



Filtro MP  
Serie LMP  
952-953-954



 HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL

# LMP 952-953-954 series

Maximum working pressure up to 2.5 MPa (25 bar) - Flow rate up to 4500 l/min



## Description

## Technical data

### Low & Medium Pressure filters

**Maximum working pressure up to 2.5 MPa (25 bar)**  
**Flow rate up to 4500 l/min**

LMP952, LMP953 and LMP954 are ranges of low pressure filter with large filtration surface mainly suitable for lubrication, off-line filtration of the reservoirs and filtration equipment.

Multiple LMP950 filters are connected to a manifold to reduce the pressure drop caused by the filter media and to increase the life time of the filter element.

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

#### Available features:

- 4" flanged connections, for a maximum flow rate of 4500 l/min
- Base-mounting design, for ease of the replacement of the filter element
- 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
- Vent ports, to avoid air trapped into the filter going into the system
- Drain ports, to remove the fluid from the housing prior the maintenance work
- Visual, electrical and electronic differential clogging indicators

#### Common applications:

- Off-line filtration of reservoirs
- Filtration systems

### Filter housing materials

- Head: Anodized Aluminium
- Housing: Anodized Aluminium
- Manifolds: Welded - Phosphatized Steel
- Bypass valve: Anodized Aluminium

### Pressure

- Test pressure: 3.5 MPa (35 bar)
- Min. Burst pressure: 7.5 MPa (75 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 2.5 MPa (25 bar)

### Bypass valve

- Opening pressure 0.35 MPa (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

### Filter element features

Filter	Filter element		
LMP 951-953-954	CU		
<b><math>\Delta p</math> Element type</b>			
Element media	Construction	$\Delta p$ Series	$\Delta p$
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 <math>\Delta p</math> series availability based on filter features.</i>			
<b>Flow direction through the filter element:</b>			
From OUT to IN			

### Seals

- Standard NBR series A
- Optional FPM series V

### Temperature

From -25 °C to +110 °C

### Connections

LMP 952-953-954:  
In-line Inlet/Outlet

### Note

LMP 952 - 953 - 954 filters are provided for vertical mounting

## Weights [kg] and volumes [dm<sup>3</sup>]

Filter series	Weights [kg]		Volumes [dm <sup>3</sup> ]	
	Length	3	Length	3
<b>LMP 952</b>		96		66
<b>LMP 953</b>		138		99
<b>LMP 954</b>		192		132

Flow rates [l/min]

Filter series	Length	Filter element design - N Series					
		A03	A06	A10	A16	A25	M25 M60 M90
<b>LMP 952</b>	<b>3</b>	2172	2294	2766	3106	3256	3998
<b>LMP 953</b>	<b>3</b>	2842	2964	3403	3696	3820	4395
<b>LMP 954</b>	<b>3</b>	3259	3372	3770	4026	4133	4618

**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 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

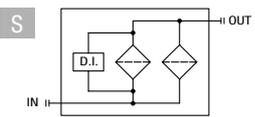
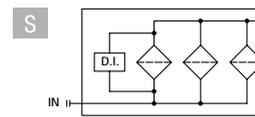
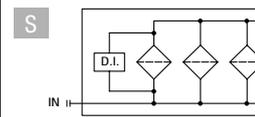
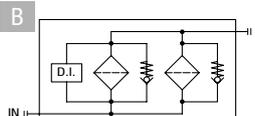
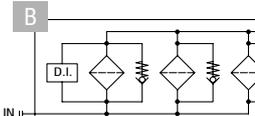
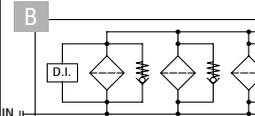
For different pressure drop or fluid viscosity we recommend to use our selection software available on [www.mpfiltri.com](http://www.mpfiltri.com).

