





CLOGGING INDICATORS

Visual and electrical indicators

INDICATORS FOR APPLICATION ON SUCTION LINE

NORMALLY USED ON FS7 / FA1 series (suction line)

The clogging indicator registers the pressure downstream the filter element:

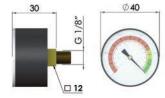
- in the VISUAL indicator the red area shows the need for element replacement.
- in the ELECTRIC indicator an electrical switch is activated.

CODE DIMENSIONS SYMBOL SETTING

67) 10 Nm

10 Nm

MPS formerly S1





VACUUM GAUGE

0÷-1 bar

PDS formerly S13





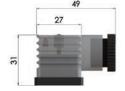
VACUUM SWITCH

-0,2 bar

- DC: 30 V 4 A inductive, 3 A resistive
- AC: 250 V 3 A inductive, 2 A resistive
- Protection: IP65, connector DIN43650
- SPDT contacts

OPTIONAL CONNECTOR for \$13

LC24





The LC24 connector can replace the standard black connector of the "\$13" indicator (N.B. supplied separately).

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.

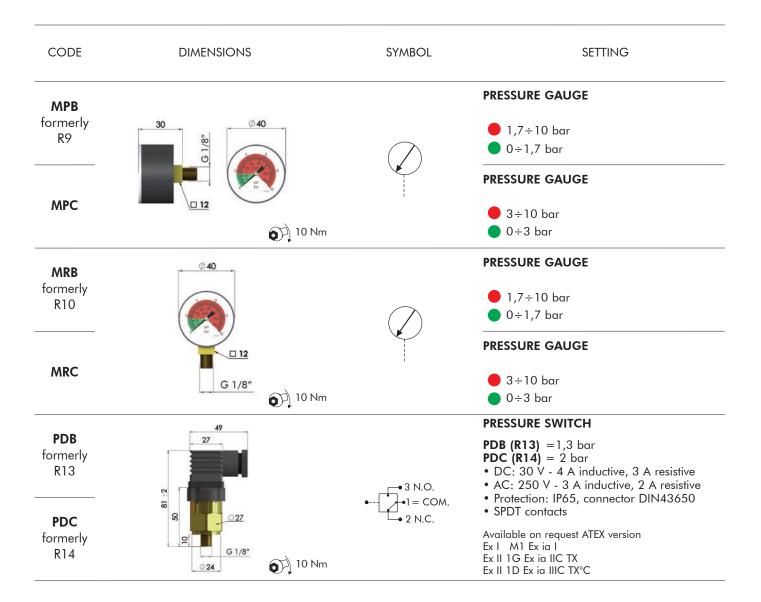


INDICATORS FOR APPLICATION ON RETURN LINE

NORMALLY USED ON FA1 (return line) / FA2 / FR1 / FR6 / FCR7

The clogging indicator registers the pressure upstream the filter element:

- in the VISUAL indicator the red area shows the need for element replacement.
- in the ELECTRIC indicator an electrical switch is activated.



OPTIONAL CONNECTOR for PDB PDC

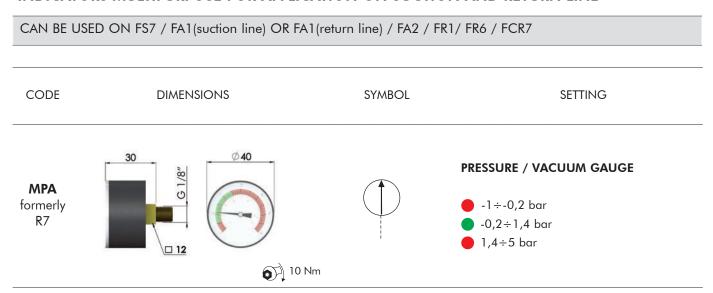


The LC24 connector can replace the standard black connector of the "PDB / PDC" indicator (N.B. supplied separately).

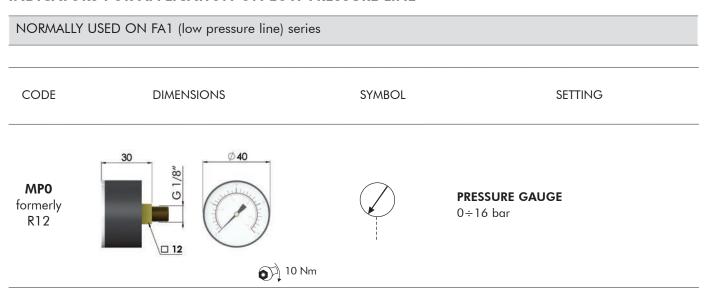
Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.



