

## CLOGGING INDICATORS



### DESCRIPTION

During the system operation, the pressure drop through the filter increases as the element clogs, due to the contaminant retained.

The filter element must be replaced when clogged and anyway before the pressure drop reaches the bypass valve set value.

For this reason it is recommended a clogging indicator on the filter. It gives a visual or electrical indication and must have a set value lower than the bypass valve set value, to get an exact indication of the right time for filter element replacement.

On **return** and **low pressure filters** the clogging indicator can be a **pressure gauge** or a **pressure switch**, measuring the pressure upstream the filter.

On some return filters and on **high pressure filters**, the clogging indicator can be of **differential** type: measuring the pressure upstream and downstream the filter and activating a signal when the differential pressure reaches the set value.

On **suction filters** the clogging indicator is a **vacuum gauge** or a **vacuum switch**, measuring the depressurization downstream the filter.

All the UFI filters have the port for the indicator as a standard feature; if the filter is ordered without indicator the port is plugged with a removable plug allowing the indicator to be added easily at any time.

### PRESSURE FILTERS INDICATORS

- Pressure gauges
- Pressure switches
- Differential, visual
- Differential, electrical
- Differential, el. + LED
- Differential, el. + thermostat
- Differential, el. + visual
- Differential, el. Vandal proof
- Differential, el. ATEX

### RETURN FILTERS INDICATORS

- Pressure gauges
- Pressure switches
- Differential, visual
- Differential, electrical
- Differential, el. + LED
- Differential, el. + thermostat
- Differential, el. + visual
- Differential, el. ATEX

### OFF-LINE FILTERS INDICATORS

- Differential, visual
- Differential, electrical
- Differential, el. + LED
- Differential, el. + thermostat
- Differential, el. + visual
- Differential, el. ATEX

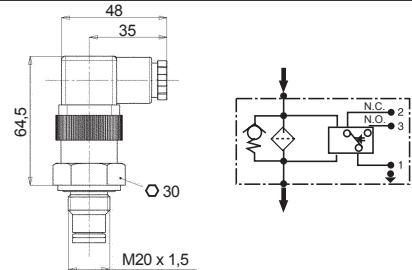
### SUCTION FILTERS INDICATORS

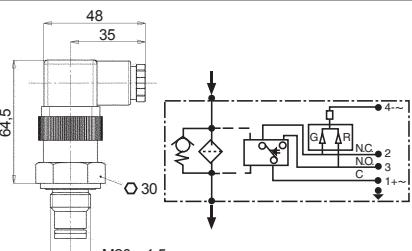
- Vacuum gauges
- Vacuum switches

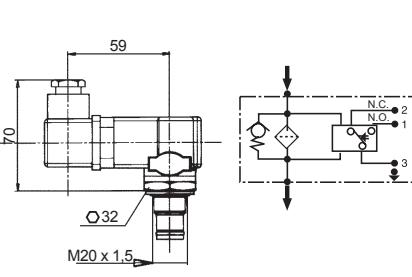
## INDICATORS FOR PRESSURE FILTERS

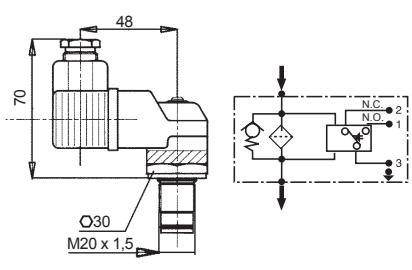


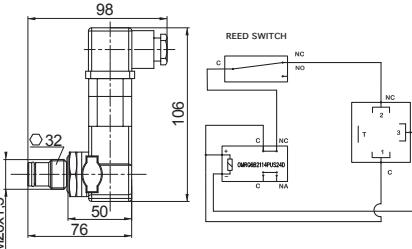
INDICATOR SERIES		DESCRIPTION	FOR PRESSURE FILTERS SERIES	
NBR	FKM	<b>Pressure gauge</b>		
<b>31</b>	-	Scale 0÷12 bar (0÷1,2 MPa)	PE - PH	
NBR	FKM	<b>Pressure gauge stainless steel, glycerine filled</b>		
<b>039.0184.1</b>	-	Scale 0÷12 bar (0÷1,2 MPa)	PE - PH	
NBR	FKM	<b>Pressure switch</b>		
<b>P1</b>	-	Setting 1,5 bar (150 kPa)	PE - PH	
		SPDT, Max voltage 250V - 50 Hz - Max current 6 A resistive, 1 A inductive - Protection IP65 connector DIN 43650		
NBR	FKM	<b>Differential VISUAL ELECTRICAL indicator</b>		
<b>N0</b>	<b>S0</b>	Setting 1,3 bar (130 kPa)	for FPE A+, B+	
		SPDT differential switch, C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650		
NBR	FKM	<b>Differential VISUAL indicator</b>		
<b>U0</b>	<b>W0</b>	Setting 1,3 bar (130 kPa)	for FPE A+, B+	
NBR	FKM	<b>Differential VISUAL indicators</b>		
<b>5B</b>	<b>AB</b>	Setting 1,3 bar (130 kPa)	PH	
<b>5D</b>	<b>AD</b>	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)	
<b>5E</b>	<b>AE</b>	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM	
<b>5F</b>	<b>AF</b>	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM	

