

Product Data Sheet

Differential Pressure Gauge FAD 02-03/.. (C)

Version: 1.8.0

Author: Manfred Loy

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Field of application

The FAD02 and FAD03 pressure gauges are used for measuring differential pressures in the medium to the high pressure range (up to 350 bar).

The differential pressure gauges are separate units (external mounting) and mainly used for monitoring the differential pressure of filter elements in conjunction with the FCA 50 bar and FMA/FMS housing series. Nevertheless, according to their specifications the differential pressure gauges can be used for differential pressure monitoring with other equipment at any time.

Features

The FAD02 and FAD03 differential pressure gauges measure differential pressures from 0.2 bar to 1 bar at operating pressures up to 350 bar. Differential pressure gauges of the FAD series mainly consist of the actual measuring and indication device including the mounting parts required for the specific mounting location. The FAD02 and FAD03 differential pressure gauges have the same basic device but differ with regard to the mounting parts designed for different pressure levels. Both devices have a piston measuring system consisting of a magnetic piston spring system in an aluminium housing block. The magnetic piston that is pressed against the spring at varying differential pressures changes its position depending on the differential pressure and allows for contact-free movement of the pointer unit also provided with a magnetic system or for contact-free switching of a reed contact (option C).

The FAD02 and the FAD03 both have a display on either side which means that they can always be read independent of the mounting situation or the direction of flow.

The FAD02 series is suitable for operating pressures up to 50 bar. It is provided with an adapter block including the mounting material for installation to the FCA (FAD02/50-FCA) or the FWS (FAD02/50-FWS) filter housings. The FAD03 series is suitable for operating pressures up to 350 bar and can directly be installed to the FMA/FMS filter housings (FAD03/350-FM). In addition, all the versions mentioned are available with a potential free alarm contact (e.g. FAD02/50C-FCA).



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Basic data

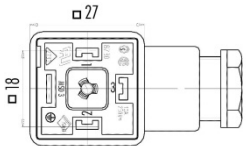
| Model | Nominal volume flow | Max. operating pressure | Min./Max. operating temperature |
|-------|---------------------|-------------------------|---------------------------------|
| FAD02 | --- | 50 bar | +2°C - 80°C |
| FAD03 | --- | 350 bar | +2°C - 80°C |

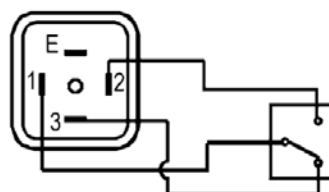
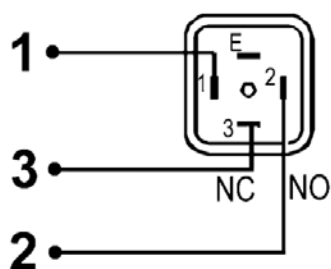
Maintenance rules

| | |
|---------------|-----|
| FAD02 - FAD03 | --- |
|---------------|-----|

Product specific data

| | |
|--|--------------------------|
| Differential pressure gauge | |
| Display | 2 x 63 mm |
| Class of protection of display housing | IP65 (EN 60529) |
| Unit on display | bar |
| Indication range | 0 bar - 1 bar |
| Indication accuracy | ± 5% of full-scale value |

| | |
|------------------------------|---|
| Potential free alarm contact | |
| Contacts | NO contact / NC contact |
| Type of contact | Reed |
| Max. switching voltage (rms) | 30 V AC/DC |
| Max. switching current (rms) | 0.3 A AC/DC |
| Max. switching power (rms) | 3 VA |
| Connector | solenoid plug type A - 3+PE DIN 43650-A  |



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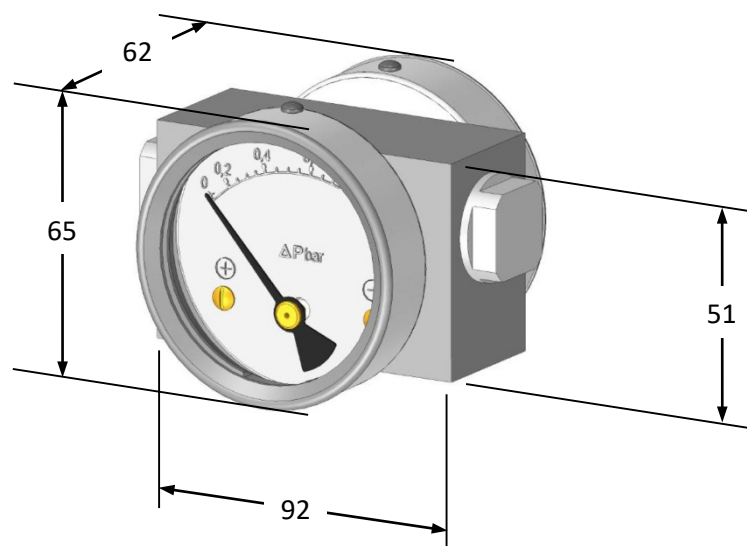
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Materials

| | |
|-------------------|---|
| Component | |
| Connection block | Aluminium |
| Measuring element | Stainless steel 1.4310 and 1.4401, strontium ferrite |
| Display housing | Stainless steel 1.4301 with rubber sealing ring, instrument glass |
| Sealing materials | FKM (Viton) |

