



WLB

LUBE OIL FILTER



DESCRIPTION

Lube oil filter for wind power applications

MATERIALS

Head: Aluminum alloy
Bowl: Aluminum alloy
Bypass valve : Polyamide
Seals: NBR Nitrile - FKM Fluor elastomer
Indicator housing: Brass - Aluminum

PRESSURE

Max. working: 3 MPa (30 bar)
Collapse, differential for the filter element (ISO 2941): 2 MPa (20 bar)

BYPASS VALVE

Setting: 400 kPa (4 bar) ± 10%

FLOW RATE

Qmax 400 l/min

WORKING TEMPERATURE

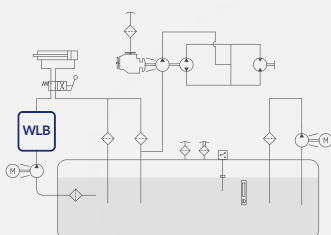
From -25° to +110° C

COMPATIBILITY (ISO 2943)

Full with fluids: HH-HL-HM-HV-HTG
(according to ISO 6743/4)
For fluids different than the above mentioned,
please contact our Customer Service



HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website

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ORDERING AND OPTION CHART

W	L	B	COMPLETE FILTER WITH DOUBLE STAGE ELEMENT				DOUBLE STAGE FILTER ELEMEN	S	L	B
			SIZE & LENGTH	31	32	33				
				31	32	33	SIZE & LENGTH			
			PORT TYPE							
			F = SAE flange (in-line port)	F	F	F				
			H = SAE flange (90-degree port, only 32 size available)	-	H	H				
			PORT SIZE							
			16 = 2"	16	16	16				
			20 = 2"1/2	20	20	20				
			24 = 3"	24	24	24				
			32 = 4"	32	32	32				
			BYPASS VALVE							
			G = 400 kPa (4 bar) - for double stage element version	G	G	G				
			SEALS				SEALS			
			N = NBR Nitrile	N	N	N				
			F = FKM Fluoroelastomer	F	F	F				
			FormulaUFI MEDIA				FormulaUFI MEDIA			
			FB = FormulaUFI.MICRON 7 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FB	FB	FB				
			FC = FormulaUFI.MICRON 12 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FC	FC	FC				
			FS = FormulaUFI.MICRON 16 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FS	FS	FS				
			FD = FormulaUFI.MICRON 21 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FD	FD	FD				
			FE = FormulaUFI.MICRON 30 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FE	FE	FE				
			CLOGGING INDICATOR**							
			03 = port, plugged	03	03	03				
			5D = visual differential 250 kPa (2,5 bar)	5D	5D	5D				
			6D = electrical differential 250 kPa (2,5 bar)	6D	6D	6D				
			7D = indicator 6D with LED	7D	7D	7D				
			T6 = elect. diff. 250 kPa (2,5 bar) with thermostat 30°C	T6	T6	T6				
			2D = elect. diff. sensor 4-20mA 250 kPa (2,5 bar)	2D	2D	2D				
X	X		ACCESSORIES							
			XX = no accessory available	XX	XX	XX				

** When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see Clogging Indicator Chapter for further details)

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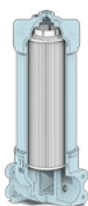
SPARE PARTS