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

Filter series	Execution S - Execution B	Execution S - Execution B	Execution S - Execution B
<b>LMP 952</b>	•	-	-
<b>LMP 953</b>	-	•	-
<b>LMP 954</b>	-	-	•

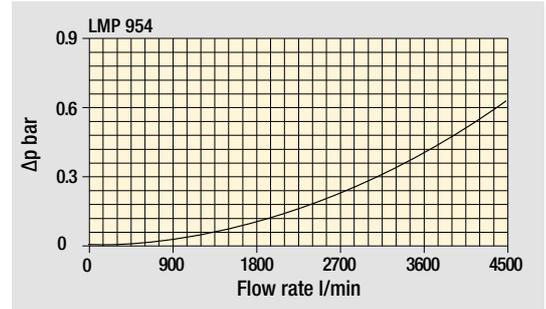
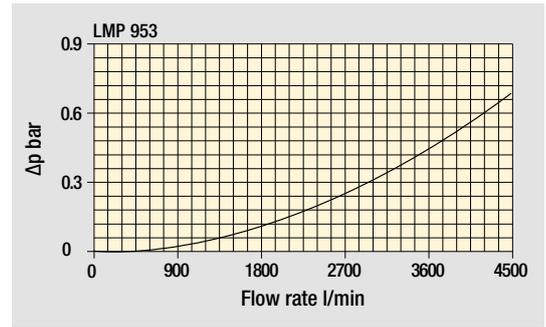
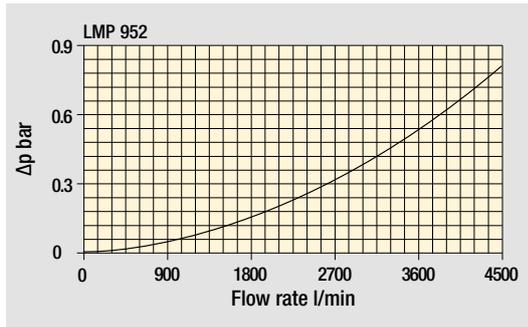
  

S		S		S	
B		B		B	

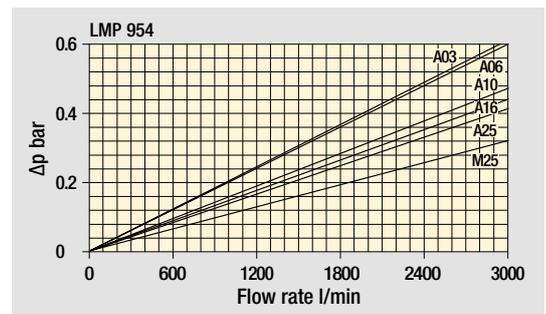
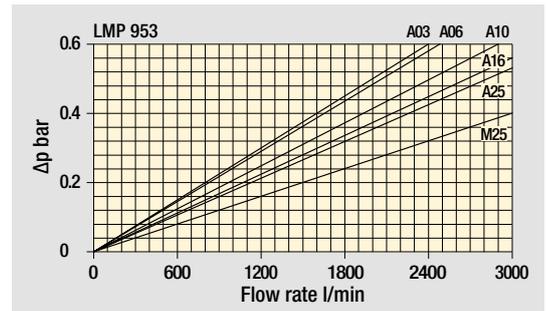
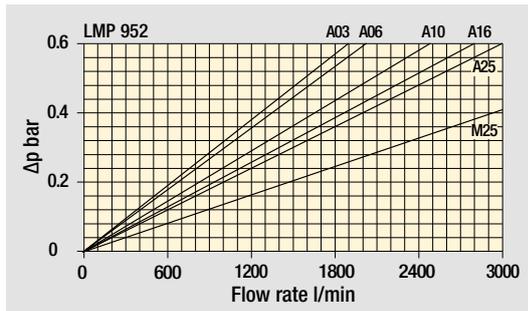
# LMP 952-953-954 GENERAL INFORMATION

## Pressure drop

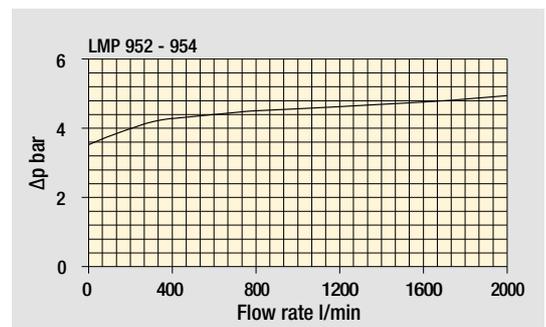
### Filter housings $\Delta p$ pressure drop



