

Product Data Sheet

Oil Indicator FAI-OI..

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Field of application

The FAI-OI.. oil indicator is used for measuring the approximate oil content (total oil content) of compressed air at pressure levels up to 16 bar.

The FAI-OI.. oil indicator is a separate unit (external mounting) and adapted to the FCA (FAI01OI-B06) and FWS (FAI02OI-B08) housing series as well as DSS (FAI02OI-B06) oil vapour adsorber series.

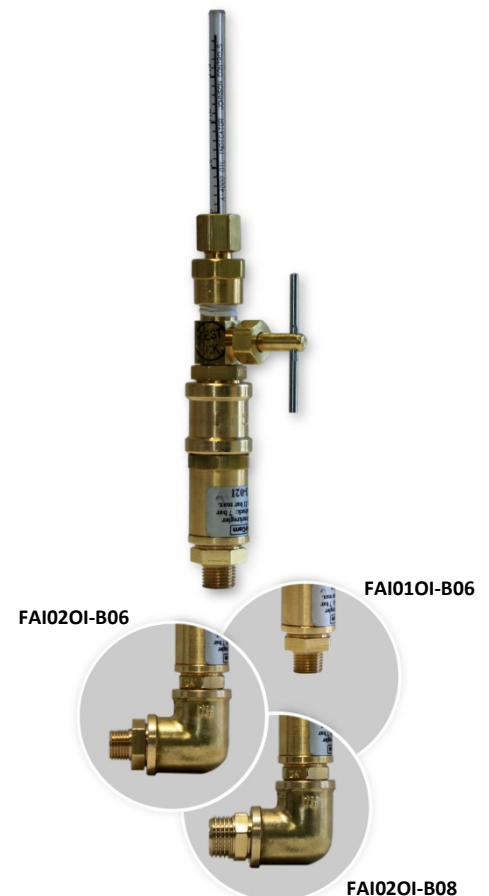
The oil indicator is mainly used for monitoring the oil content at the outlet of activated carbon filters and activated carbon towers. Nevertheless, according to its specifications the oil indicator can be used for oil content monitoring with other equipment at any time.

Features

The FAI-OI.. oil indicator is used for periodical oil content measurements of compressed air. Measurements can be carried out several times and in regular intervals until the operated indicator tube is fully used up.

The FAI-OI.. oil indicators consist of an indicator tube which is providing a scale and is fastened by a screwed connection, a needle valve, a pressure regulator with fixed settings (7 bar) and, depending on the model, the according mounting parts for a direct connection to the according filter housing or adsorber vessel (see Field of application).

Opening the needle valve causes a defined amount of air flowing through the indicator tube. The white indicator granulate inside the tube attracts suspended oil from the compressed air while the oil activates a red colouring agent turning the granulate colour into red. This process moves from the bottom of the tube to the top while the amount of discolouration corresponds to the oil content entering the tube. For approximate determination of the oil content the duration of flow of compressed air through the indicator tube and the number of discoloured scales in that time period needs to be known. The manual offers correlation tables to determine the oil content based on these two figures.



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Specifications subject to change without notice

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Latest version see www.fstweb.de

Basic data

Model	Nominal volume flow	Max. operating pressure	Min./Max. operating temperature
FAI-OI	---	16 bar	+2°C - 50°C

Maintenance rules

FAI-OI	Replacement of indicator tube when used up (SP-FAI/IOP02)
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Product specific data

Indication/Determination range	0.01 - 30 mg/m ³ (correlation table for 7 bar: 0.01 - 4.3 mg/m ³)
Pressure regulator	7 bar
Pressure range	4 - 16 bar (correlation tables 4-7 bar)

Materials

Component	
Indicator tube	Plastic, indicator granulate, stainless steel mesh
Mounting parts, fittings	Brass
Sealing materials	NBR (Perbunan), Teflon

Connection, dimensions and weight

Model	Connection	Height	Width	Depth	Weight
FAI01OI-B06	G 1/8	168 mm	19 mm	39 mm	0.13 kg
FAI02OI-B06	G 1/8	185 mm	19 mm	57 mm	0.18 kg
FAI02OI-B08	G 1/4	185 mm	19 mm	57 mm	0.18 kg

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

Model	Volume	Category
FAI..OI	< 0.1 litres	---

Other Directives

Model	
FAI..OI	---