



FD3 SERIES

In line high pressure filters

Inline filters for operating pressure up to 110 bar, flow rate up to 30 l/min.

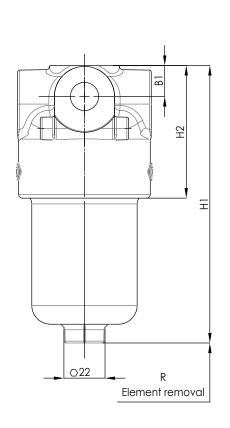
Available with or without bypass, indicator port is a standard option to fit a visual or electrical differential indicator.

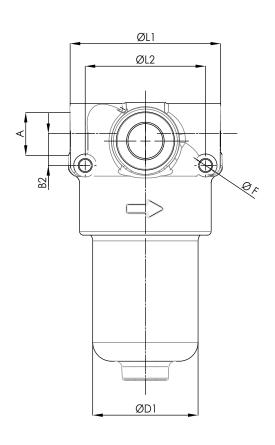
TECHNICAL INFORMATION

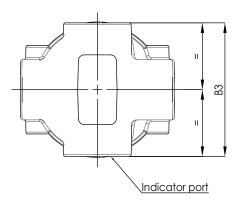
HOUSING	tested according to NFPA T3.10.5.1 , ISO3968				
HYDRAULIC SYMBOL:	A B	A B			
PRESSURE:) bar) bar			
CONNECTION PORTS:	G 1/2"				
MATERIALS:	Head: Bowl: Seal:	aluminium alloy aluminium alloy NBR (FKM on request)			
BYPASS:	No by-pass or 6 bar	setting			
ELEMENT	tested according to ISO 2	941, 2942, 2943, 3968, 16889, 23181			
FILTER MEDIA:	Inorganic microfiber Paper:	: G03 - G06 - G10 - G15 - G25 C10			
DIFFERENTIAL COLLAPSE PRESSURE:	21 bar				
OPERATING TEMPERATURE RANGE:	-25°C +100°C				
FLUID COMPATIBILITY:	Full with HH-HL-HM For use with other flo (info@filtrec.it).	-HV (acc. To ISO 2943). uid please contact Filtrec Customer Service			



OVERALL DIMENSIONS







NOMINAL SIZE

MODEL	А	B1	B2	В3	D1	F	H1	H2	L1	L2	R	WEIGHT
FD3-10	G 1/2"	16	17	72	56	6.5	147	70	80	64	90	2,4 Kg
FD3-11	G 1/2	10	17	7 2	30	6,5	236	70	80	04	70	2,6 Kg



ORDERING INFORMATION

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
	F	D3	10	G10	Α	В	В3	D	W	EX5
SPARE E	ELEMENT	D3	10	G10	Α					
1. FILTE	ΕR			F						
2. SERII	ES			D3						
3. FILTE	R SIZE			10-11						
									_	
4. FILTE	R MEDIA			000		element			_	
				G03			$_{\rm rm(c)} > 1.00$		_	
			_	G06			$_{m(c)} > 1.00$		_	
			_	G10			$u_{m(c)} > 1.00$		_	
			_	G15			$u_{m(c)} > 1.00$		_	
				G25	glas	ssfiber ß _{22,}	$u_{m(c)} > 1.00$	00	_	
				C10	pap	er β _{10μm(c)}	> 2		_	
5. ELEA	MENT COLI	LAPSE		Α	21	bar				
6. SEAL	.S		Ī	В	NBF	₹				
				V	FKM	٨			_	
7. CON	NECTION	IS]	В3	G 1	/2"			_	
8. BYPA	ASS VALVE]	0	no l	by-pass				
				D	6 b	ar			_	
9. INDI	CATOR PC	RT OPTION	ИС	Т	with	metal plu	າີ່ 			
				W		plastic pl	_		when usi	ng an indicato
10. INE	DICATOR			000	no i	indicator				
				VX5	diffe	erential vis	sual 5 bar		_	
			1						_	

differential electrical 5 bar

ACCESSORIES	LC24	LED connector

EX5

The accessories must be ordered separately



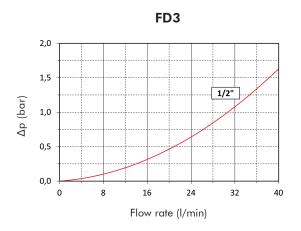
PRESSURE DROP (Ap) INFORMATION FOR FILTER SIZING

The total Delta P through a filter assembly is given from Housing Δp + Element Δp .

