

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 depressure 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 removeable 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

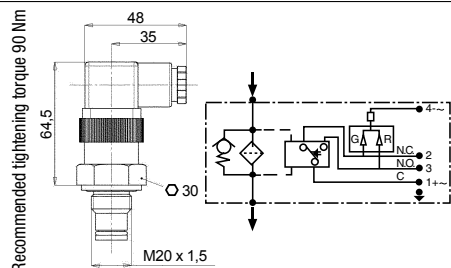
Vacuum gauges
Vacuum switches


INDICATORS FOR PRESSURE FILTERS

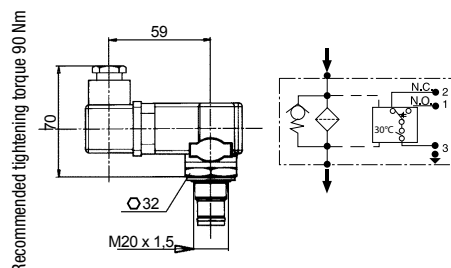



INDICATOR SERIES		DESCRIPTION	FOR PRESSURE FILTERS SERIES
NBR	FKM	Pressure gauge	
31	-	Scale 0÷12 bar (0÷1,2 MPa)	PE - PH
NBR	FKM	Pressure switch	
P1	-	Setting 1,5 bar (150 kPa)	PE - PH
SPDT, Max voltage 250V - 50 Hz - Max current 6 A resistive, 1 A inductive - Protection IP65 connector DIN 43650			
NBR	FKM	Differential VISUAL ELECTRICAL indicator	
N0	S0	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	Differential VISUAL indicator	
U0	W0	Setting 1,3 bar (130 kPa)	for FPE A+, B+
Recommended tightening torque 90 Nm			
NBR	FKM	Differential VISUAL indicators	
5B	AB	Setting 1,3 bar (130 kPa)	PH
5D	AD	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
5E	AE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
5F	AF	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
Recommended tightening torque 90 Nm			
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			

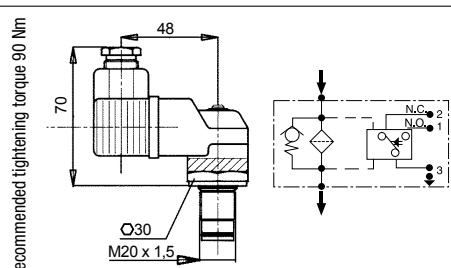
INDICATOR SERIES		DESCRIPTION	FOR PRESSURE FILTERS SERIES
NBR	FKM	 Differential ELECTRICAL indicators with LED (24 V) for visual indication	
7B	EB	Setting 1,3 bar (130 kPa)	PH
7D	ED	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
7E	EE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
7F	EF	Setting 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			




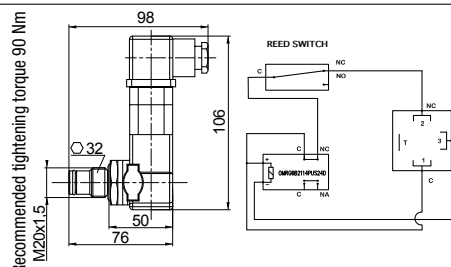
NBR	FKM	 Differential ELECTRICAL indicators with THERMOSTAT 30° C	
T0	DB	Setting 1,3 bar (130 kPa)	PH
T2	DE	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
T3	DF	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
T6	DD	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
SPDT differential switch. 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			




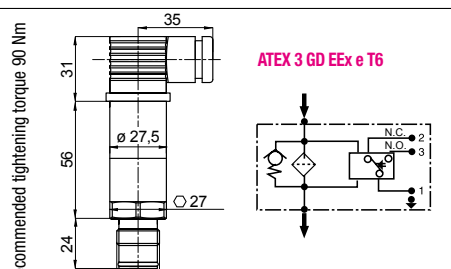
NBR	FKM	 Differential VISUAL ELECTRICAL indicators	
70	E0	Setting 1,3 bar (130 kPa)	PH
76	E6	Setting 2,5 bar (250 kPa)	(PA - PB - PD - PL - PM)
72	E2	Setting 5 bar (500 kPa)	PA - PB - PC - PD - PL - PM
73	E3	Setting 8 bar (800 kPa)	PA - PB - PC - PD - PL - PM
SPDT differential switch. C.C. 14 - 30 V: > 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			



