

STAUFF PRESSURE
FILTERS
VALVES & INDICATORS



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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Product Description (not available for SFZ)

The optional valves are fitted as an insert in the filter head and incorporate the spigot on which the element seals. The valve is selected to suit the filter application.

HVO **Non-bypass standard insert** without any valve function.
Element collapse rating should be higher than the system pressure

HVB **Bypass valve** which allows oil to bypass the element when the differential pressure across the element reaches $6^{+0.5}$ bar / $87^{+7.25}$ PSI. (Other pressure settings available on request). The opening pressure should be higher than the Δp setting of an optional clogging indicator. Low collapse 30 bar / 435 PSI Δp elements are normally used with this valve.

HVR **Reverse flow valve** is used in systems where there is flow in reverse through the filter. It allows reverse flow without backflushing the element but does not filter in the reverse direction. Element collapse rating should be higher than the system pressure.

HVN**Non-return valve**

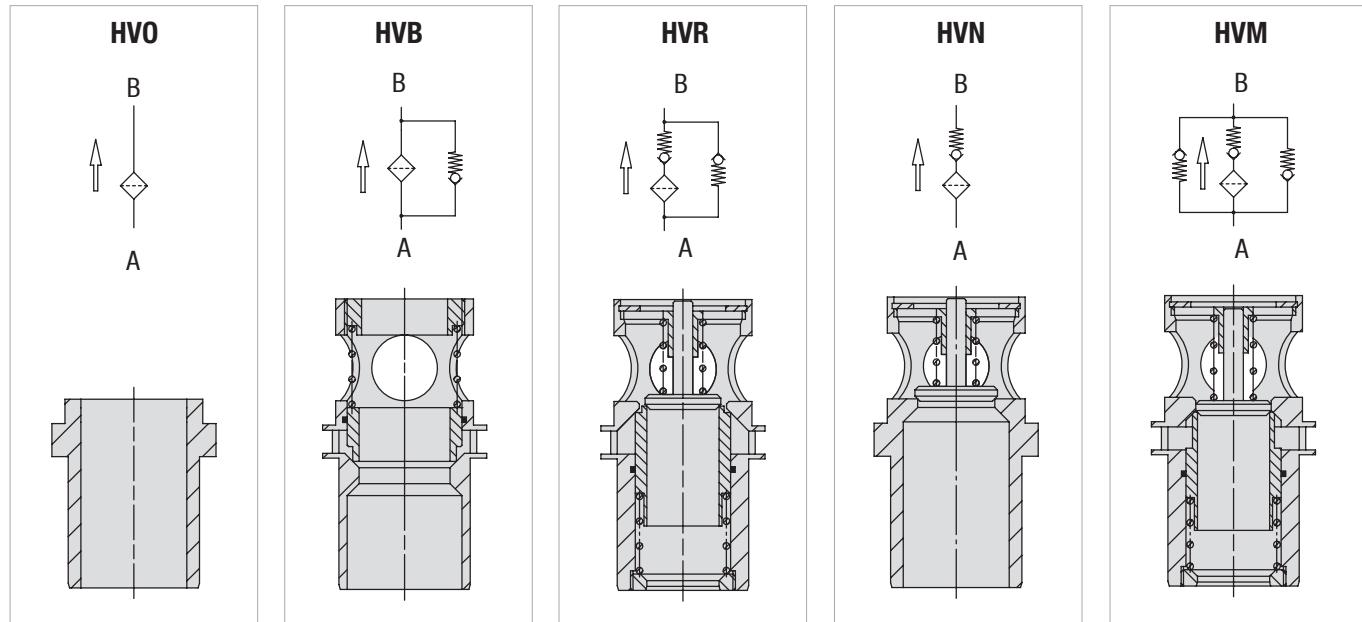
This valve prevents the oil in the delivery line from draining out while the filter is being serviced. Because there is no bypass, the element collapse rating should be higher than system pressure.

HVM**Multi-function valve**

This valve combines the bypass, the reverse flow and the non-return functions in one unit. The by-pass opening pressure is $6^{+0.5}$ bar / $87^{+7.25}$ PSI Δp with other opening pressures available on request. The opening pressure should be higher than the Δp setting of an optional clogging indicator. Low collapse 30 bar / 435 PSI Δp elements are normally used with this valve.

Order Code

VALVE - HVB - 014/030 / X			
①	②	③	④
Type	Valve for Pressure Filters	Filter Group	Design Code
② Valve Type	VALVE	For filter size 014/030 014/030 For filter size 045/070/125 045/070 For filter size 090/160/250/300 090/160	Only for information X
Non-bypass standard insert without any valve	HVO		
Bypass valve	HVB		
Reverse flow valve	HVR		
Non-return valve	HVN		
Multi-function valve	HVM		



Flow characteristics of the valves see page 56.

