

LMD 951 series

Maximum working pressure up to 1.6 MPa (16 bar) - Flow rate up to 1200 l/min



LMD 951 general information

Description

Technical data

Low & Medium Pressure filters

Duplex

Maximum working pressure up to 1.6 MPa (16 bar) Flow rate up to 1200 l/min

LMD950 is a range of versatile low pressure duplex filter with integrated changeover function to allow the filter element replacement without the system shut-down.

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

Available features:

- Flanged connections up to 4", for a maximum flow rate of 1200 I/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.
- Balancing valve, to equalize the housing pressure before the switch
- Bypass valve, to relieve excessive pressure drop across the filter media
- Drain ports, to remove the fluid from the housing prior the maintenance work
- Visual, electrical and electronic differential clogging indicators

Common applications:

- Systems where shut-down causes high costs
- Systems where shut-down causes safety issues

Filter housing materials

- Head: Anodized Aluminium
- Housing: Anodized Aluminium
- Manifolds: Welded Painted black
- Bypass valve: Steel
- 3-way ball valve: Steel body Stainless steel ball
- Check valve: Cast Iron body AISI 304 leaf

Pressure

- SAE + DIN Flange
- Test pressure: 2.5 MPa (25 bar)

Bypass valve

- Opening pressure 350 kPa (3.5 bar) ±10%
- Other opening pressures on request.

Number of filter elements

LMD 951: 2 filter elements CU950-3

Δp element type

- Microfibre filter elements series N: 20 bar
- Fluid flow through the filter element from OUT to IN

Seals

FPM series V

Temperature

From -25° C to +110° C

Connections

- LMD 951: In-line Inlet/Outlet
- Same side

Note

LMD 951 filters are provided for vertical mounting

Weights [kg] and volumes [dm3]

Filter series	Weights [kg]	Volumes [dm³]			
	DN 80 DN 100	DN 80 DN 100			
LMD 951	102 130	62 66			

Flow rates [I/min]

		Filter element design - N Series						
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	
LMD 951	3	853	884	995	1066	1096	1233	

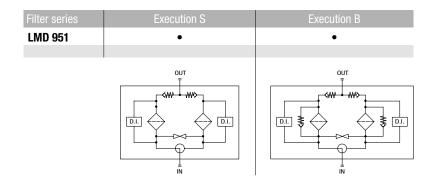
Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

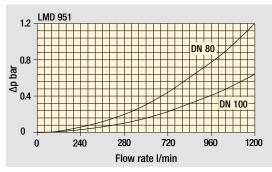
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

