI-EN 24017 M16 x 55-10.9				
8b	Circlips	24	32	48	56	64	UNI 1751 - B16				
8c	Nuts	24	32	48	56	64	UNI-EN 24032 M16 10.9				
8d	Studs	16	24	32	40	48	UNI 5911 - M16 x 40 - 10.9				
9	Filter	2	3	4	5	6	See order table LMP 9513F1.....PO* page 75				
-	Filter spare parts pos. 9	2	3	4	5	6	See table spare parts LMP 9513F1.....PO* page 73				
-	Filter seals kit pos. 9	2	3	4	5	6	See table spare parts LMP 9513F1.....PO* page 73		NBR 02050367 FPM 02050368		
-	Indicators	1					See order table				

# LMP952÷956 ordering information

## Filter assembly

### LMP

Example: LMP

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8 a</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>953</b>	<b>3</b>	<b>B</b>	<b>A</b>	<b>FB</b>	<b>A10</b>	<b>N</b>	<b>P01</b>

## Filter Element

### CU 950

Example: CU950

<b>2</b>	<b>6</b>	<b>4</b>	<b>7</b>	<b>8b</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3</b>	<b>A10</b>	<b>A</b>	<b>N</b>	<b>P01</b> (3 cartridges required)

## 1 - Sizes

<b>952</b>	2 filter elements CU950-3
<b>953</b>	3 filter elements CU950-3
<b>954</b>	4 filter elements CU950-3
<b>955</b>	5 filter elements CU950-3
<b>956</b>	6 filter elements CU950-3

## 6 - Filter element

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

## 2 - Filter length

**3**

## 3 - Valves

<b>S</b>	Without by-pass
<b>B</b>	With by-pass

## 7 - Filter elements series

<b>N</b>	Δp 20 bar
<b>W</b>	Δp 20 bar (aqueous emulsions - water and glycol)

## 4 - Seals

<b>A</b>	NBR
<b>V</b>	FPM

## 5 - Connections

**Standard**      **Rapid discharge oil drain**

<b>FA</b>	<b>GA</b>	<b>EA</b>
<b>FB</b>	<b>GB</b>	<b>EB</b>
<b>FC</b>	<b>GC</b>	<b>EC</b>
<b>FD</b>	<b>GD</b>	<b>ED</b>

See page 80

See page 85

## 8 - Options

### a - Filters

<b>P01</b>	MP Standard filters
<b>P02</b>	With internal tube for reduced flow rate
<b>Pxx</b>	Customer request

### b - Filter elements

<b>P01</b>	MP Standard filters
<b>Pxx</b>	Customer request

DIFFERENTIAL INDICATORS (see page 12)

## Option:

### Flange with rapid discharge oil drain plug

See page 85

**CMV4** Plug G 1 1/4"

**CUV4** Plug SAE 20

**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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