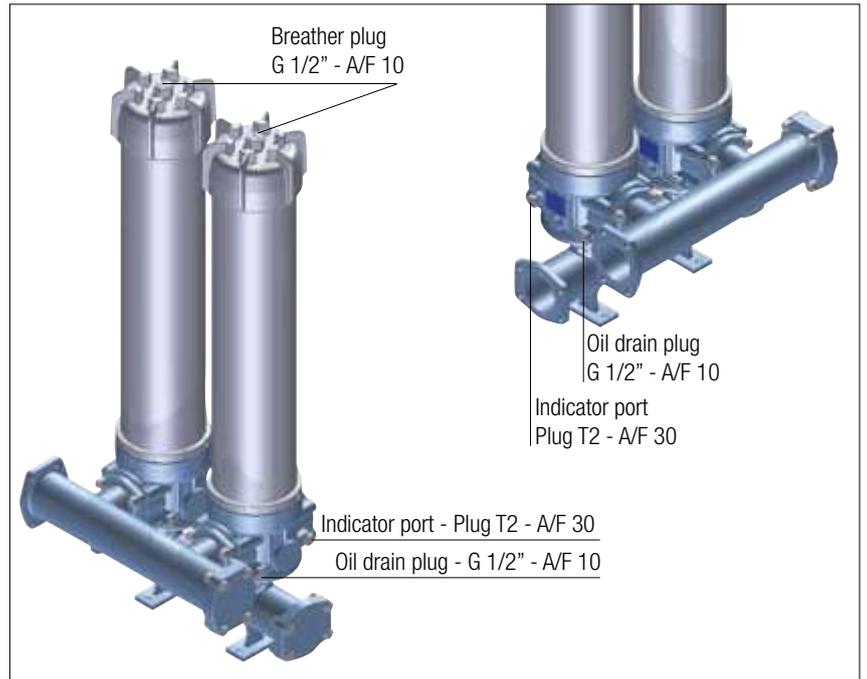
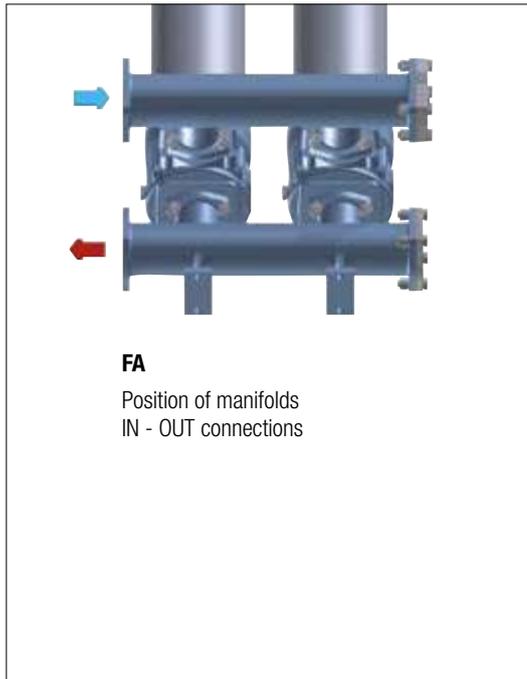
### Pressure drop of filter complete with cartridge, oil viscosity 30 mm<sup>2</sup>/s (cSt)