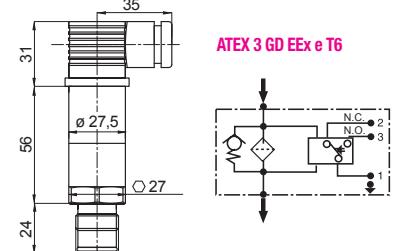
INDICATOR SERIES		DESCRIPTION	FOR PRESSURE FILTERS SERIES
NBR	FKM	 Differential ELECTRICAL indicators	
6B	CB	Setting 1,3 bar (130 kPa)	PH
6D	CD	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
6E	CE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
6F	CF	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators with LED (24 V) for visual indication	
7B	EB	Setting 1,3 bar (130 kPa)	PH
7D	ED	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
7E	EE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
7F	EF	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators with THERMOSTAT 30° C	
T0	DB	Setting 1,3 bar (130 kPa)	PH
T2	DE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
T3	DF	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
T6	DD	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential VISUAL ELECTRICAL indicators	
70	E0	Setting 1,3 bar (130 kPa)	PH
76	E6	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
72	E2	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
73	E3	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators VANDAL PROOF	
M2	-	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
M3	-	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
M6	-	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators ATEX	
008.0239.2	-	Setting 1,3 bar (130 kPa)	PA - PB - PD - PL - PM
008.0240.2	-	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
008.0235.2	-	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
008.0212.2	-	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

## INDICATORS FOR RETURN FILTERS



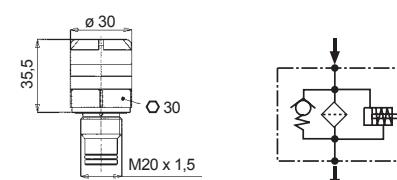
INDICATOR SERIES		DESCRIPTION	FOR RETURN FILTERS SERIES
NBR	FKM	Pressure gauge	
30	-	Scale 0÷6 bar (0÷600 kPa)	RA - RB - RC - RF - RH

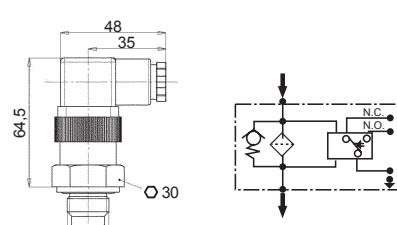
NBR	FKM	Pressure gauge	
32	-	Scale 0÷6 bar (0÷600 kPa)	RA - RB - RC - RF - RH

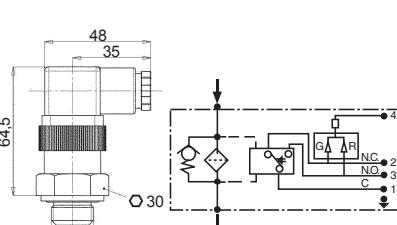
NBR	FKM	Pressure gauge stainless steel, glycerine filled	
039.0178.1	-	Scale 0÷6 bar (0÷600 kPa)	RA - RB - RC - RF - RH

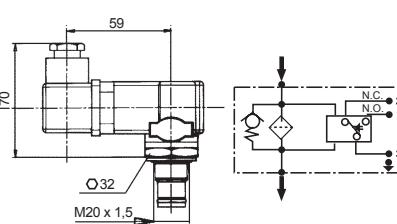
NBR	FKM	Pressure gauge stainless steel, glycerine filled	
039.0183.1	-	Scale 0÷6 bar (0÷600 kPa)	RA - RB - RC - RF - RH