Connection, dimensions and weight

| Model | Connection (bottom) | Height | Width | Depth | Weight |
|---------------|---------------------|------------|-------|-------|--------|
| FAD02 - FAD03 | 2 x G 1/4 | 65 (51) mm | 92 mm | 62 mm | 0.5 kg |



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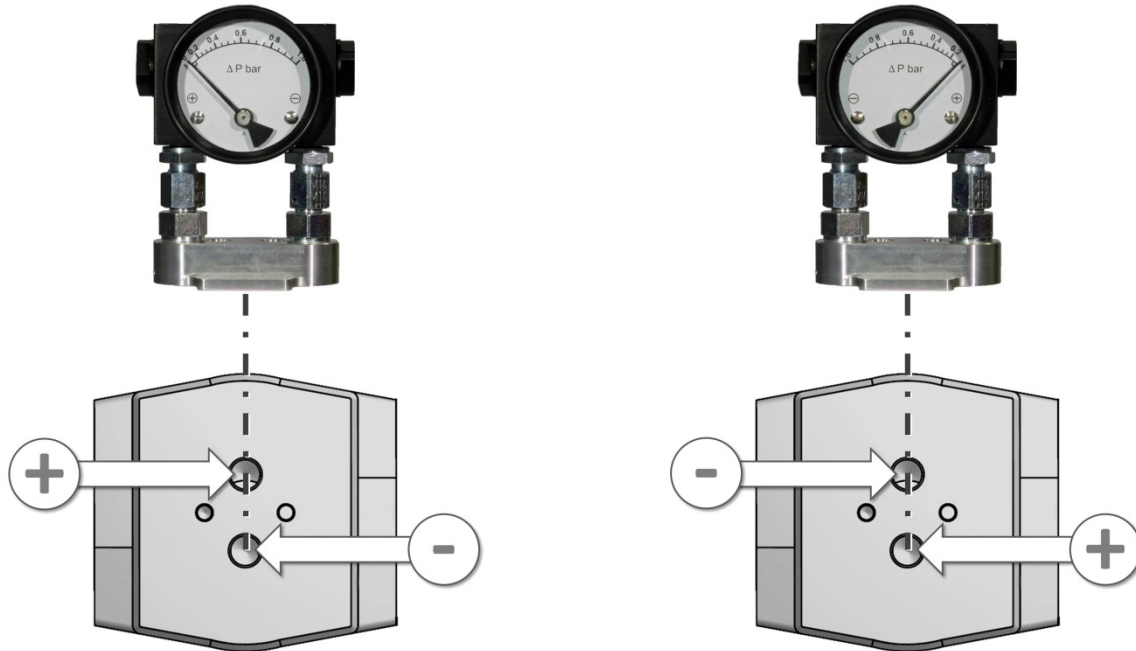
Differential Pressure Gauge FAD 02-03/.. (C)