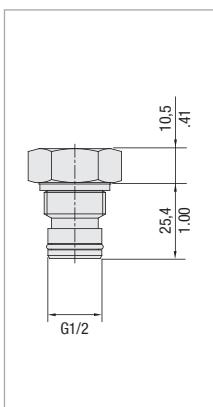


Clogging Indicators

Product Description

STAUFF Pressure Filters have a wide range of clogging indicators available. If no indicator is specified, the port is sealed by a plug (HI-0). The clogging indicators are actuated by the differential pressure (Δp) across the element. The special piston design minimizes the effects of peak pressures in the system. An optional thermal lockout (thermo-stop) is available to prevent false indication under cold start conditions. Fluid temperature have to be at least $+20^\circ\text{C}$ / $+68^\circ\text{F}$ for the indicator to function.

Plug Type HI-0 and visual Clogging Indicators Type HI-A and HI-V



Technical Data

Materials

- Body: Stainless Steel

The visual clogging indicators are available in the following configurations:

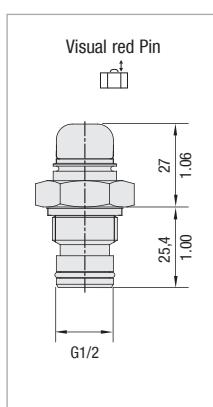
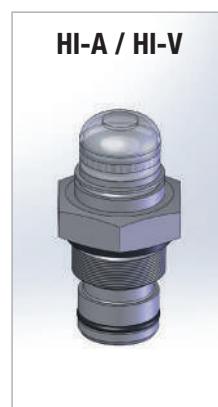
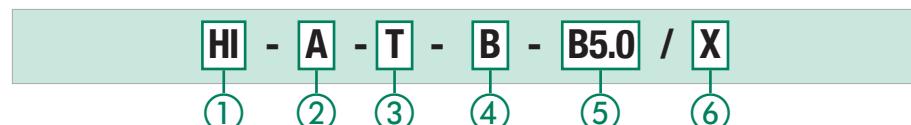
Manual reset:

The indicator continues to display the clogged signal even through the Δp may have fallen. Pressing the plastic cover down will reset the indicator.

Automatic reset:

The clogged signal will disappear when the Δp drops below the setting for the indicator.

Order Code



① Type

Clogging Indicator for Pressure Filters **HI**

② Indicator Type

Plug	O
Visual, automatic reset	A
Visual, manual reset	V

③ Thermostop

Without thermostop	none
With thermostop	T

③ Sealing Material

NBR (Buna-N®)	B
FKM (Viton®)	V
EPDM	E

④ Differential Pressure Setting (only HI-A and HI-V)

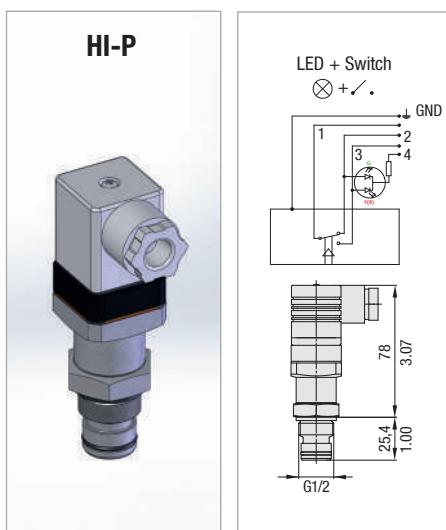
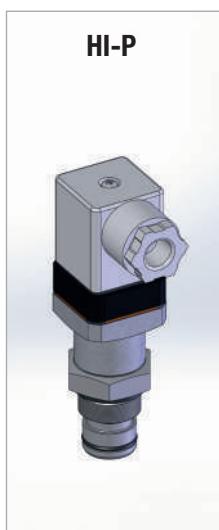
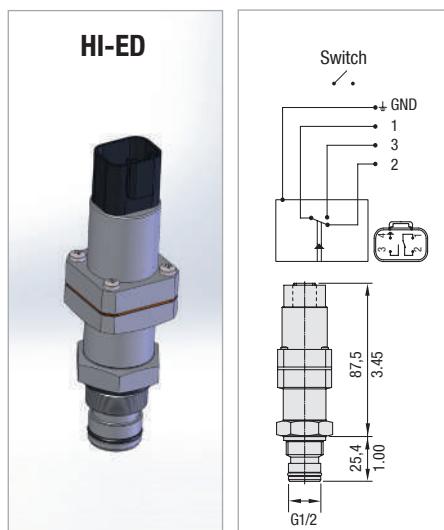
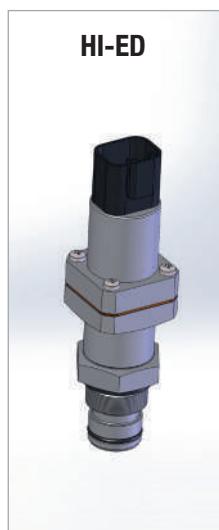
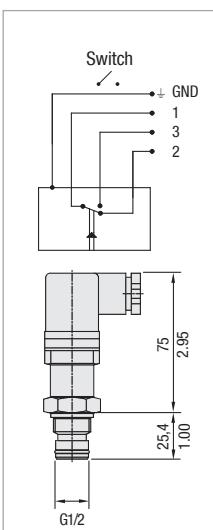
1,72 bar / 25 PSI	B1.7
2,0 bar / 29 PSI	B2.0
2,5 bar / 36.3 PSI	B2.5
3,0 bar / 43.5 PSI	B3.0
5,0 bar / 72.5 PSI (standard option)	B5.0
7,0 bar / 101.5 PSI	B7.0