FILTER HOUSING

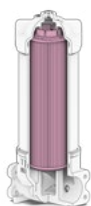
FILTER ELEMENT

CLOGGING INDICATOR

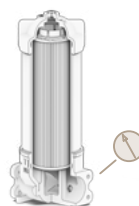
ACCESSORY



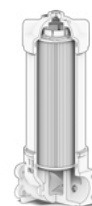
B	L	B					G				X	X
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S	L	B										
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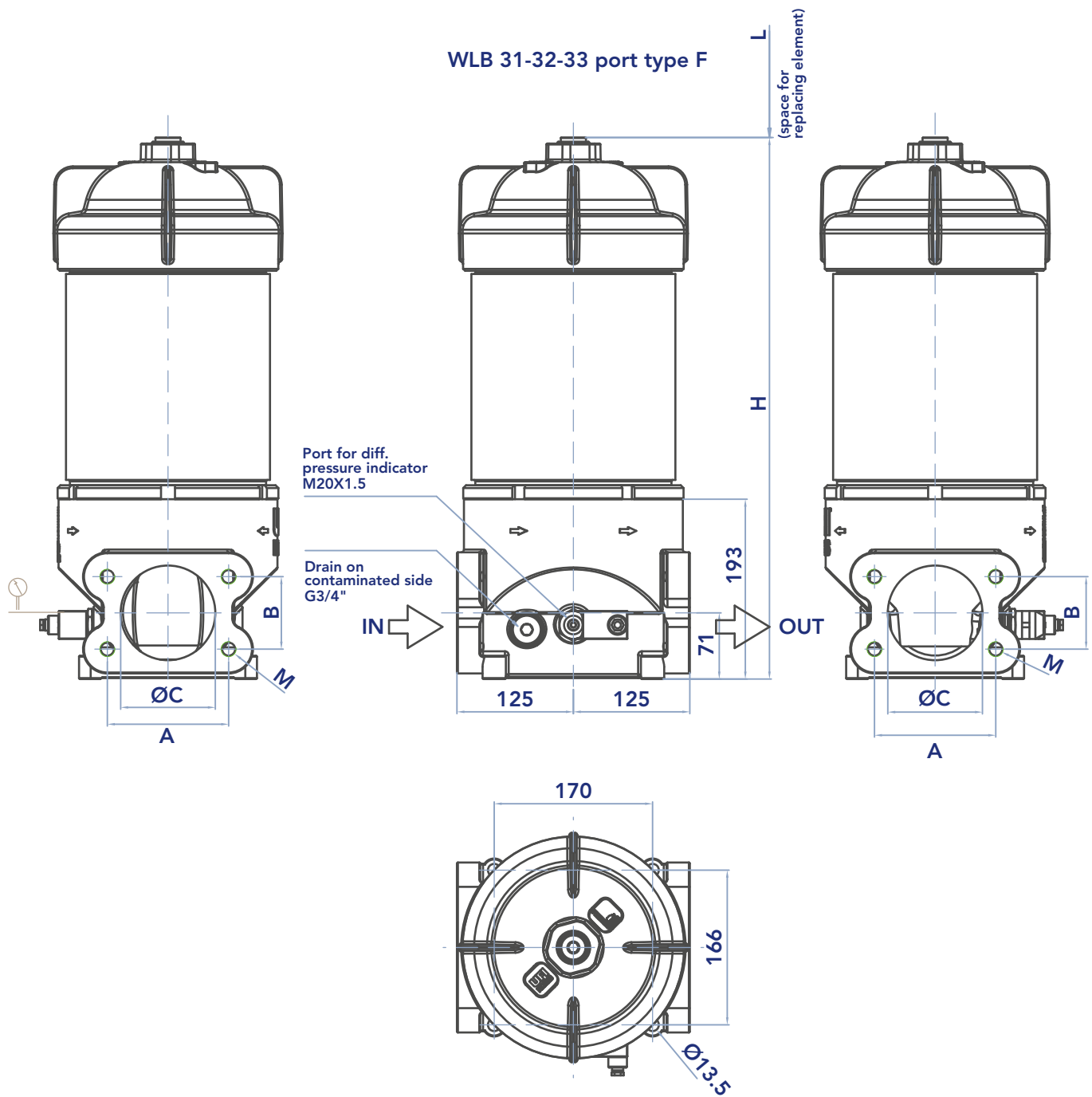