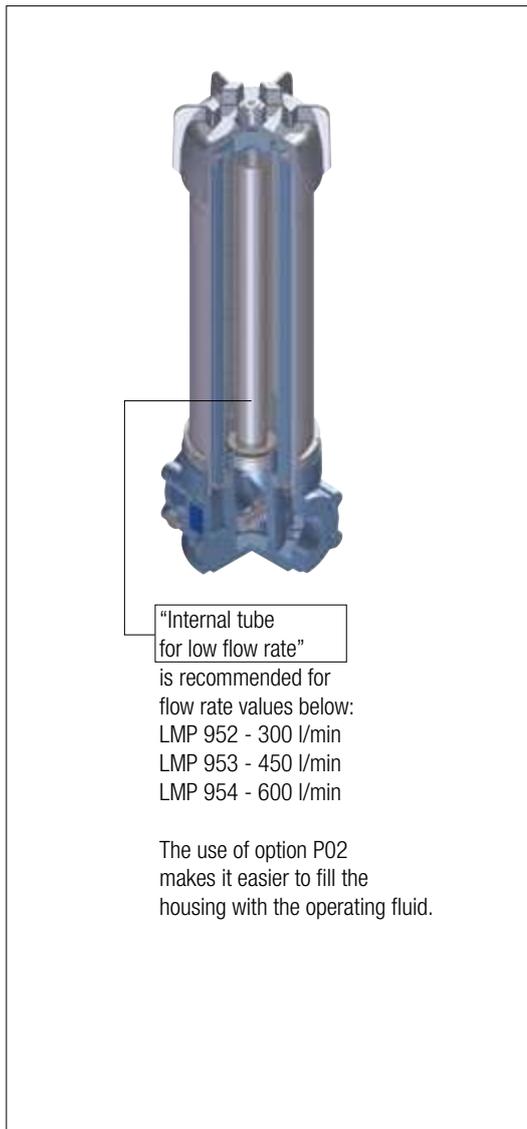
### Bypass valve pressure drop



The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

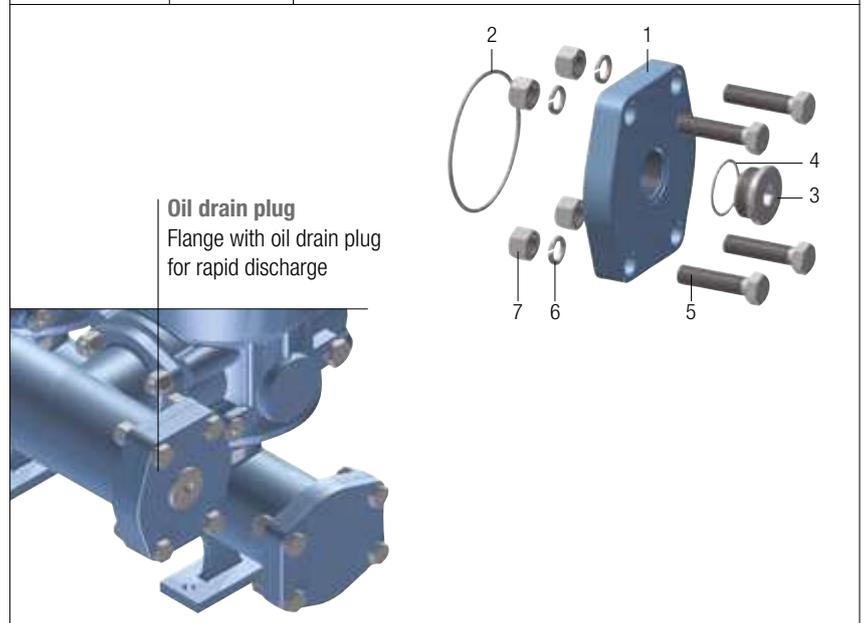


Execution P02



CMV4 & CUV4 Flange options

Code	Thread	Materials
CMV4	G 1 1/4"	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 bolt screws UNI-EN 24017 M16 x 65-10.9 6 - No. 4 Spring washers UNI 1751-B 16 7 - No. 4 Nuts UNI 5587 - M16
CUV4	SAE 20	1 - 4" SAE flange 2 - O-R 4437 (FPM) for flange 3 - Plug SAE 20 1 5/8" - 12 UN 4 - 1147 O-R for plug (FPM) 5 - No. 4 Hex bolt screws 5/8" UNC x 2 1/2" 6 - No. 4 Spring washers UNI 1751-B 16 7 - No. 4 Nuts 5/8" UNC



# LMP 952-953-954

Designation & Ordering code

## COMPLETE FILTER

Series and size Configuration example: **LMP952** **3** **B** **A** **FA** **A10** **N** **P01**  
**LMP952** | **LMP953** | **LMP954**

Length **3**

Bypass valve **S** Without bypass **B** With bypass 3.5 bar

Seals and treatments **A** NBR  
**V** FPM

Connections **FA** 4" SAE 3000 psi

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  
**A25** Inorganic microfiber 25 µm  
**WA025** Water absorber inorganic microfiber 25 µm

Element Δp **N** 20 bar

Execution **P01** MP Filtri standard  
**P02** With internal tube for low flow rate  
**Pxx** Customized

## FILTER ELEMENT

Element series and size Configuration example: **CU950** **3** **A10** **A** **N** **P01**  
**CU950**

Element length **3**

Filter series and size  
**LMP952** Nr. 2 filter elements  
**LMP953** Nr. 3 filter elements  
**LMP954** Nr. 4 filter elements

