

Clogging Indicators



Clogging indicators are devices that check the life time of the filter elements. They measure the pressure drop through the filter element directly connected to the filter housing.

These devices trip when the clogging of the filter element causes a pressure drop increasing across the filter element.

Filter elements are efficient only if their Dirt Holding Capacity is fully exploited. This is achieved by using filter housings equipped with clogging indicators. The indicator is set to alarm before the element becomes fully clogged.

MP Filtri can supply indicators of the following designs:

- Vacuum switches and gauges
- Pressure switches and gauges
- Differential pressure indicators

These type of devices can be provided with a visual, electrical or both signals. The electronic differential pressure clogging indicator is also available. It provides both analogical 4-20 mA output and digital warning (75% of clogging) and alarm (clogging) outputs.

Clogging indicators



Suitable indicator types

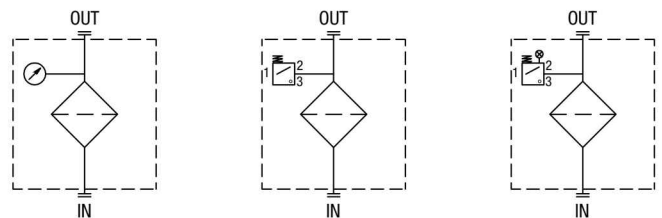
VACUUM INDICATORS

Vacuum indicators are used on the Suction line to check the efficiency of the filter element.

They measure the pressure downstream of the filter element.

Standard items are produced with R 1/4" EN 10226 connection.

Available products with R 1/8" EN 10226 to be fitted on MPS series.

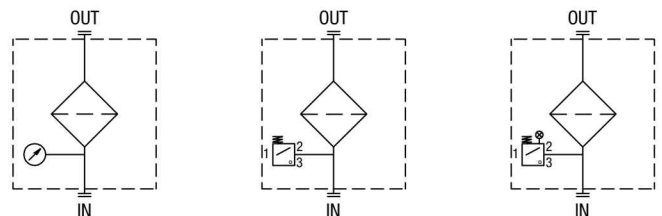


BAROMETRIC INDICATORS

Pressure indicators are used on the Return line to check the efficiency of the filter element.

They measure the pressure upstream of the filter element.

Standard items are produced with R 1/8" EN 10226 connection.



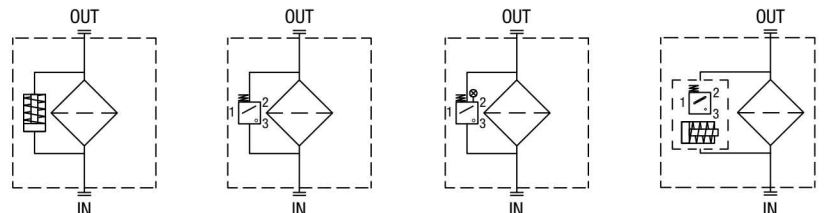
DIFFERENTIAL INDICATORS

Differential indicators are used on the Pressure line to check the efficiency of the filter element.

They measure the pressure upstream and downstream of the filter element (differential pressure).

Standard items are produced with special connection G 1/2" size.

Also available in Stainless Steel models.



VACUUM INDICATORS

Dimensions

VE*50	
Electrical Vacuum Indicator	
R	Ordering code
EN 10226 - R1/4"	VE A 21 A A 50 P01
EN 10226 - R1/8"	VE B 21 A A 50 P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: NBR

Technical data

- Vacuum setting: -0.21 bar ±10%
- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

Electrical data

- Electrical connection: EN 175301-803
- Resistive load: 5 A / 14 Vdc
4 A / 30 Vdc
5 A / 125 Vac
4 A / 250 Vac
- Available Atex product: II 1GD Ex ia IIC Tx Ex ia IIIC Tx °C X
- CE certification

VL*51 - VL*52 - VL*53	
Electrical/Visual Vacuum Indicator	
R	Ordering code
EN 10226 - R1/4"	VL A 21 A A xx P01
EN 10226 - R1/8"	VL B 21 A A xx P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Transparent Nylon
- Contacts: Brass - Nylon
- Seal: NBR

Technical data

- Vacuum setting: -0.21 bar ±10%
- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

Electrical data

- Electrical connection: EN 175301-803
- Type: 51 52 53
- Lamps: 24 Vdc 110 Vdc 230 Vac
- Resistive load: 1 A / 24 Vdc 1 A / 110 Vdc 1 A / 230 Vac

VL*71	
Electrical/Visual Vacuum Indicator	
Connections	Indicator code
EN 10226 - R1/4"	VL A 21 A A 71 P01
EN 10226 - R1/8"	VL B 21 A A 71 P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: NBR