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			



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			



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	

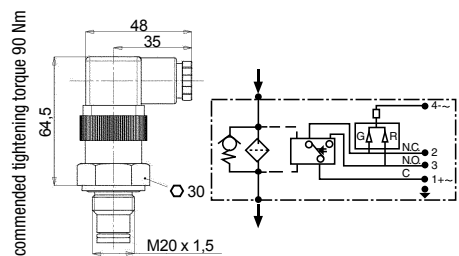
NBR	FKM	Pressure gauge		
32	-	Scale 0÷6 bar (0÷600 kPa)	RA - RB - RC - RF - RH	


NBR	FKM	Pressure 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				

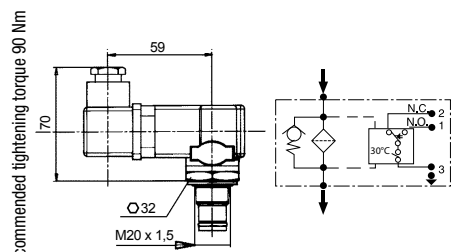
NBR	FKM	Differential VISUAL indicators		
5B	AB	Setting 1,3 bar (130 kPa)	RF	
5C	AC	Setting 2 bar (200 kPa)	RD	
SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650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

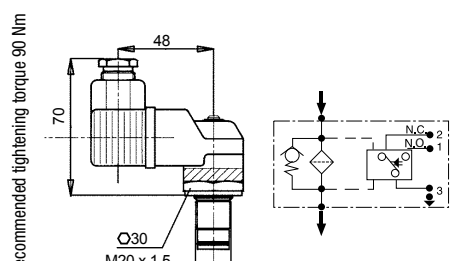
INDICATOR SERIES		DESCRIPTION	FOR RETURN FILTERS SERIES
NBR	FKM	 Differential ELECTRICAL indicators with LED (24 V) for visual indication	
7B	EB	Setting 1,3 bar (130 kPa)	RF
7C	EC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively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




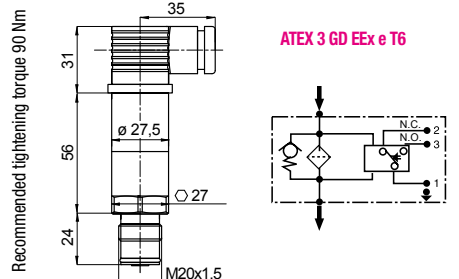
NBR	FKM	 Differential ELECTRICAL indicators with THERMOSTAT 30° C	
T0	DB	Setting 1,3 bar (130 kPa)	RF
T1	DC	Setting 2 bar (200 kPa)	RD
		SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively C.A. 125-250 V: > max resistive or inductive load 1 A - Protection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



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	



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	




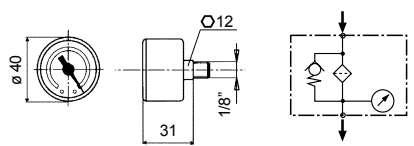

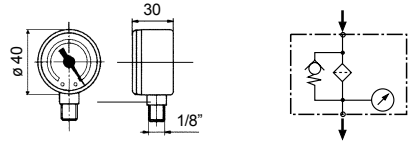

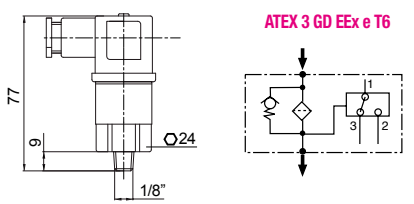
INDICATORS FOR OFF-LINE FILTERS



INDICATOR SERIES		DESCRIPTION	FOR RETURN OFF-LINE SERIES
NBR	FKM	Differential VISUAL indicators	
5B	AB	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
NBR	FKM	Differential ELECTRICAL indicators	
6B	CB	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
		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	Differential ELECTRICAL indicators with LED (24 V) for visual indication	
7B	EB	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
		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	Differential ELECTRICAL indicators with THERMOSTAT 30° C	
T0	DB	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
		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	Differential VISUAL ELECTRICAL indicators	
70	E0	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
		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	Differential ELECTRICAL indicators ATEX	
008.0239.2	-	Setting 1,3 bar (130 kPa)	OF - UOW Recommended tightening torque 90 Nm
		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	

INDICATORS FOR SUCTION FILTERS



INDICATOR SERIES		DESCRIPTION	FOR SUCTION FILTERS SERIES	
NBR	FKM			
10	-	 Vacuum gauge	SC - SD - SE	
11	-	 Vacuum gauge	SC - SD	
91	-	 Vacuum switch Setting 0,2 bar (20 kPa) SPDT	SC - SD - SE	
		SPDT, Max voltage 250V - 50 Hz - Max current 6 A resistive, 1 A inductive - Protection IP65 connector DIN 43650		



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INDICATORS - EN - 02/2016