Note: Bold types identify standard option

⑤ Design Code

Only for information **X**

Electrical and Visual-electrical Clogging Indicators Type HI-E, HI-ED and HI-P



Continued on page 55.

Dimensional drawings: All dimensions in mm/in.



Clogging Indicators

Technical Data

Materials

- Body: Stainless Steel

Alarm outputs

- HI-E: electrical
- HI-ED: electrical
- HI-P: visual-electrical (LED red and green)

Electrical

- Plug according to DIN-EN 175301-803 A (DIN 43650-A).
 - Screwed cable gland PG11
 - Protection rating (DIN 40050) IP65
 - Both NO and NC contacts are available in the switch, rated capacity: see chart below
 - Deutsch plug
- Note: The customer / user carries the responsibility for the electrical connection.

Rated Capacity

Voltage V	Resistive Load A	Inductive Load A
110 V AC	5A	3A
230 V AC	3A	2A
24 V DC	4A	3A
Max. Load		
24 V AC ± 10%	1A	

High voltage peaks occur when inductive loads are switched off. Protective circuitry should be employed to reduce contact burnout.

Order Code

① Type	HI	④ Voltage (only for Code P)	24 V DC	024	⑥ Differential Pressure Setting	1,72 bar / 25 PSI	B1.7
② Indicator Type		110 V AC	110		2,0 bar / 29 PSI	B2.0	
electrical	E	230 V AC	230		2,5 bar / 36,3 PSI	B2.5	
Electrical, Deutsch plug	ED				3,0 bar / 43,5 PSI	B3.0	
Visual-electrical	P				5,0 bar / 72,5 PSI (standard option)	B5.0	
③ Thermostop		⑤ Sealing Material	NBR (Buna-N®)	B	7,0 bar / 101,5 PSI	B7.0	
Without thermostop	none	FKM (Viton®)	V				
With thermostop	T	EPDM	E				
					Note: Bold types identify standard option		
					⑦ Design Code	Only for information	X

Double Visual-electrical Clogging Indicator

Product Description

The differential pressure indicator HI-D024 is a microprocessor controlled pressure switch with two alarm outputs for pre-alarm and shut-off. It is used to monitor the capacity of oil filters in oil-circulating systems. For this purpose, a microprocessor-controlled pressure sensor observes the dynamic pressure in front of the filter element or the differential pressure at the filter element. The pressure increases depending on the cumulative clogging of the filter. To avoid false alarms due to high viscosity during start-up, the device is equipped with a temperature control and time delay function.

Technical Data

Connection Thread

- G1/2

Protection Rating

- IP 67

Alarm outputs (visual)

Range (%FS)	Color	T>T* (Thermo-stop)
0-50	green	
50-75	yellow	
75-100	orange	
100	red (flashing)	
		T<T* (Thermo-stop)
0-100	blue	

Operating Pressure

- Max. 420 bar / 6000 PSI

Operating Voltage

- 24 V DC

Temperature Range

- -20 °C ... +80 °C / -4 °F ... +176 °F

- ready for operation > 20 °C / 68 °F

T= Temperature

T*= 20 °C / 68 °F

△p = 75% (Pin 4)

△p = 100% (Pin 2)

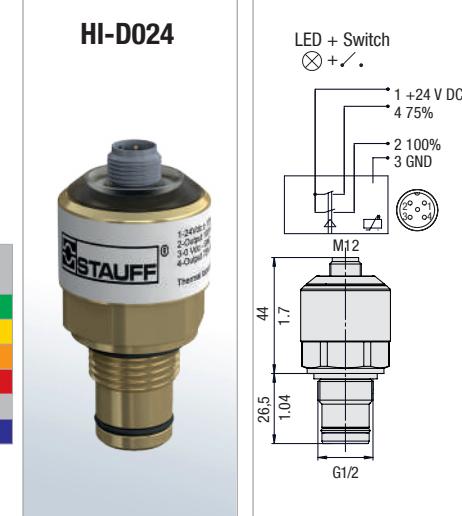
Materials

- Body: Brass

- Sealing Material: NBR (Buna-N®)

△p = 100% (Pin 2)

HI-D024



Order Code

① Type	HI-D-024-B-B5.0
Clogging Indicator for Pressure Filters	HI-D-024-B-B5.0

Dimensional drawings: All dimensions in mm/in.



www.stauff.com/9/en/#55

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