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  
**A25** Inorganic microfiber 25 µm  
**WA025** Water absorber inorganic microfiber 25 µm

Seals **A** NBR  
**V** FPM

Element Δp **N** 20 bar

Execution **P01** MP Filtri standard  
**Pxx** Customized

## CLOGGING INDICATORS

See page 720

<b>DEA</b> Electrical differential pressure indicator	<b>DLE</b> Electrical / visual differential pressure indicator
<b>DEM</b> Electrical differential pressure indicator	<b>DTA</b> Electronic differential pressure indicator
<b>DEU</b> Electrical differential pressure indicator	<b>DVA</b> Visual differential pressure indicator
<b>DLA</b> Electrical / visual differential pressure indicator	<b>DVM</b> Visual differential pressure indicator

## PLUGS

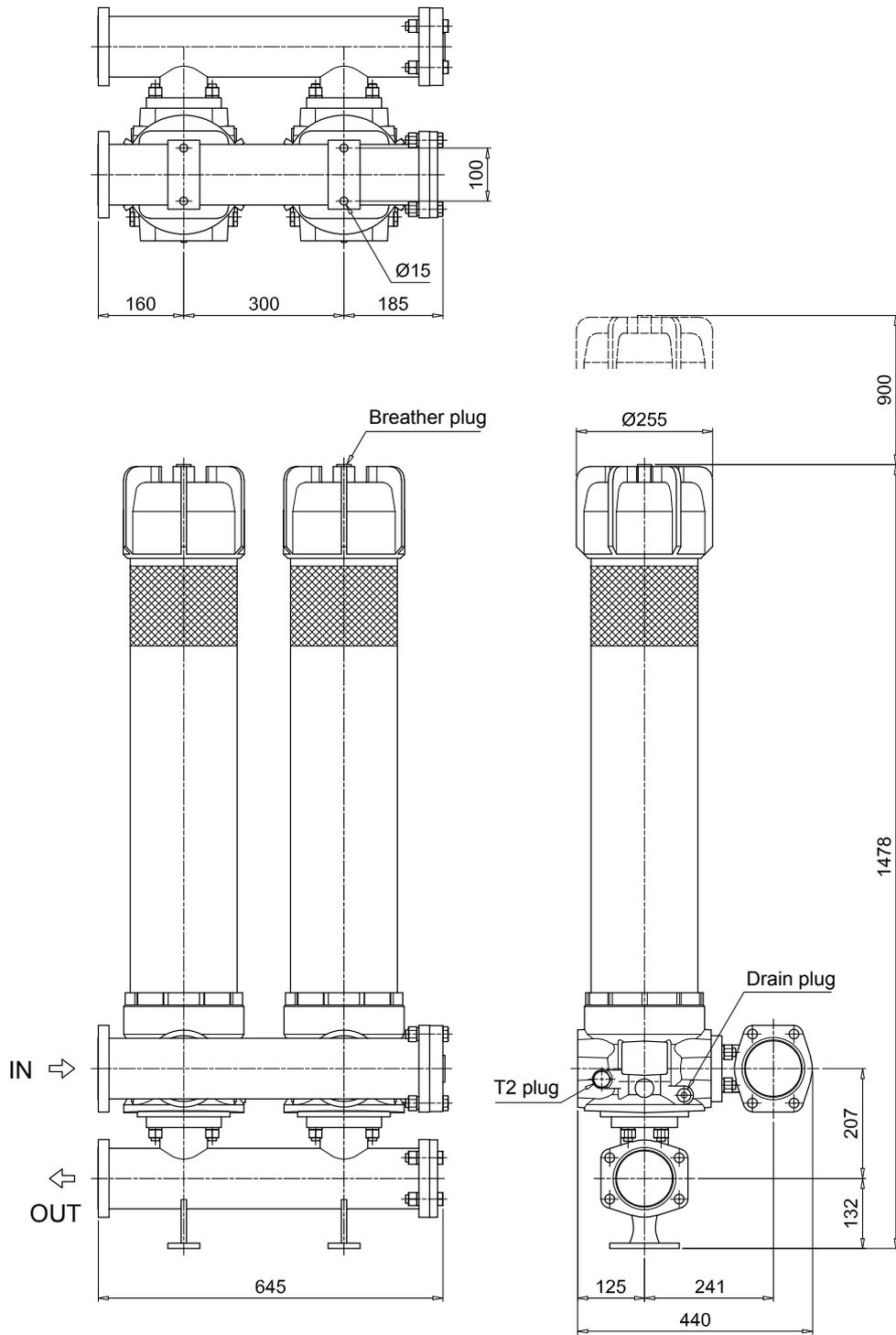
See page 741

**T2** Plug

# LMP 952-953-954

Dimensions

LMP952

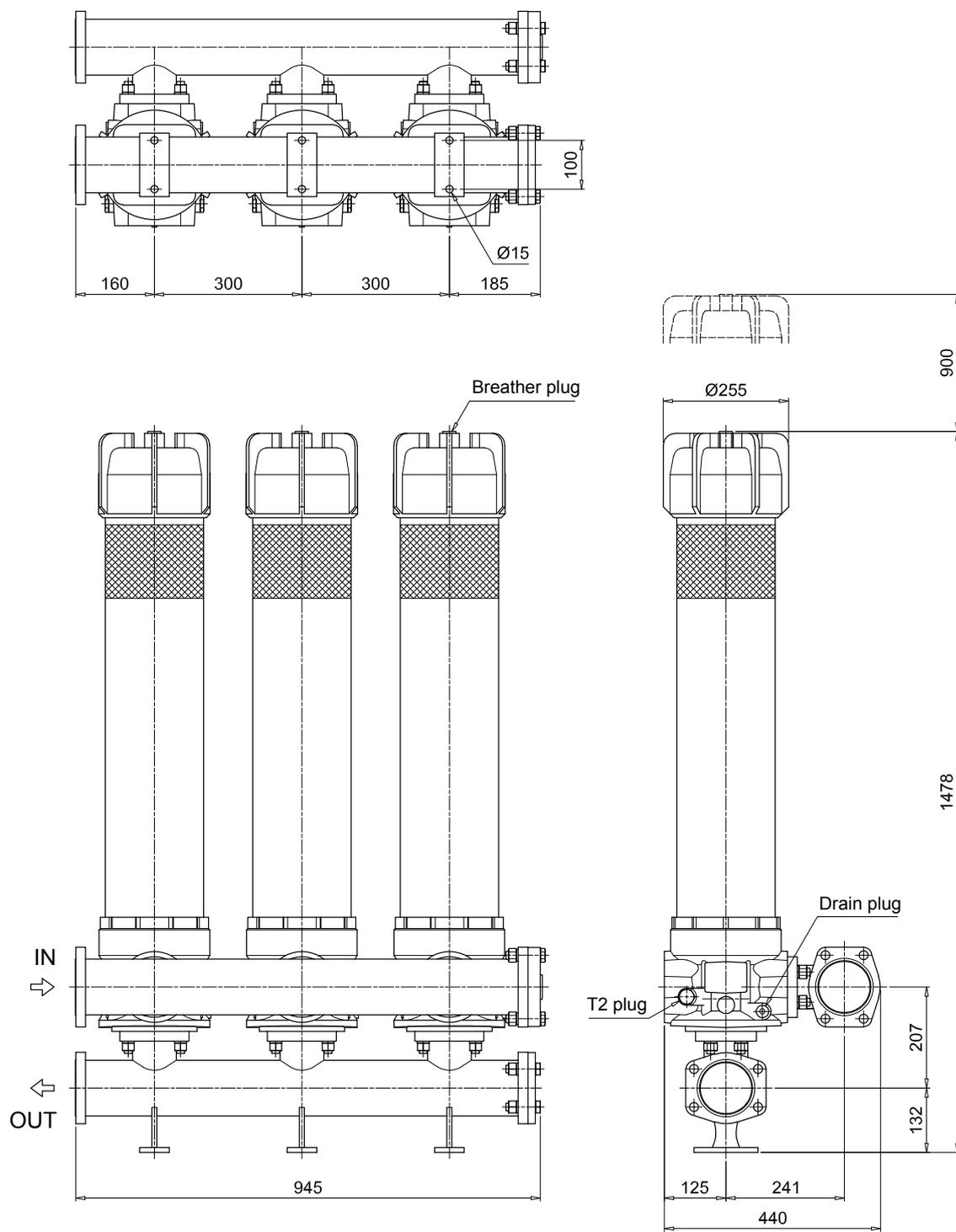


T2 plug = connection for differential pressure indicator

# LMP 952-953-954

## Dimensions

LMP953

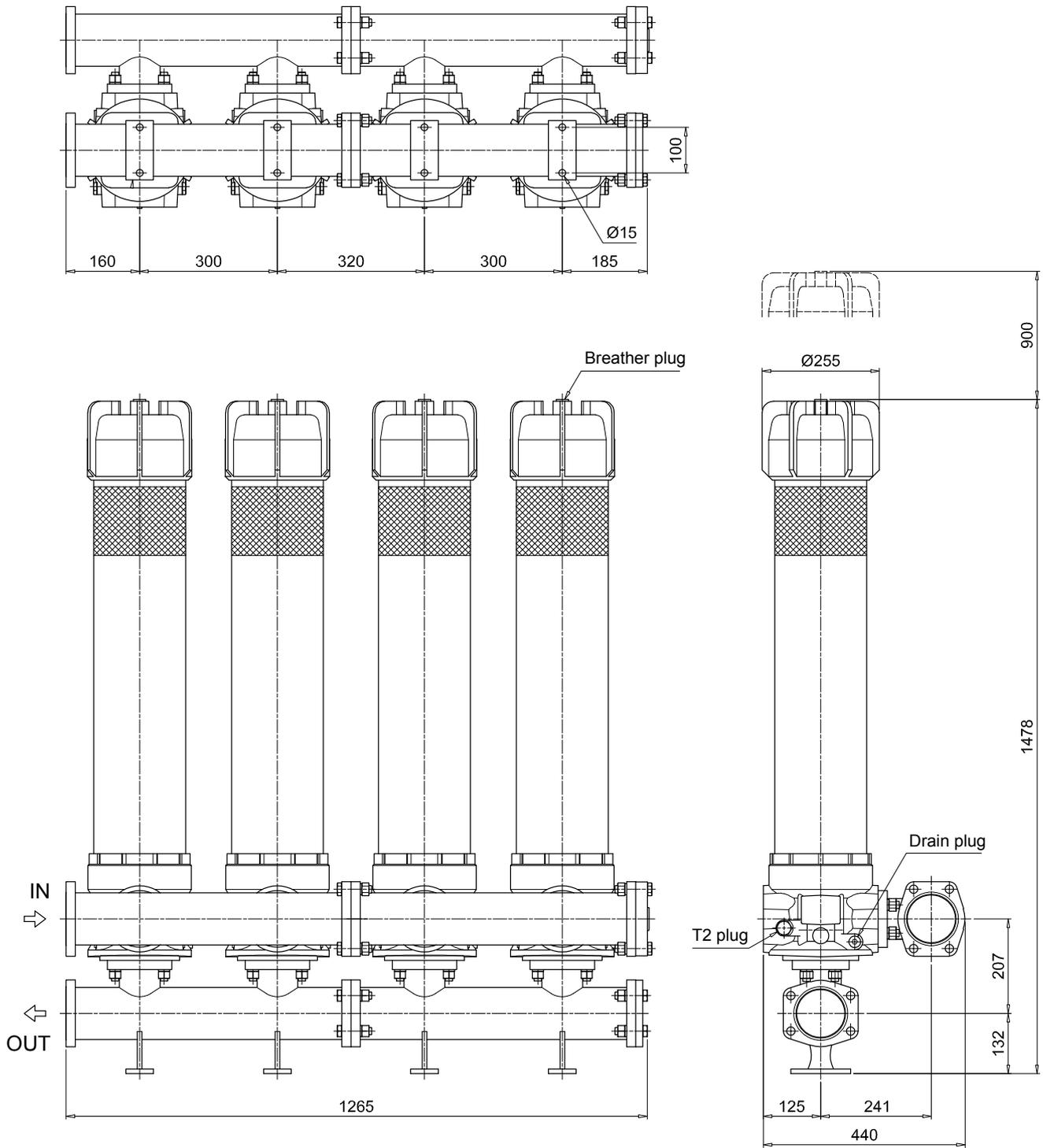


T2 plug = connection for differential pressure indicator

# LMP 952-953-954

Dimensions

LMP954

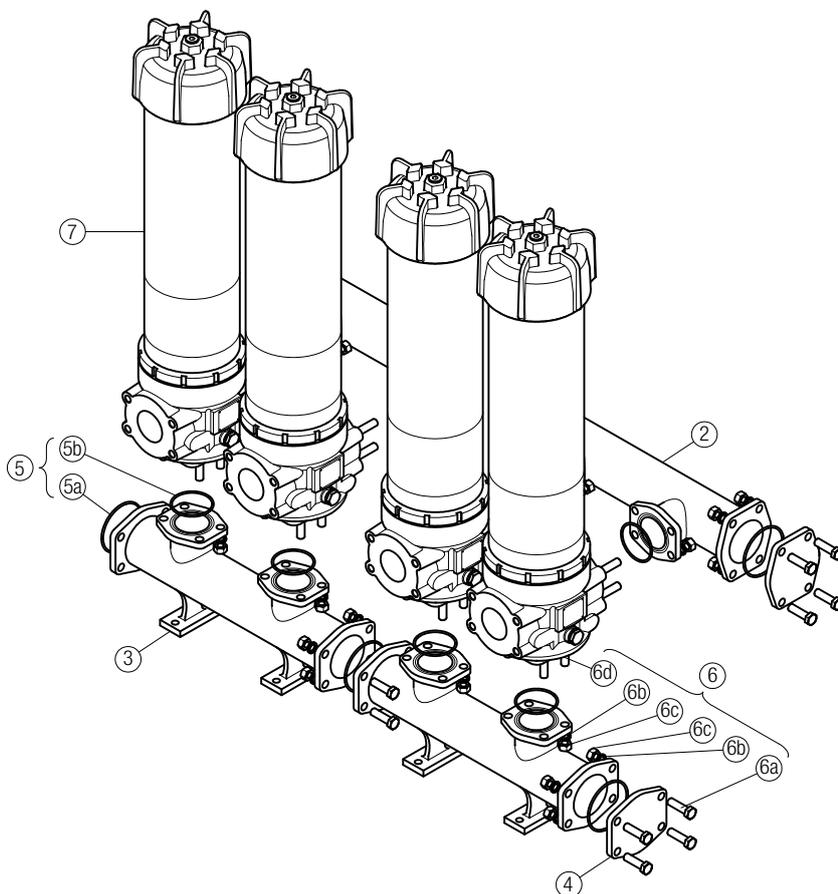


T2 plug = connection for differential pressure indicator

