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### MDAD INTERNATIONAL



#### 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

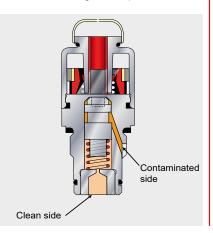
Differential pressure indicators are used on all process filters. They react to the pressure differential between the filter inlet and the filter outlet, which rises as the level of contamination in the element increases.

**Clogging Indicators** for Process Filters

Simplest fitting of the differential pressure indicator: G 1/3" cavity

(acc. 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.



#### 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 indicaTorS

#### note:

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

●PVDB.1:	SW27
•PVDC.0:	SW30
●PVDD.0/L: max.	SW30
torque value:	100 Nm

#### 2. Quick Selection: cloGGinG indicaTorS accordinG To filTer Type

Please select from the table the clogging indicator required for your filter.

Туре	Filter types				
	PRFL PRFLD	PRFS PRFSD	PFM PFH	EDF	PMRF PMRFD
PVDB	•	•	•	•	•
PVDC	•	•	•	•	•
PVDD	•	•	•	•	•
V01VZ	•	•	on request		•
Differential pressure gauge	•	•			•

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	3. Model code			<u>pVd 2 d.</u> 0 / <u>-I24</u>
	differential pressure clogging indicator PVD = Clogging indicator V01 = Clogging indicator	r		
	cracking pressure $0 = +0.8$ bar (only for V01 indicator) $1 = +1$ bar (PVD indicator) $2 = +2$ bar (all clogging indicators) $3 = +3$ bar (PVD indicator) $4 = +4.3$ bar (only for V01 indicator) $5 = +5$ bar (only for PVD indicator) $8 = +8$ bar (only for PVD indicator)			
	Type of clogging indicatorB.= visual indicator with automaticC.= electrical indicatorD.= visual/electrical indicatorVZ = visual/analogue indicator with 75% a			
	Modification number0= all clogging indicators1= only B. type			
Г	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 elect	rical	I	
	Display range:	0 - 1.6 bar		
	Permitted operating pressure:	25 bar		
	Pressure chamber in aluminium:	Order no. 639311		
	Pressure chamber in stainless steel:	Order no. 639586		
	Other versions available on request			
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#### 4. SpecificaTionS

### <u>pVd x</u>B.x

	Type of indication	Visual, red/green band Automatic reset	
	Weight	110 g	
	Cracking pressure or indication range	1 bar ± 10% 3 bar ± 10% 1.5 bar ± 10% 5 bar ± 10% 2 bar ± 10% 8 bar ± 10%	#27
	Perm. operating pressure	420 bar	
	Perm. temperature range	-20°C to +100°C	
	Thread	G 1/2	l i i i i i i i i i i i i i i i i i i i
QAE	Max. torque value	100 Nm	SW27
	Switching type	-	
	Max. switching voltage	-	
	Electrical connection	-	
	Max. switching voltage at resistive load	-	
	Switching capacity	-	
	Protection class acc. DIN 40050	-	
	Order example	PVD 2 B.1	

#### pVd x c.x

	Type of indication	Electrical switch		
	Weight	220 g		
	Cracking pressure or indication range	1 bar ± 10% 3 bar ± 10% 1.5 bar ± 10% 5 bar ± 10% 2 bar ± 10% 8 bar ± 10%	N20x1.5 gem. \$37.5 EN 50262	
	Perm. operating pressure	420 bar		
	Perm. temperature range	-20°C to +100°C		
	Thread	G 1/2		
CAD	Max. torque value	100 Nm		
	Switching type	N/C or N/O (change-over contacts)		
	Max. switching voltage	230 V		
	Electrical connection	Male connection M20x1.5 acc. EN 50262 Female connector acc. DIN		
	Max. switching voltage at resistive load	€3650_ 100 VA ~		
	Switching capacity	Ohmic 3 A at 24 V = Ohmic 0.03 to 5 A at max. 230 V ~	<u>G 1/2</u>	
	Protection class acc. DIN 40050	IP 65 (only if the connector is wired and fitted correctly)		
B	Order example	PVD 5 C.0		

#### pVd x d.x /-I...

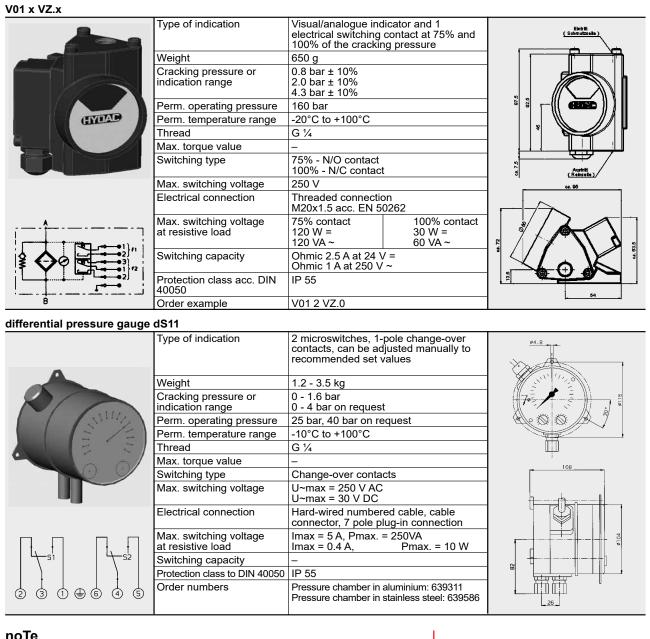
Mr - A	Type of indication	Visual indicator and electrical switch		
	Weight	250 g		
	Cracking pressure or indication range	1 bar ± 10% 3 bar ± 10% 1.5 bar ± 10% 5 bar ± 10% 2 bar ± 10% 8 bar ± 10%	<u>, ca. 34</u> 28	
	Perm. operating pressure	420 bar		
	Perm. temperature range	-20°C to +100°C		
	Thread	G 1/2	〕│ ┃ ┆ ┣_म▤ │ │	
MOAC	Max. torque value	100 Nm	〕│ <del>╟╷┥┥┩</del> ││	
	Switching type	N/C or N/O (change-over contacts)		
	Max. switching voltage	24, 48, 110, 230 V depending on the light insert		
	Electrical connection	Male connection M20x1.5 acc. EN 50262 Female connector acc. DIN	│ │ <del>┌─└<mark>╔╤╪╼</mark>┙────┙</del> │	
·····	Max. switching voltage at resistive load	<mark>€</mark> 8650_ 100 VA ~		
	Switching capacity	Ohmic 3 A at 24 V = Ohmic 0.03 to 5 A at max. 230 V ~	<u>G 1/2</u>	04.14
	Protection class acc. DIN 40050	IP 65 (only if the connector is wired and fitted correctly)		7.719.1/04.14
<u> </u>	Order example	PVD 2 D.0 /-L24		Е 7.

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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.



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