This ideally should not exceed 1,0 bar and should never exceed 1/3 of the set value of the by-pass valve. N.B. All the reported data have been obtained at our laboratory, according to specification ISO3968 with mineral oil having 32 cSt viscosity and density 0,875 Kg/dm³.

HOUSING PRESSURE DROP

The housing Δp is given by the curve of the considered model and port, in correspondence of the flow rate value.



ELEMENT PRESSURE DROP

The element Δp (bar) is given by the flow rate (I/min) multiplied by the factor in the table here below corresponding to the selected media and divided by 1000.

If the oil has a viscosity Vx different than 32 cSt a corrective factor Vx/32 must be applied.

Example: 20 l/min with D310G10A and oil viscosity 46 cSt $> 20 \times 0.75/1000 \times 46/32 = 0.02$ bar

	G03A	G06A	G10A	G15A	G25A	C10A
D310	88,57	45,71	21,43	15,71	10,00	8,57
D311	35,71	17,14	10,00	7,14	4,29	2,86

EXAMPLE OF TOTAL Δp **CALCULATION**

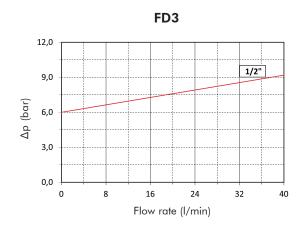
FD3G10ABB5DWV05 with 20 I/min and oil 46 cSt:

Housing Δp 0,5 bar + element Dp 0,02 bar (20 x 0,75/1000 x 46/32) = total assembly Δp 0,52 bar



BYPASS VALVE PRESSURE DROP

The bypass valve Δp is given by the curve of the considered model and setting, in correspondence of the flow rate value.



N.B. All the reported data have been obtained at our laboratory, according to specification ISO3968 with mineral oil having 32 cSt viscosity and density 0,875 Kg/dm³.



USER TIPS



- FILTER HEAD
- 2 INDICATOR PORT
- 3 FIXING HOLES
- BY- PASS VALVE
- 5 FILTER ELEMENT
- 6 FILTER BOWL
- SEAL KIT
- IDENTIFICATION LABEL

INDICATOR TIGHTENING TORQUE

VX5/EX5	50 Nm	
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SPARE SEAL KIT PART NUMBER

	NBR	FKM
FD3	06.021.00147	06.021.00148

WARNING



Make sure that Personal Protective Equipment (PPE) is worn during installation and maintenance operation.

DISPOSAL OF FILTER ELEMENT



The used filter elements and the filter parts dirty of oil are classified as "Dangerous waste material": they must be disposed according to the local laws by authorized Companies.

INSTALLATION



- 1. the IN and OUT ports must be connected to the hoses in the correct flow direction (an arrow shows on the filter head (1)
 - the filter housing should be preferably mounted with the bowl (6) downward
 - secure to the frame the filter head (1) using the threaded fixing holes (3)
 - 4. verify that no tension is present on the filter after mounting
 - 5. enough space must be available for filter element replacement
 - the visual clogging indicator must be in a easily viewable position
 - 7. when a electrical indicator is used, make sure that it is properly wired



- never run the system with no filter element fitted
- keep in stock a spare FILTREC filter element for timely replacement when required

OPERATION



- 1. the filter must work within the operating conditions of pressure, temperature and compatibility given in the first page of this data
 - the filter element must be replaced as soon as the clogging indicator signals at working temperature (in cold start conditions, oil temperature lower than 30°C, a false alarm can be given due to oil viscosity)
 - If no clogging indicator is mounted, replace the element according to the system manufacturer's recommendations

MAINTENANCE



- make sure that the system is switched off and there is no residual pressure in the filter
- 2. unscrew the bowl (6) by turning it anti-clockwise and remove it
- 3. remove the dirty element (5)
- 4. fit a new FILTREC element (5), verifying the part number, particularly concerning the micron rating; open its plastic protection on the open end side and insert it onto the spigot in the filter head, then remove completely the plastic protection
- 5. clean carefully the bowl; check the O-rings (7) conditions and replace if necessary
- 6. lubricate the bowl's thread (6) and screw it by hand in the filter head (1) by turning it
- screw in the bowl to stop



<u> 8</u>. the used filter elements cannot be cleaned and re-used





Fone: +55 41 3081 3050

E-mail: vendas@megafilter.com.br

Site: https://www.megafilter.com.br/

Rua Silvio Pinto Ribeiro, 1625 — Quississana, São José dos Pinhais — PR CEP 83085-400