Technical data

- Vacuum setting: -0.21 bar ±10%
- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

Electrical data

- Electrical connection: IEC 61076-2-101 D (M12)
- Lamps: 24 Vdc
- Resistive load: 0.4 A / 24 Vdc

VVA - VVB	
Axial Vacuum Gauge	
R	Ordering code
EN 10226 - R1/4"	VV A 16 P01
EN 10226 - R1/8"	VV B 16 P01

Hydraulic symbol

Dial scale

Conversion to SI units

[cmHg]	[bar]
-12	-0.16
-18	-0.24
-76	-1.01

Materials

- Case: Painted Steel
- Window: Transparent plastic
- Dial: Painted Steel
- Pointer: Painted Aluminium
- Pressure connection: Brass
- Pressure element: Bourdon tube Cu-alloy soft soldered

Technical data

- Max working pressure: Static: 7 bar
Fluctuating: 6 bar
Short time: 10 bar
- Working temperature: From -40 °C to +60 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Accuracy: Class 2.5 according to EN 13190
- Degree of protection: IP31 according to EN 60529

VVR - VVS		
Radial Vacuum Gauge		
R	A/F	Ordering code
EN 10226 - R1/4"	14	VV R 16 P01
EN 10226 - R1/8"	11	VV S 16 P01

Hydraulic symbol

Dial scale

Conversion to SI units

[cmHg]	[bar]
-12	-0.16
-18	-0.24
-76	-1.01

Materials

- Case: Painted Steel
- Window: Transparent plastic
- Dial: Painted Steel
- Pointer: Painted Aluminium
- Pressure connection: Brass
- Pressure element: Bourdon tube Cu-alloy soft soldered

Technical data

- Max working pressure: Static: 7 bar
Fluctuating: 6 bar
Short time: 10 bar
- Working temperature: From -40 °C to +60 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Accuracy: Class 2.5 according to EN 13190
- Degree of protection: IP31 according to EN 60529

DESIGNATION & ORDERING CODE								
Series	Configuration example 1:	VE	A	21	A	A	50	P01
VE Electrical vacuum indicator	Configuration example 2:	VL	B	21	A	A	71	P01
VL Electrical/Visual vacuum indicator	Configuration example 3:	VV	R	16				P01
VV Vacuum gauge								
Type VE - VL	Type VV							
A Connection EN 10226 - R1/4"	A Axial connection EN 10226 - R1/4"							
B Connection EN 10226 - R1/8"	B Axial connection EN 10226 - R1/8"							
	R Radial connection EN 10226 - R1/4"							
	S Radial connection EN 10226 - R1/8"							
Vacuum setting		VE	VL	VV				
16 0.16 bar				•				
21 0.21 bar		•	•					
Seals		VE	VL	VV				
A NBR		•	•					
Thermostat		VE	VL	VV				
A Without		•	•					
Electrical connections		VE	VL	VV				
50 Connection EN 175301-803		•						
51 Connection EN 175301-803, transparent base with lamps 24 Vdc			•					
52 Connection EN 175301-803, transparent base with lamps 110 Vdc			•					
53 Connection EN 175301-803, transparent base with lamps 230 Vdc			•					
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc			•					
	Option							
	P01 MP Filtri standard							
	Pxx Customized							

BAROMETRIC INDICATORS

Dimensions

BEA*50	
Electrical Pressure Indicator	
Settings	Ordering code
1.5 bar $\pm 10\%$	BE A 15 H A 50 P01
2 bar $\pm 10\%$	BE A 20 H A 50 P01
<p>Hydraulic symbol</p>	
<p>Electrical symbol</p>	
<p>Materials</p> <ul style="list-style-type: none"> - Body: Brass - Base: Black Nylon - Contacts: Silver - Seal: HNBR 	
<p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529 	
<p>Electrical data</p> <ul style="list-style-type: none"> - Electrical connection: EN 175301-803 - Resistive load: 5 A / 14 Vdc 4 A / 30 Vdc 5 A / 125 Vac 4 A / 250 Vac <p>- Available Atex product: II 1GD Ex ia IIC Tx Ex ia IIIC Tx °C X </p> <p>- CE certification</p>	