# LMP 952-953-954 SPARE PARTS

Order number for spare parts

LMP 952 - 953 - 954



Item 7:  
for complete filter code and  
spare parts, see  
LMP 950 - 951 series chapter

Quantity:  
- filter spare parts:  
LMP 952 - 2 pcs.  
LMP 953 - 3 pcs.  
LMP 954 - 4 pcs.

- filter seal kit:  
LMP 952 - 2 pcs.  
LMP 953 - 3 pcs.  
LMP 954 - 4 pcs.

Item:	2		3	4		5 (5a-5b)		6 (6a ÷ 6d)		7	
Filter series	Q.ty	Manifold IN	OUT	4" SAE 3000 psi plugged flange Q.ty		Q.ty	Manifolds seal kit NBR	FPM	Threaded fasteners kit Q.ty	Filter Q.ty	
LMP 952	1 pc.	01039270	01039271	2 pcs.		1 pc.	02050404	02050405	1 pc.	02049051	2 pcs.
LMP 953	1 pc.	01039337	01039338	2 pcs.	01042012	1 pc.	02050404	02050405	1 pc.	02049052	3 pcs.
LMP 954	2 pcs.	01039270	01039271	2 pcs.		1 pc.	02050406	02050407	1 pc.	02049053	4 pcs.

## LubeTeam Hydraulic S.r.l.

*Administration and Headquarter:*

Via Tufara Scautieri, 6

83018 - San Martino Valle Caudina (AV)

*Office and Warehouse:*

S.S. 7 Appia, Km. 237,00

82011 - Airola BN

ITALY

Tel. +39 0823 950 994

Fax +39 0823 412 546

[www.lubeteam.it](http://www.lubeteam.it) [info@lubeteam.it](mailto:info@lubeteam.it)

Italian VAT / C.F. e P.IVA: 01251720627

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