X	X
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INSTALLATION DRAWING



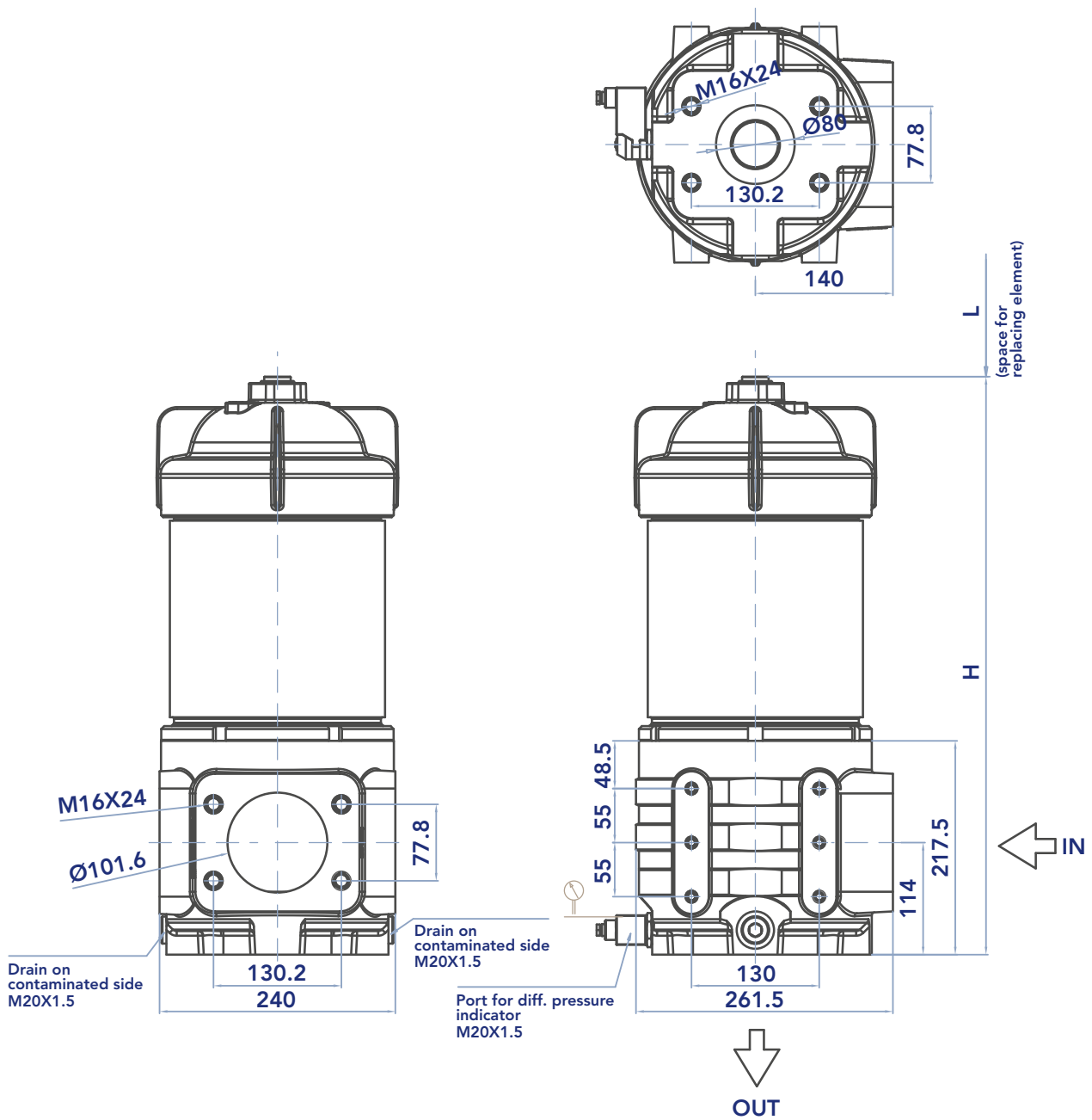
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INSTALLATION DRAWING

WLB 32-33 port type H



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FILTER HOUSING

	PORT SIZE	A	B	C	M	H	L	KG
WLB31F16	SAE DN50 (2")	77,8	42,9	50	M12X15	609	350	26,3
WLB31F20	SAE DN65 (2 1/2")	88,9	50,8	62,5	M12X15	609	350	26
WLB31F24	SAE DN80 (3")	106,4	61,9	75	M16X24	609	350	25,4
WLB31F32	SAE DN100 (4")	130,2	77,8	100,5	M16X24	609	350	24,6
WLB32F16	SAE DN50 (2")	77,8	42,9	50	M12X15	728	470	31,2
WLB32F20	SAE DN65 (2 1/2")	88,9	50,8	62,5	M12X15	728	470	30,8
WLB32F24	SAE DN80 (3")	106,4	61,9	75	M16X24	728	470	30,3
WLB32F32	SAE DN100 (4")	130,2	77,8	100,5	M16X24	728	470	29,5
WLB33F16	SAE DN50 (2")	77,8	42,9	50	M12X15	1169	900	44,5
WLB33F20	SAE DN65 (2 1/2")	88,9	50,8	62,5	M12X15	1169	900	44,1
WLB33F24	SAE DN80 (3")	106,4	61,9	75	M16X24	1169	900	43,6
WLB33F32	SAE DN100 (4")	130,2	77,8	100,5	M16X24	1169	900	42,7
WLB32H32	SAE DN100 (4")	-	-	-	-	638,5	470	30,2
WLB33H32	SAE DN100 (4")	-	-	-	-	1080	900	44,1

