## HYDAD INTERNATIONAL Clogging Indicators for Process Filters

## 1. TECHNICAL SPECIFICATIONS

### 1.1 GENERAL

HYDAC clogging indicators are designed to indicate visually and/or electrically when the filter elements must be cleaned or changed.
The use of clogging indicators guarantees both the operational safety of the system and the efficient utilisation of the filter elements.

### 1.2 SEALS

V (=Viton) or T (=FEP encapsulated)

### 1.3 CONSTRUCTION

Differential pressure indicators are used on all process filters. They react to the pressure differential between the filter inlet and filter outlet which rises as the level of contamination in the element increases.

The simplest fitting of the differential pressure indicator:
G ½" cavity
(to HYDAC works standard HN 28-22)
The differential pressure indicator type V01 is piped up separately.
For duplex filter housings the differential pressure indicators are connected using an adaptor block.


## 2. QUICK SELECTION:

CLOGGING INDICATORS ACCORDING TO FILTER TYPE
Please select from the table the clogging indicator required for your filter.

| Type | Filter types |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | PRFL PRFLD | PRFS PRFSD | $\begin{aligned} & \mathrm{PFL} \\ & \mathrm{PFM} \\ & \mathrm{PFH} \end{aligned}$ | EDF | PMRF PMRFD |
| PVD ..B | $\bullet$ | $\bullet$ | - | $\bullet$ | - |
| PVD ..C | - | - | - | $\bullet$ | $\bullet$ |
| PVD ..D | - | - | - | - | - |
| V01...VZ | - | $\bullet$ | on request |  | $\bullet$ |
| Differential pressure gauge | - | - |  |  | - |

### 1.4 SPECIAL INDICATORS

Electrical ATEX indicators: Optional: electrical indicator for process filters for use in potentially explosive atmospheres subject to the ATEX equipment directive 94/9/EC and the ATEX operator directive 1999/92/EC.

### 1.5 TORQUE VALUES - DIFFERENTIAL

 PRESSURE INDICATORSNote:
The clogging indicators must only be tightened or adjusted on the spanner flats.

- PVD..B.1: SW27
- PVD..C.0: SW30
- PVD..D.0/L...: SW30
max. torque value: 100 Nm


## 3. MODEL CODE

Differential pressure clogging indicator
PVD = clogging indicator
V01 = clogging indicator

Pressure setting

| 0.8 | $=+0.8$ |  |
| :--- | :--- | :--- |
| bar (only for V01 indicator) |  |  |
| 1 | $=+1$ | bar (PVD indicator) |
| 1.5 | $=+1.5$ | bar (PVD indicator) |
| 2 | $=+2$ | bar (all indicators) |
| 3 | $=+3$ | bar (PVD indicator) |
| 4.3 | $=+4.3$ | bar (only for V01 indicator) |
| 5 | $=+5$ | bar (only for PVD indicator) |
| 8 | $=+8$ | bar (only for PVD indicator) |

Type of clogging indicator
B. $\quad=$ visual indicator with automatic reset
C. = electrical indicator
D. = visual/electrical indicator

VZ = visual/analogue indicator with $75 \%$ and $100 \%$ switch contacts

Modification number
$0 \quad=$ all clogging indicators
$1=$ only B. type

Supplementary details (only PVD)
-L24 = light with 24 V
-L48 = light with 48 V
-L110 = light with 110 V

- L220 $=$ light with 220 V

Differential pressure gauge DS11 electrical

| Indication range: | $0-1.6$ bar |
| :--- | :--- |
| Permissible operating pressure: | 25 bar |
| Pressure chamber in aluminium: | order number 639311 |
| Pressure chamber in stainless steel: | order number 639586 |

## 4. SPECIFICATIONS

PVD x B.x


PVD x C.x


PVD x D.x /-L...



## Differential pressure gauge DS11



## NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.