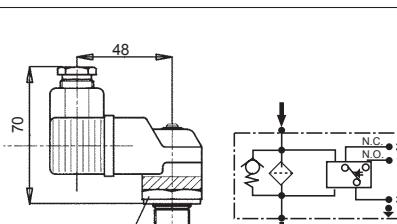
NBR	FKM	Pressure switch	
P1	-	Setting 1,5 bar (150 kPa) - SPDT	RA - RB - RC - RH
P2	-	Setting 3 bar (300 kPa) - SPDT	RF - W execution
P4	-	Setting 1,3 bar (130 kPa) - SPDT	RF
P6	-	Setting 2 bar (200 kPa) - SPDT	RB
		SPDT, Max voltage 250V - 50 Hz - Max current 6 A resistive, 1 A inductive - Protection IP65 connector DIN 43650	ATEX 3 GD EEx e T6

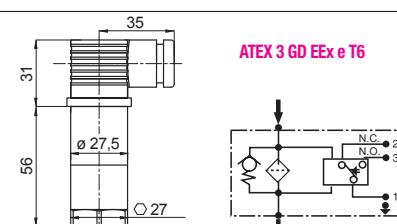
INDICATOR SERIES		DESCRIPTION	FOR RETURN FILTERS SERIES
NBR	FKM	 Differential VISUAL indicators	
5B	AB	Setting 1,3 bar (130 kPa)	RF
5C	AC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators	
6B	CB	Setting 1,3 bar (130 kPa)	RF
6C	CC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators with LED (24 V) for visual indication	
7B	EB	Setting 1,3 bar (130 kPa)	RF
7C	EC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators with THERMOSTAT 30° C	
T0	DB	Setting 1,3 bar (130 kPa)	RF
T1	DC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential VISUAL ELECTRICAL indicators	
70	E0	Setting 1,3 bar (130 kPa)	RF
71	E1	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm 

NBR	FKM	 Differential ELECTRICAL indicators ATEX	
008.0239.2	-	Setting 1,3 bar (130 kPa)	RF
008.0234.2	-	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	Recommended tightening torque 90 Nm  <b>ATEX 3 GD EEx e T6</b>

## INDICATORS FOR OFF-LINE FILTERS



INDICATOR SERIES		DESCRIPTION	FOR RETURN OFF-LINE SERIES
NBR	FKM		Differential VISUAL indicators
5B	AB	Setting 1,3 bar (130 kPa)	OF - UOW
			<p>Recommended tightening torque 90 Nm</p>
NBR	FKM		Differential ELECTRICAL indicators
6B	CB	Setting 1,3 bar (130 kPa)	OF - UOW
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively. C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	<p>Recommended tightening torque 90 Nm</p>
NBR	FKM		Differential ELECTRICAL indicators with LED (24 V) for visual indication
7B	EB	Setting 1,3 bar (130 kPa)	OF - UOW
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively. C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	<p>Recommended tightening torque 90 Nm</p>
NBR	FKM		Differential ELECTRICAL indicators with THERMOSTAT 30° C
T0	DB	Setting 1,3 bar (130 kPa)	OF - UOW
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively. C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	<p>Recommended tightening torque 90 Nm</p>
NBR	FKM		Differential VISUAL ELECTRICAL indicators
70	E0	Setting 1,3 bar (130 kPa)	OF - UOW
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively. C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	<p>Recommended tightening torque 90 Nm</p>
NBR	FKM		Differential ELECTRICAL indicators ATEX
008.0239.2	-	Setting 1,3 bar (130 kPa)	OF - UOW
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively. C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650	<p>Recommended tightening torque 90 Nm</p> <p>ATEX 3 GD EEx e T6</p>

## INDICATORS FOR SUCTION FILTERS



INDICATOR SERIES		DESCRIPTION	FOR SUCTION FILTERS SERIES	
NBR	FKM			
10	-	 <b>Vacuum gauge</b>	SC - SD - SE	
11	-	 <b>Vacuum gauge</b>	SC - SD	
008.0111.2	-	 <b>Vacuum gauge</b> Glycerine filled - 2 Scales	SC - SD - SE	
91	-	 <b>Vacuum switch</b> Setting 0,2 bar (20 kPa) SPDT	SC - SD - SE	<p style="color: magenta;">ATEX 3 GD EEx e T6</p>
		SPDT, Max voltage 250V - 50 Hz - Max current 6 A resistive, 1 A inductive - Protection IP65 connector DIN 43650		



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