1. Features

High pressure filter with differential pressure controlled cold-start valve

The filterhead contains a cold-start valve which guarantees under all operating conditions that the hydraulic system is provided only with filtered fluid.

When the differential pressure rises above the opening pressure of the cold-start valve (e.g. due to high cold-start viscosity or due to a not serviced filter element), a partial flow is returned to the tank via the filter heads’ tank connection.

- The system is provided only with filter fluids
- A reduction of the flow rate indicates an outstanding filter element change
- Performance curves as per leaflet Pi 420 respectively Pi 4000
- Worldwide distribution
2. Technical specifications

Design: line mounting filter
Nominal pressure: 400 bar (5690 psi)
Test pressure: 520 bar (7400 psi)
Temperature range: -10 °C to +120 °C
  (other temperature ranges on request)

Bypass setting: \( \Delta p \) 8 bar
Filter head material: GGG
Filter housing material: St
Sealing material: NBR
Maintenance indicator setting: \( \Delta p \) 5 bar

Electrical data of maintenance indicator
Max. voltage: 250 V AC/200 V DC
Max. current: 1 A
Contact load: 70 W
Type of protection: IP 65 when inserted and secured
Contact: normally open/normally closed
Cable connection: M20x1.5

The switching function can be changed by turning the electric upper part by 180° (normally closed contact or normally open contact). The state on delivery is a normally closed contact. By inductivity in the direct current circuit the use of suitable protection circuit should be considered. Further maintenance indicator details and designs are available in the maintenance indicator data sheet.

We draw attention to the fact 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 specialized department will be pleased to offer you advice.

3. Symbols

*1 Tank G½
*2 Cold start valve
VA = Maintenance indicator
In = G1
Out = G1

4. Dimensions

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<th>PI 4000 KV</th>
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