Air breather filter
Pi 0201

1. Features

Filter for ventilating and bleeding mobile and stationary hydraulic tanks

The air breather filter Pi 0201 with preloaded valves are used for tanks which are under excess pressure or partial vacuum alternately. The air can flow in and out in a defined manner. The preloaded valve for inflowing air ensures that a certain partial vacuum is maintained in the container or tank. The air is delayed in flowing in from the outside, the foaming effect is reduced. The preloaded valve for the outflowing air has been designed to keep a certain excess pressure in the tank for a short time. This reduces the number of air exchanges with the environment. As a result, the service life of the filter cartridge is significantly increased. The excess pressure in the tank has a positive impact on the performance of the downstream pumps, thus enhancing the service life and efficiency of the pumps. The Pi 0201 is also available in the version with Mol-elements. The Mol-elements prevent the oil mist from emerging. This can be produced by the fast two-way volume flows of the oil. With outflowing air, the oil mist is precipitated in the element. With inflowing air, the oil mist flows from the element back into the tank.

- Compact, sturdy and quickly changeable disposable plastic filter
- Different filter materials for optimum adaptation to customer requirements
- Long service lives thanks to high dirt holding capacity
- Optional separation of oil mist using FGC Mol-elements.
- Filter version with inlet and outlet valve available
- Versions with different connection threads available
- Individual marking possible
- Ergonomic design
- Worldwide distribution
2. Performance curves complete filter

\[ y = \text{differential pressure} \ \Delta p \ [\text{mbar}] \]
\[ x = \text{flow rate} \ V \ [\text{l/min}] \]

3. Curve showing degree of separation

\[ x = \text{particle size} \ n \ [\mu \text{m}] \]
\[ y = \text{degree of separation} \ \eta \ [%] \]
4. Dimensions

*1 = version G ¾ with dipstick
*2 = version G ¾ with view inlet and outlet valve, Mol-element
L = length of dipstick optional

5. Technical data

Temperature range: -30 °C to +100 °C
(Other temperature ranges on request)

Housing material:
- Cover: glass fibre reinforced polyamide
- Lower part: glass fibre reinforced polyamide
- Valve plate: glass fibre reinforced polyamide

Components:
- Spring: spring steel
- Oil dipstick: stainless steel

Sealing material: NBR

Filter cartridge material:
- Sm-L: glass fibre
- Mic: cellulose
- Mol: coalescence material
- MBL: meltblown

Valve opening pressure:
- Inlet: 0.03 bar
- Outlet: 0.20 bar
- 0.35 bar
- 0.50 bar
- 0.70 bar
- 1.00 bar

Connection thread:
- G 3/4
- M42x2 *
- M30x1.5 *
- NPT ¾ *

Connection flange:
- DIN *

Resistance:
- All HLP and HETG hydraulic oils **

* on request
** other oil types on request

We would like to point out that all values indicated are average values which do not always occur in specific cases of application. Our products are continually being further developed. Values, dimensions and weights can change as a result of this. Our specialist department would be pleased to offer you advice.

We recommend you contact us concerning applications for our filters in areas governed by the EU Directive 94/9 EC (ATEX 95). The standard version can be used for liquids based on mineral oil (corresponding to the fluids in Group 2 of Directive 97/23 EC Article 9). Please contact us if you intend using other media.

Subject to technical alteration without notice.
6. Type number key

**Type number key with selection example for Pi 0201/Mic/0065/Z3/VV-0.2/P210/E**

**Series**

**Pi 0201**

**Filter medium**

- Sm-L: glass fibre
- Mic: cellulose
- Mol: coalescence material
- MBL: meltblown

**Air flow rate**

- 0001: 10 l/min
- 0010: 100 l/min
- 0100: 1000 l/min
- 9999: 9999 l/min

**Connection code and dimension**

- Z: inch
- 3: G¾" M22x1.5 NPT ¾"
- 2: 3 hole DIN xxxx

**Valve**

- VV-x.x: Preloaded valve with opening pressure x.x bar

**Optionen**

- Pxxx: dipstick of length xxx mm

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**Order numbers**

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The FGC Pi 0201 series can replace almost all air breather filters from other manufacturers with a screw thread or connection flange in accordance with DIN 24557 without any problem. Please contact us.

Other versions and features on request.

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Filtration Group GmbH
Schleifbachweg 45
D-74613 Öhringen
Phone +49 7941 6466-0
Fax +49 7941 6466-429
fm.de.sales@filtrationgroup.com
www.fluid.filtrationgroup.com
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