

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

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 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.
- 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

Technical data

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

∆p 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 [dm ³]
	DN 80 DN 100	DN 80 DN 100
LMD 951	102 130	62 66

FILTER ASSEMBLY SIZING

Flow rates [l/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	

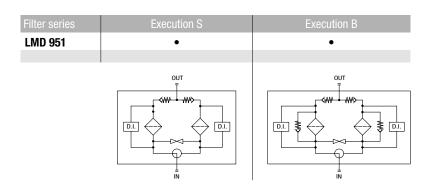
Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

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

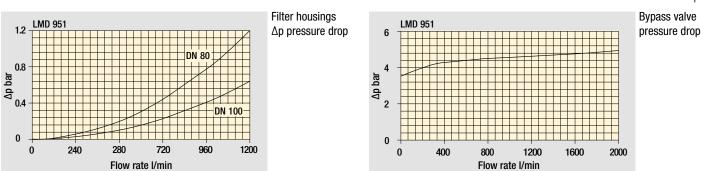
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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



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

"Internal tube for low flow rate" is recommended for flow rate values below 100/150 l/min. The use of option P02 LMD 951 makes it easier to fill Fit one differential indicator the housing with the for individual filter assembly. operating fluid. Α Indicator port Plug T2 - A/F 30 Compensation valve В Oil drain plug G 1/2" - A/F 10 С





Execution P02

Designation & Ordering code

_MD 951

	COMPLETE FILTER					
Series and size	Configuration example: LMD951 3	3		F1 A	10	N P01
LMD951						
Length						
3						
Bypass valve						
S Without bypass B With bypass 3.5 bar						
Seals and treatments						
V FPM						
Connections						
F1 3" SAE 3000 psi/M						
F2 3" SAE 3000 psi/UNC						
F3 4" SAE 3000 psi/M						
F4 4" SAE 3000 psi/UNC						
F5 3" SAE 3000 psi/M, In-line connections						
F6 3" SAE 3000 psi/UNC, In-line connections						
F7 4" SAE 3000 psi/M, In-line connections						
F8 4" SAE 3000 psi/UNC, In-line connections						
Filtration rating (filter media)						
A03 Inorganic microfiber 3 µm M25 Wire mesh 25 µm					1	
A06 Inorganic microfiber 6 µm M60 Wire mesh 60 µm]
A10 Inorganic microfiber 10 µm M90 Wire mesh 90 µm				Г		
A16 Inorganic microfiber 16 µm						
A25 Inorganic microfiber 25 µm	Element Δp	Execut				
WA025 Water absorber inorganic microfiber 25 µm	N 20 bar			ri standar		
THOLE Water absorber morganic microniber 20 µm		-	-		e tor IOV	v flow rate
		Pxx (JUSTON	iizea		

	FIL	TER ELEMENT						
Element series and size CU950		Configuration example:	CU950	3 A10			N [P01
Element length 3								
Filtration rating (filter media)A03Inorganic microfiber3 µmA06Inorganic microfiber6 µmA10Inorganic microfiber10 µmA16Inorganic microfiber16 µmA25Inorganic microfiber25 µm	M25 Wire mesh 25 μm M60 Wire mesh 60 μm M90 Wire mesh 90 μm							
WA025 Water absorber inorganic n Seals	nicrofiber 25 µm							
V FPM		Eler N	nent ∆p 20 bar	P	-	tion MP Filtr Custom		ard

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

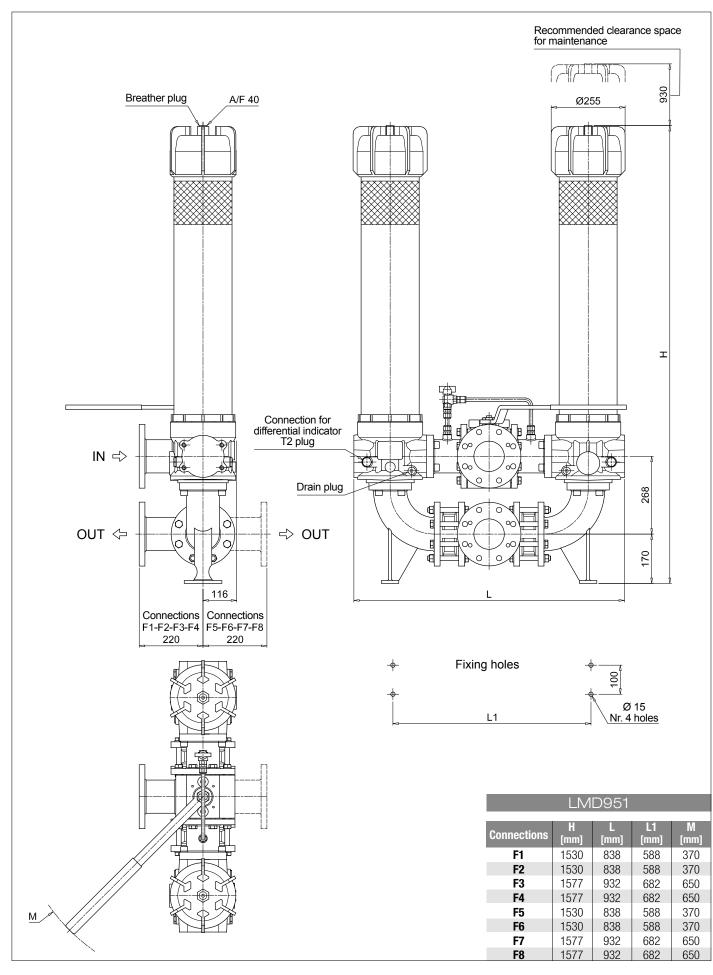
T2 Differential indicator plug

PLUGS

See page 706

LMD 951

Dimensions





LMD 951 SPARE PARTS

Order number for spare parts

