





CLOGGING INDICATORS

Visual and electrical indicators

INDICATORS FOR APPLICATION ON SUCTION LINE

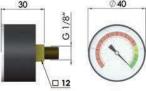
NORMALLY USED ON FS7 / FA1 series (suction line)

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

S1





10 Nm

6 → 10 Nm

VACUUM GAUGE

0÷-1 bar

S13



3 N.O. 1 = COM 2 N.C.

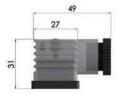
VACUUM SWITCH

-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 S13

LC24





The LC24 connector can replace the standard black connector of the "S13" 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.

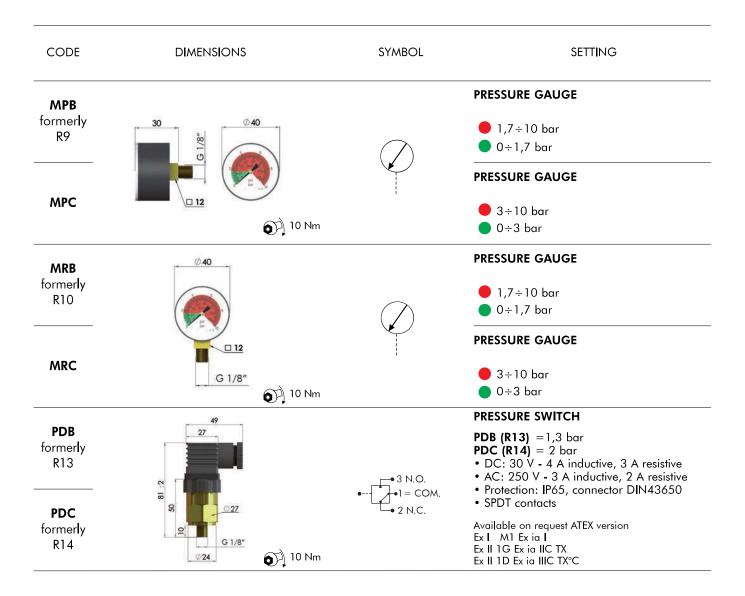


INDICATORS FOR APPLICATION ON RETURN LINE

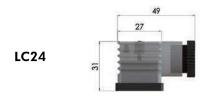
NORMALLY USED ON FA1 (return line) / FA2 / FR1 / FR6 / FCR7

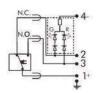
The clogging indicator registers the pressure upstream the filter element:

- 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



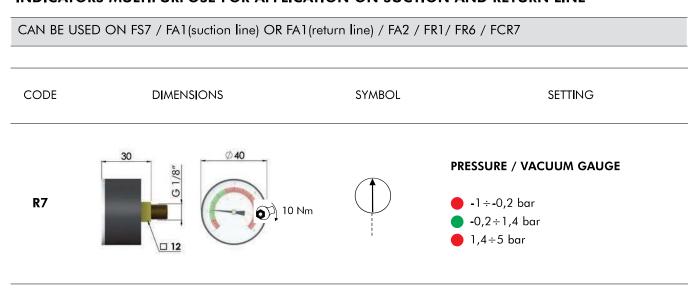


The LC24 connector can replace the standard black connector of the "PDB / PDC" indicator (N.B. supplied separately).

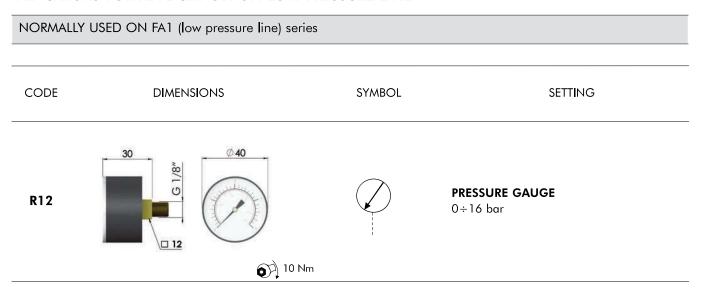
Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.



