

LMP 110 series

Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 165 l/min



GENERAL INFORMA

Description

Low & Medium Pressure filters

Maximum working pressure up to 8 MPa (80 bar) Flow rate up to 165 I/min

LMP110 is a range of versatile low pressure filter for transmission, protection of sensitive components in low pressure hydraulic systems and filtration of the coolant into the machine tools.

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

Available features:

- -Female threaded connections up to 1", for a maximum return flow rate of 165 I/min
- Fine filtration rating, to get a good cleanliness level into the system
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical and electronic differential clogging indicators.

Common applications:

Delivery lines, in any low pressure industrial equipment or mobile machines

Technical data

Filter housing materials

- Head: Aluminium
- Housing: Cataphoresis Painted steel
- Bypass valve: Brass Aluminium

Pressure

- Test pressure: 12 MPa (120 bar) - Burst pressure: 29 MPa (290 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 8 MPa (80 bar)

Bypass valve

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

Δp element type

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

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Note

LMP filters are provided for vertical mounting

Weights [kg] and volumes [dm3]

Filter series	Weights [kg]					Volumes [dm³]			
	Length 1				Length 1				
LMP 110	1.60	1.80	2.10	2.60	0.75	0.81	1.11	1.53	

GENERAL INFORMATION LMP 110

Flow rates [I/min]

		Filter element design - N Series								
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10	P25	
LMP 110	1	40	42	65	69	85	163	117	120	
	2	49	57	83	83	101	163	136	138	
	3	66	70	92	102	124	164	142	144	
	4	86	102	118	124	144	165	148	149	

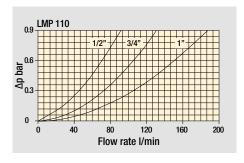
Maximum flow rate for a complete low and medium pressure filter with a pressure drop $\Delta p = 0.7$ bar.

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

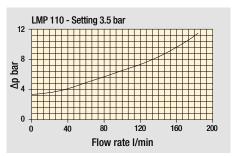
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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.

Pressure drop



Filter housings Δp pressure drop



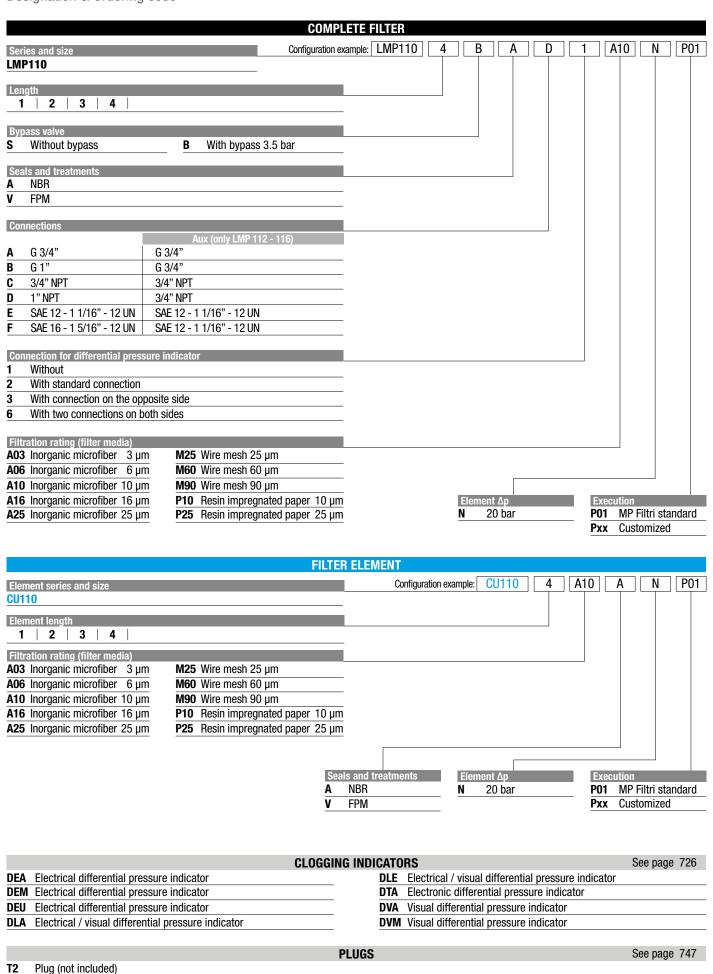
Bypass valve pressure drop

The curves are plotted using mineral oil with density of 0.86 kg/dm 3 in compliance with ISO 3968. Δp varies proportionally with density.

Hydraulic symbols



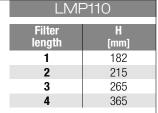
Designation & Ordering code

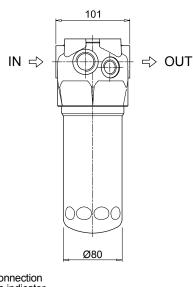


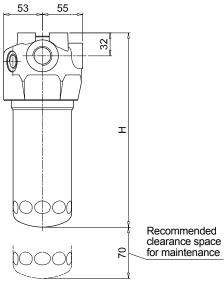


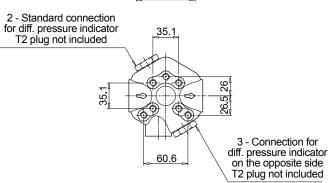
T2

Dimensions

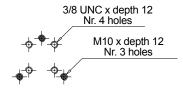




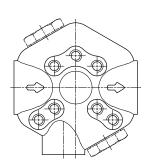




Fixing holes Option for Metric and UNC screws

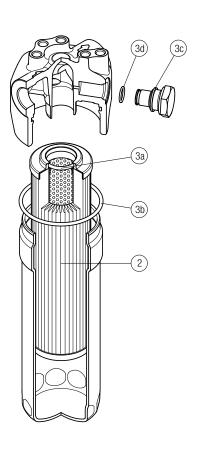


LMP 110



Order number for spare parts

LMP 110



	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty: 1 pc.		
Item:	2	3 (3a ÷ 3d)		4		
Filter series	Filter element	Seal Kit code number NBR FPM		Indicator connection plug NBR FPM		
LMP 110	See order table	02050478	02050479	T2H	T2V	

CLOGGING INDICATORS LOW & MEDIUM PRESS, FILTERS

Designation & Ordering code