FILTER ELEMENT

	A	B	C	Kg	AREA (cm ²)	
					Media F+	Media M
SLB31	143,5	96,5	413	3,42	15.704	3.387
SLB32	143,5	96,5	532	5,70	20.729	3.387
SLB33	143,5	96,5	973	9,32	39.329	3.387



The used filter elements cannot be cleaned and are classified as "Dangerous waste material". They must be disposed of according to local laws by authorized Companies. Verify that the Company you choose has the expertise and authorization to dispose this type of waste material.

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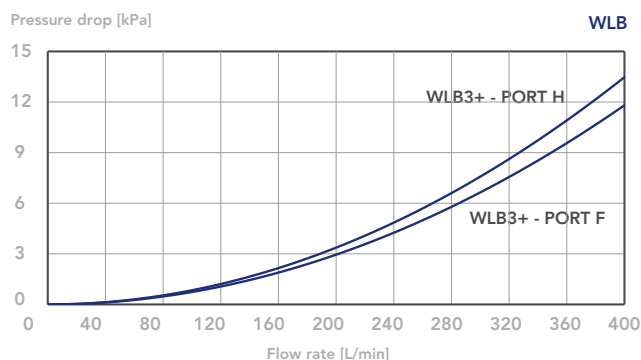


PRESSURE DROP CURVES (ΔP)

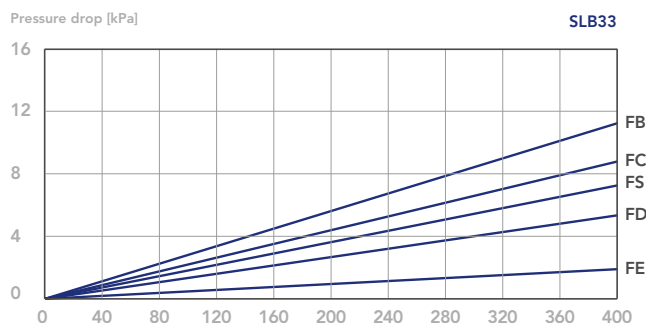
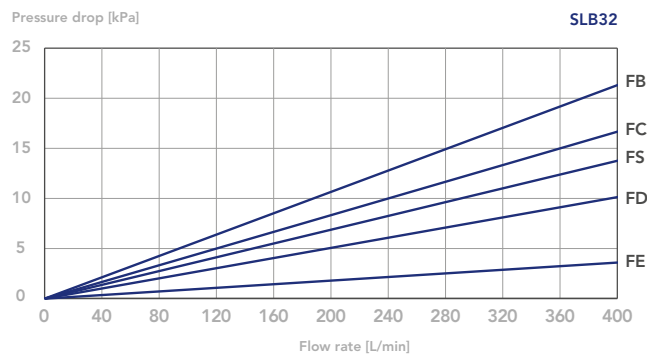
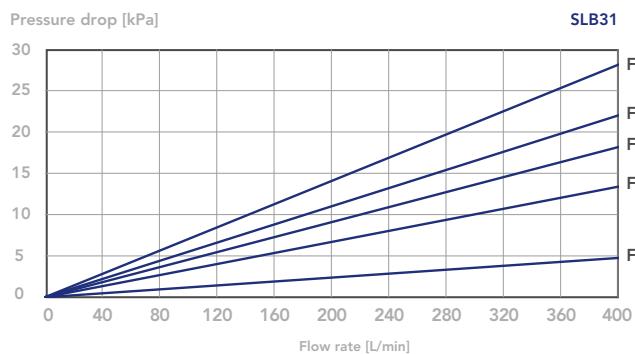
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element

corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar) and should never exceed 1/3 of the bypass valve setting.

FILTER HOUSING PRESSURE DROP
(mainly depending on the port size)



CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ MEDIA
(depending both on the internal diameter of the element and on the filter media)



N.B.

All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,86 kg/dm³; for fluids with different features, please consider the factors described in the first part of this catalogue. All the curves are

obtained from test done at the UFI FILTERS HYDRAULICS Laboratory, according to the specification ISO 3968. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.