HYDAC INTERNATIONAL

Filter Technology Area / 過濾科技領域

Differential pressure gauge(optional)

壓差錶

HYDAC Process Technology

The differential pressure gauge measures the pressure loss between the contaminated and the clean side.

When at rest, the spring forces on the two sides of the diaphragm are balanced out. A one-sided force arises on the diaphragm that is caused by the differential pressure and that pushes the diaphragm system against the measuring range springs until the spring forces are balanced out. In the event of overload, the diaphragm supports itself against the metallic contact surfaces. A centrally aligned plunger transfers the movement of the diaphragm system to the motion train and the actuation elements of the switches.

The differential pressure trigger point of the back-flushing valve can be set to between 0 and 1.6 bar at the pressure gauge using a screwdriver.

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Technical data	
Measurement range	0 to 1.6 bar
Permitted static operating pressure	25 bar
Max. pressure load	One-sided overpressure-safe up to the nominal pressure of the measuring system, + side and - side, underpressure-safe
Permitted ambient temperature	-10 ˚C to +70˚C
Perm. fluid temperature	70 ˚C
Measurement accuracy	+/- 2.5% of the measuring range end value
Switching hysteresis	Approx. 2.5%
Measuring membrane	Measuring membrane and seals made of Viton®
Approvals	Type-examination tested in accordance with Germanischer Lloyd directives, Certification No. 93823 HH
Technical data	
Load data / contacts	$U_{\sim max}$=250 V AC, I_{max}=5 A, P_{max}= 250 VA $U_{=ma}$x=30 V DC, I_{max}=0.4 A, P_{max}=10 W
Protection class to DIN 40050	IP 55