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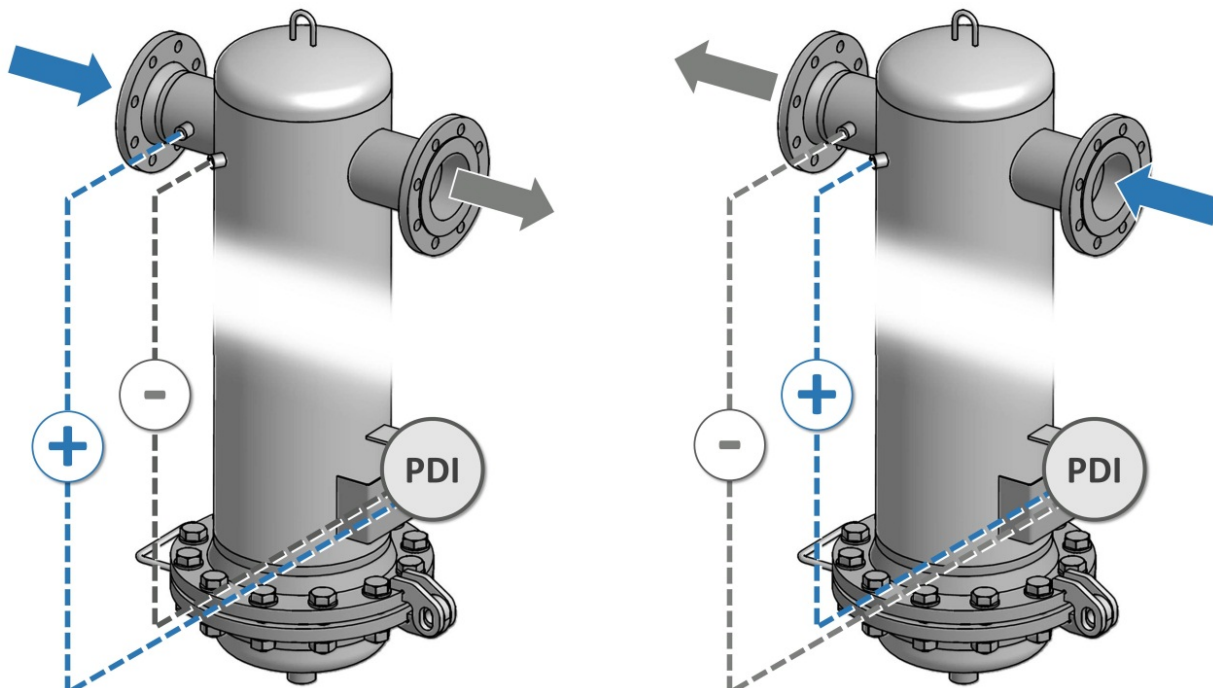
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FAD02(C) mounted on series FCA filter housings



FAD02(C) connected to FWS series filter housings



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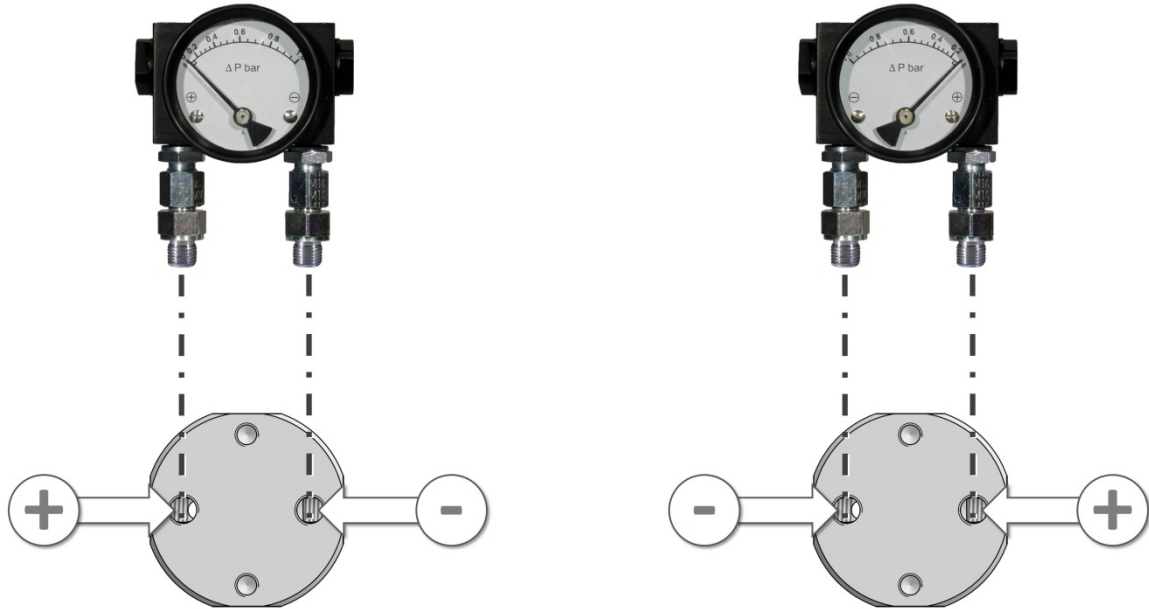
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FAD03(C) mounted on series FMA / FMS filter housings



Classification according to Pressure Equipment Directive 2014/68/EU for group 2 fluids

| Model | Volume | Category |
|---------------|---------------|----------|
| FAD02 - FAD03 | < 0.01 litres | --- |

Other Directives

| Model | |
|---------------|-----|
| FAD02 - FAD03 | --- |

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Models



FAD02/50-FCA



FAD02/50C-FCA



FAD02/50-FWS



FAD02/50C-FWS



FAD03/350-FM



FAD03/350C-FM

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Notes

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Notes