INDICATORS MULTIPURPOSE FOR APPLICATION ON SUCTION AND RETURN LINE



INDICATORS FOR APPLICATION ON LOW PRESSURE LINE





V05

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

M20 x 1,5

CODE **DIMENSIONS** SYMBOL **SETTING**

DIFFERENTIAL VISUAL V02 2,7 bar

DIFFERENTIAL VISUAL 5 bar

DIFFERENTIAL VISUAL V08 8 bar

⊙ 50 Nm

CODE **DIMENSIONS** SYMBOL **SETTING**

DIFFERENTIAL E02 ELECTRIC

2,7 bar Electric plug connection as per DIN 43650 • Protection:

DIFFERENTIAL IP65 acc. to DIN 40050 **E05 ELECTRIC** • Max current: 5A resistive 1A inductive

• Max voltage: 250V AC - 30V DC

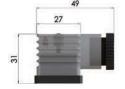
5 bar

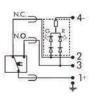
M20 x 1,5 **DIFFERENTIAL E08 ELECTRIC** 8 bar

6 50 Nm

OPTIONAL CONNECTOR for E serie

LC24





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.

8 bar



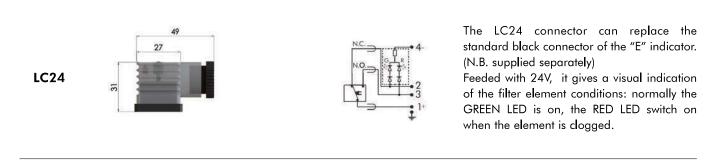
DIFFERENTIAL CLOGGING INDICATORS

EX5 / VX5 NORMALLY USED ON FD3 / FDM series EX8 / VX8 NORMALLY USED ON FDM series CODE **DIMENSIONS** SYMBOL **SETTING DIFFERENTIAL VISUAL** VX5 5 bar **DIFFERENTIAL VISUAL** VX8 8 bar M20 x 1,5 **⊙** 50 Nm **DIMENSIONS** CODE SYMBOL **SETTING** • Electric plug connection **DIFFERENTIAL** as per DIN 43650 EX5 **ELECTRIC** • Protection: 5 bar IP65 acc. to DIN 40050 Max current: 5A resistive 1A inductive **DIFFERENTIAL** • Max voltage: EX8 **ELECTRIC**

OPTIONAL CONNECTOR for E serie

M20 x 1,5

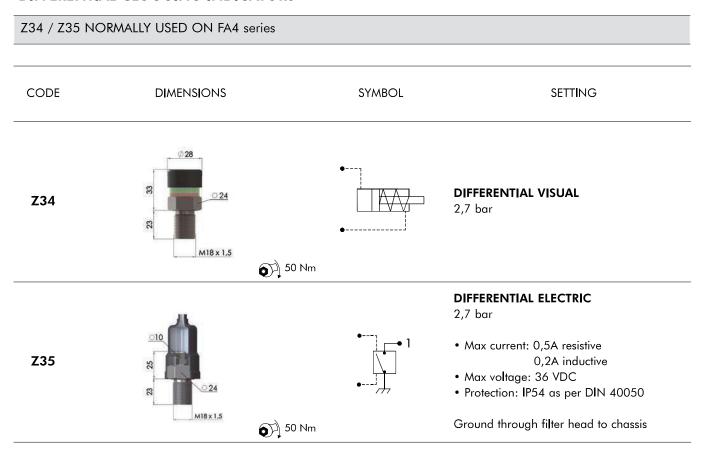
50 Nm



250V AC - 30V DC



DIFFERENTIAL CLOGGING INDICATORS



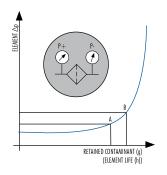


USER INFORMATION

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>