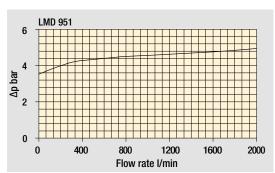


Pressure drop Bypass valve

pressure drop

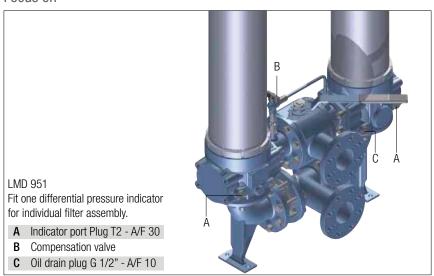


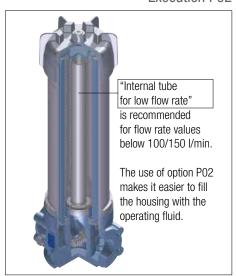
Filter housings ∆p pressure drop



The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

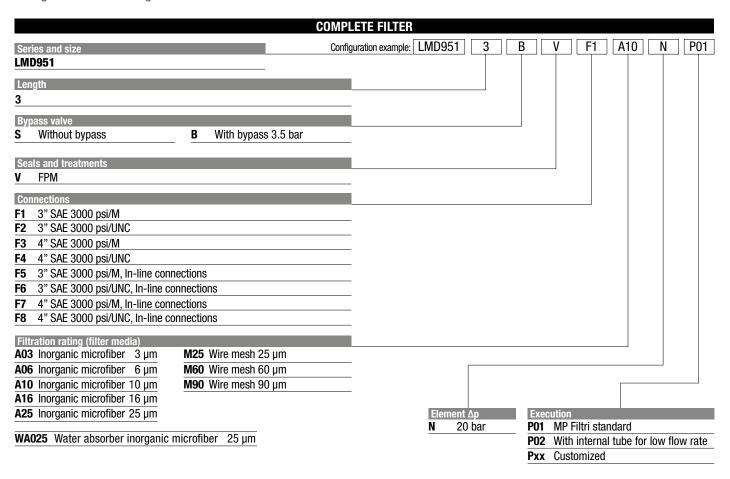
Focus on Execution P02

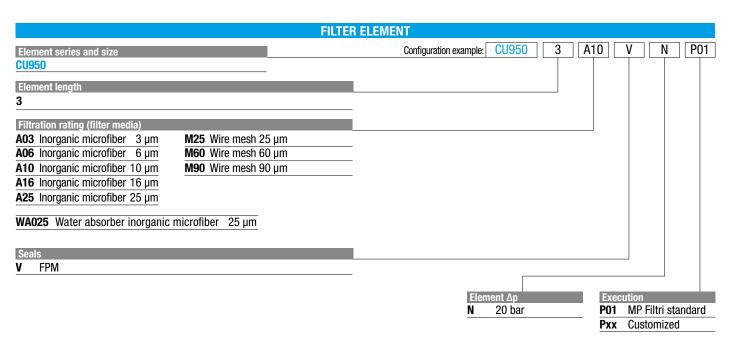




LMD 951

Designation & Ordering code

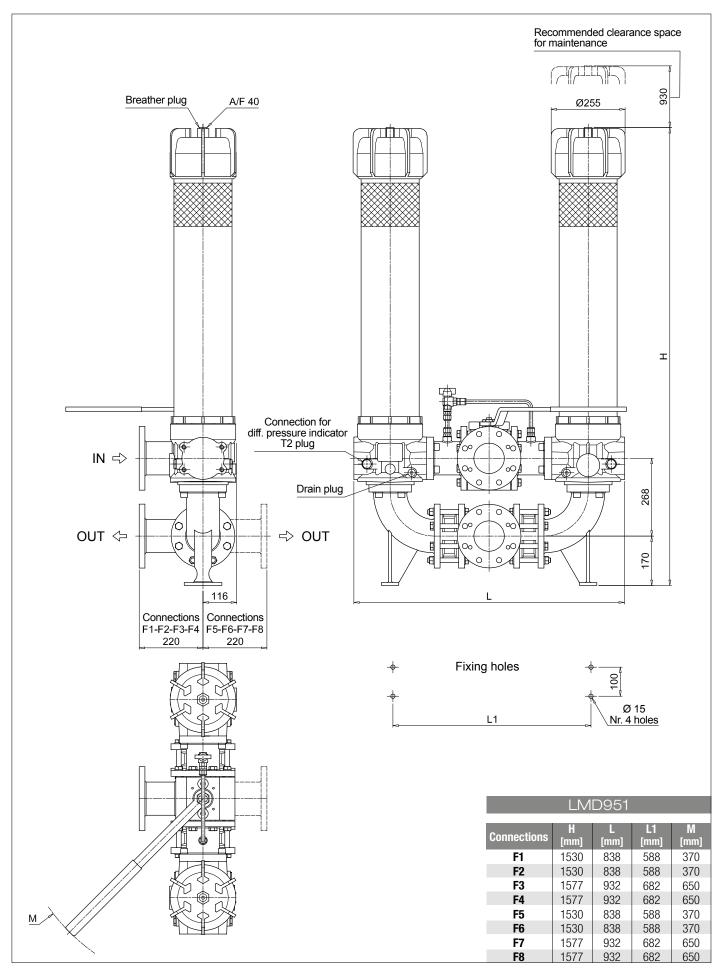




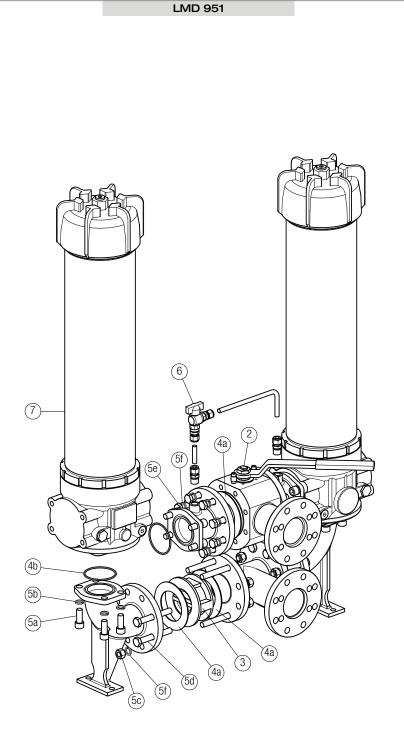
	CLOGGING INDICATORS			
DEA	Electrical differential pressure indicator	DLE	Electrical / visual differential pressure indicator	
DEM	Electrical differential pressure indicator	DTA	Electronic differential pressure indicator	
DEU	Electrical differential pressure indicator	DVA	Visual differential pressure indicator	
DLA	Electrical / visual differential pressure indicator	DVM	Visual differential pressure indicator	

PLUGS See page 747
T2 Plug

Dimensions



Order number for spare parts



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

- Quantity: filter spare parts: 2 pcs. filter seal kit: 2 pcs.

	Q.ty:	1 pc.	Q.ty: 2 pcs.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 2 pcs.
Item:		2	3	4	5 (5a ÷ 5f)	6	7
Filter series LMD 951	3-way ball	valve PN 16	One-way valve	Seal Kit	Threaded fasteners kit	G 1/2" Ball Valve Kit with straight fittings	Filter
F1 - F2 - F5 - F6 / D1 - D3 (3" SAE / DIN PN16 DN 80)		3" SAE 3000 psi/UNC 02001438		02050388	02049056	00005040	LMP9513xVF1xxxNP01
F3 - F4 - F7 - F8 / D2 - D4 (4" SAE / DIN PN16 DN 100)		4" SAE 3000 psi/UNC 02001439	02001419	02050389	02049057	02025043	LMP9513xVF3xxxNP01

CLOGGING INDICATORS LOW & MEDIUM PRESS, FILTERS

Designation & Ordering code