INDICATORS MULTIPURPOSE FOR APPLICATION ON SUCTION AND RETURN LINE



INDICATORS FOR APPLICATION ON LOW PRESSURE LINE





DIFFERENTIAL CLOGGING INDICATORS

V02 / E02 NORMALLY USED ON F040 series

V05 / E05 NORMALLY USED ON F040 / F100 / F160 / F280 / F420 series

V08 / E08 NORMALLY USED ON F100/ F160 / F280 / F420 series

VO2

V05

V08

DIFFERENTIAL VISUAL 2,7 bar

DIFFERENTIAL VISUAL 5 bar

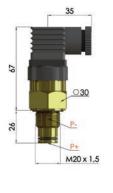
DIFFERENTIAL VISUAL 8 bar

CODE DIMENSIONS SYMBOL SETTING

E02

E05

E08



50 Nm

DIFFERENTIAL ELECTRIC

2,7 bar

DIFFERENTIAL ELECTRIC

5 bar

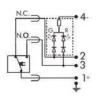
- Electric plug connection as per DIN 43650
- Protection:
- IP65 acc. to DIN 40050Max current: 5A resistive
- 1A inductive
- Max voltage: 250V AC - 30V DC

DIFFERENTIAL ELECTRIC

8 bar

OPTIONAL CONNECTOR for E serie

LC24 5



The LC24 connector can replace the standard black connector of the "E" indicator (N.B.supplied separately).

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.

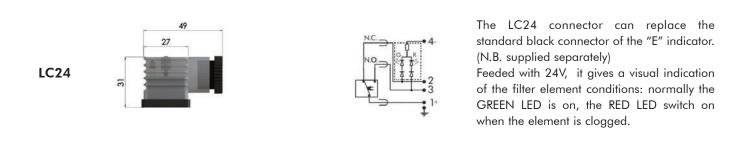


DIFFERENTIAL CLOGGING INDICATORS

EX5 / VX5 NORMALLY USED ON FD3 / FDM series EX8 / VX8 NORMALLY USED ON FDM series

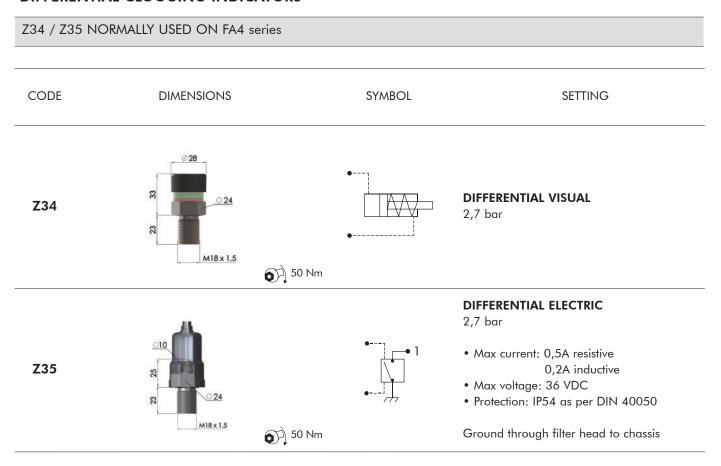
EXO / VXO NORVIALLI USED ON FDM series				
CODE	DIMENSIONS	SYMBOL		SETTING
VX5	M20 x 1.5	•	DIFFERENTIAL VISUAL 5 bar	
VX8		0 Nm	DIFFERENTIAL VISUAL 8 bar	
CODE	DIMENSIONS	SYMBOL	SETTING	
EX5	35 030 M20 x 1.5 50 Nm	•, N.C. 2	DIFFERENTIAL ELECTRIC 5 bar	 Electric plug connection as per DIN 43650 Protection: IP65 acc. to DIN 40050 Max current: 5A resistive 1A inductive Max voltage: 250V AC - 30V DC
EX8		0 Nm	DIFFERENTIAL ELECTRIC 8 bar	

OPTIONAL CONNECTOR for E serie





DIFFERENTIAL CLOGGING INDICATORS



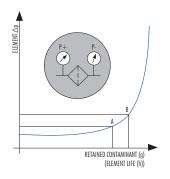


USER INFORMATION

The **Pressure indicator** measures the pressure in one point only:

- -for suction application it must be located downstream the filter element (P-)
- -for return application it must be located upstream the filter element (P+)

The **Differential indicator** measures the Dp between upstream and downstream of the filter element, i.e. it is the ideal indicator for in line application.



The **Pressure Drop** (Dp = differential pressure) through the filter increases during the system operation due to the contaminant retained by the filter element.

The filter element must be replaced when the indicator shows an alarm and before the Dp reaches the by-pass set value (i.e. the set value A of the clogging indicator must always be lower that the set value B of the by-pass valve).

WARNING: in **cold start** conditions a false alarm can be caused by higher oil viscosity due to low temperature; the indicator alarm must be considered at normal working temperature only.

OPTIONAL VERSIONS

<u>Subject to MOQ our differential indicators can be supplied in special versions like ATEX, different connectors, two alarm levels, etc.: pls contact our Customer Service for further information.</u>



CLOGGING INDICATORS