# JET Filter (JET) page 1 / 2

STANDARD VERSION

Fully-automatic backwash filter in compact inline-construction.

The cleaning of the filter is carried out with self-medium, without interruption of the filtration process. There are no movable parts installed in the filter. The mounting position is variable.

Due to the inertia of masses in movement of solids with high specific gravity they will not distribute the filter-elements. Backwash speed in the filter-element up to 10 m/s.

|  |  |  |
| --- | --- | --- |
| **Operating conditions** |  | |
| medium |  |  |
| flow rate | m³/h |  |
| working pressure | bar |  |
| filter fineness | µm |  |
| operating temperature | °C |  |
| flushing by | self-medium | |
|  |  | |
| **Design data** |  | |
| main connection flanges acc. to DIN EN 1092 | DN |  |
| design pressure | 10 bar | |
| test pressure | 14,3 bar | |
| pressure loss with clean filter approx. | 0,1 – 0,3 bar | |
| design temperature | 0 - 50 °C | |
| construction and design | PED 2014/68/EU and AD 2000 | |
|  |  | |
| **Technical data** |  | |
| weight empty approx. | kg |  |
| weight filled approx. | kg |  |
| volume | l |  |
|  |  | |
| **Material** |  | |
| filter housing | carbon steel, galvanized | |
| filter element (slotted sieve cylinder) | stainless steel 1.4435 (AISI 316 L) | |
|  |  | |
| **Flushing water quantity** |  | |
| duration of each backwash process | ~ 15 sec | |
| flushing water quantity per each flushing process | l |  |

|  |  |
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| Manufacturer | Dango & Dienenthal Filtertechnik GmbH |
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# Automatic control for JET Filter page 2 / 2

# for filter backwash in intervals

|  |  |  |
| --- | --- | --- |
| **Backwash valve** |  | |
| butterfly valve | DN | butterfly valve |
| housing | grey-cast | |
| packing | EPDM | |
| disc and shaft | stainless steel | |
| with electrical drive |  | |
|  |  | |
| **Differential pressure gauging** |  | |
| differential pressure manometer |  | |
| static pressure | bar |  |
| measuring range | bar |  |
| with 2 adjustable micro-switches, with integrated inlet-pressure indicator  incl. cocks + screwings for connection to the differential pressure transmission pipe | | |
|  |  | |
| **Electronic control unit** | for wall-attachment at site | |
| housing | steel plate | |
| protective system | IP 65 | |
| dimensions: width x height x depth | 380 x 600 x 210 mm | |
| working voltage | 400 V, 50 Hz | |
| control voltage | 24 V DC | |
| electrical cabling of all building components incl. polarized plug-type connectors | Length 5 m | |
|  |  | |
| **Filter cleaning effected by** |  | |
| differential pressure adjustable | 0 - 1,6 bar | |
| time-flushing interval adjustable | continuously - 24 hours | |
| flushing time adjustable | continuously - 24 hours | |
|  |  | |
| **Signal exchange with customer** | | |
| with potential free contact in the control cabinet | filter in operation  filter in flushing process (backwash valve opened / closed)  collective fault | |
| starting of flushing process | from the control room | |
| release of flushing process | from the control room | |
|  |  | |
| **Indicator lamp at the control cabinet** | | |
| after response of the collective fault indication the following faults will be indicated at the  control cabinet: | | |
| either | faults in the filter operation | |
| either | faults at the electrical drive | |

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