

LMP 110 series

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





LMP 110 GENERAL INFORMATION

Description

Technical data

Low & Medium Pressure filters Maximum working pressure up to 8 MPa (80 bar) Flow rate up to 165 l/min	Filter housing materials - Head: Aluminium - Housing: Cataphoresis - Painted steel - Bypass valve: Brass - Aluminium
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.	 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)
 Available features: Female threaded connections up to 1", for a maximum return flow rate of 165 l/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. 	Bypass valve - Opening pressure 350 kPa (3.5 bar) ±10% - Other opening pressures on request.
Common applications: Delivery lines, in any low pressure industrial equipment or mobile machines	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 [dm ³]				
	Length 1				Length 1				
LMP 110	1.60	1.80	2.10	2.60	0.75	0.81	1.11	1.53	

FILTER ASSEMBLY SIZING

Flow rates [l/min]

Pressure drop

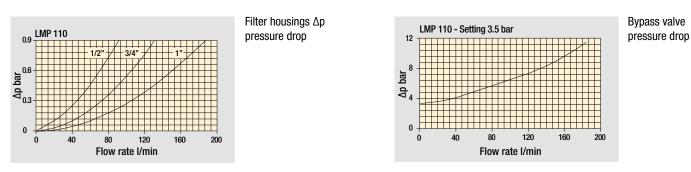
		Filter element design - N Series								
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10	P25	
	1	40	42	65	69	85	163	117	120	
LMP 110	2	49	57	83	83	101	163	136	138	
	3	66	70	92	102	124	164	142	144	
	4	86	102	118	124	144	165	148	149	

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

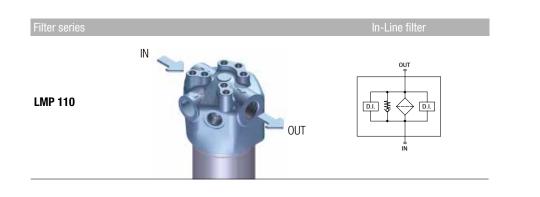
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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.



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



Hydraulic symbols



Designation & Ordering code

			COMPLE	TE FILTER									
Ser	ies and size		Configuration exam	ple: LMP110	4	В	A	D	1	A	10	Ν	P01
LMI	P110												
Len	qth												
1													
Byn	ass valve												
S	Without bypass	B With bypass 3.5	bar										
Sea A	Is and treatments NBR												
Ň	FPM												
Con	nections	Aux (only LMP 112 - 1	16)										
Α	G 3/4"	G 3/4"	10)										
B	G 1"	G 3/4"											
C	3/4" NPT	3/4" NPT											
D	1" NPT	3/4" NPT											
Ε	SAE 12 - 1 1/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN											
F	SAE 16 - 1 5/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN											
Con	nection for differential press	sure indicator											
1	Without												
2	With standard connection												
3	With connection on the op	posite side											
6	With two connections on b												
	ration rating (filter media)												
	Inorganic microfiber 3 µr												
	inorganic microfiber 6 µr												
	Inorganic microfiber 10 µr								_				
	inorganic microfiber 16 µr					ement ∆p				Execut		tri ata	ndord
A25	i Inorganic microfiber 25 µr	m P25 Resin impregnated	i paper 25 µm		Ν	20 ba	1í				MP Fil		nuard
										Pxx	Custor	nizea	

FILTER ELEMENT 4 A10 N P01 Configuration example: CU110 Α Element series and size CU110 Element length 1 | 2 | 3 | 4 | Filtration rating (filter media) A03 Inorganic microfiber $3 \ \mu m$ M25 Wire mesh 25 µm A06 Inorganic microfiber 6 µm M60 Wire mesh 60 µm M90 Wire mesh 90 µm A10 Inorganic microfiber 10 µm P10 Resin impregnated paper 10 µm A16 Inorganic microfiber 16 µm A25 Inorganic microfiber 25 µm P25 Resin impregnated paper 25 µm Seals and treatments Element Ap Execution A P01 MP Filtri standard NBR Ν 20 bar V FPM Pxx Customized

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

T2 Plug (not included)

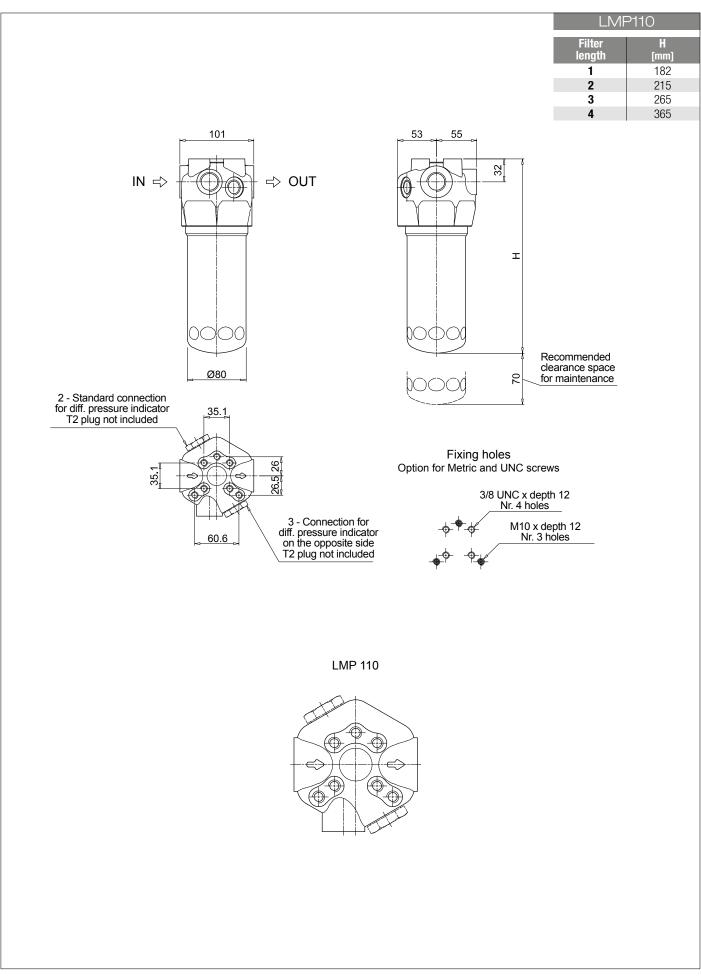
PLUGS

See page 737





Dimensions

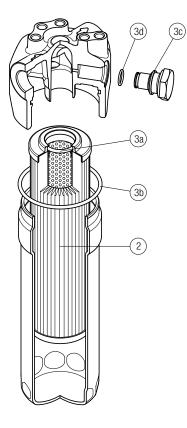






Order number for spare parts

LMP 110



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