BEM*41	
Electrical Pressure Indicator	
Settings	Ordering code
1.5 bar $\pm 10\%$	BE M 15 H A 41 P01
2 bar $\pm 10\%$	BE M 20 H A 41 P01
<p>Hydraulic symbol</p>	
<p>Electrical symbol</p>	
<p>Materials</p> <ul style="list-style-type: none"> - Body: Brass - Base: Black Nylon - Contacts: Silver - Seal: HNBR 	
<p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP67 according to EN 60529 	
<p>Electrical data</p> <ul style="list-style-type: none"> - Electrical connection: Four-core cable - Resistive load: 5 A / 14 Vdc 4 A / 30 Vdc 5 A / 125 Vac 4 A / 250 Vac <p>- CE certification</p> <p>On request this indicator can be provided with main connectors in use for wirings.</p>	

BET*10	
Electrical Pressure Indicator	
Settings	Ordering code
2 bar $\pm 10\%$	BET 20 H F 10 P01
2.5 bar $\pm 10\%$	BET 25 H F 10 P01
<p>Hydraulic symbol</p>	
<p>Electrical symbol</p>	
<p>Materials</p> <ul style="list-style-type: none"> - Body: Brass - Base: Black Nylon - Contacts: Silver - Seal: HNBR 	
<p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 10 bar - Proof pressure: 15 bar - Working temperature: From -25 °C to +100 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529 	
<p>Electrical data</p> <ul style="list-style-type: none"> - Electrical connection: AMP Superseal series 1.5 - Resistive load: 0.5 A / 48 Vdc - Thermostat condition: Open up to 30 °C <p>- CE certification</p>	

BET*30	
Electrical Pressure Indicator	
Settings	Ordering code
2 bar $\pm 10\%$	BE T 20 H F 30 P01
2.5 bar $\pm 10\%$	BE T 25 H F 30 P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR

Technical data

- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +100 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

Electrical data

- Electrical connection: Deutsch DT-04-2-P
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

BET*50	
Electrical Pressure Indicator	
Settings	Ordering code
2 bar $\pm 10\%$	BE T 20 H F 50 P01
2.5 bar $\pm 10\%$	BE T 25 H F 50 P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR

Technical data

- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +100 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

Electrical data

- Electrical connection: EN 175301-803
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

BL*51 - BL*52 - BL*53	
Electrical/Visual Pressure Indicator	
Settings	Ordering code
1.5 bar $\pm 10\%$	BL A 15 H A xx P01
2 bar $\pm 10\%$	BL A 20 H A xx P01

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Transparent Nylon
- Contacts: Silver
- Seal: HNBR

Technical data

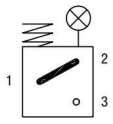
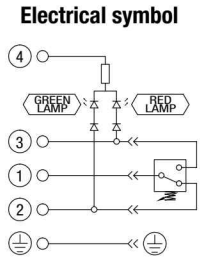
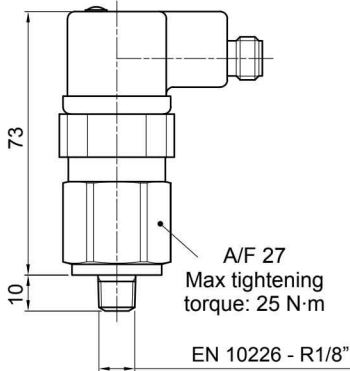
- Max working pressure: 40 bar
- Proof pressure: 60 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

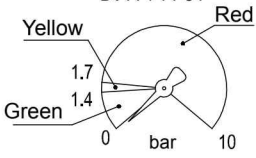
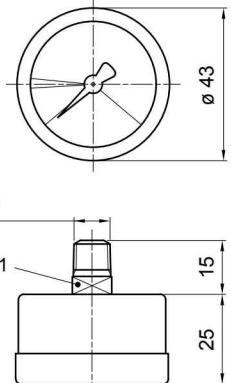
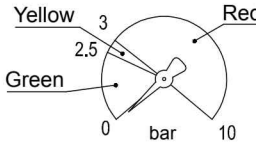
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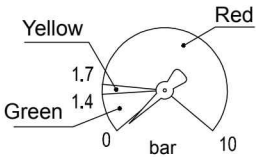
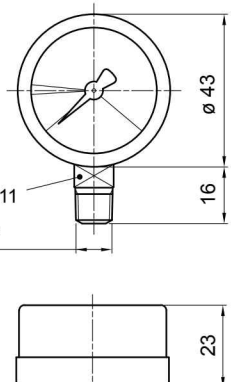
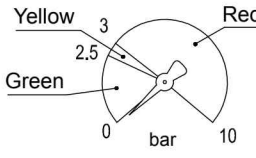
- Electrical connection: EN 175301-803
- Type: 51 52 53
- Lamps: 24 Vdc 110 Vdc 230 Vac
- Resistive load: 1 A / 24 Vdc 1 A / 110 Vdc 1 A / 230 Vac

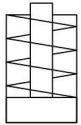
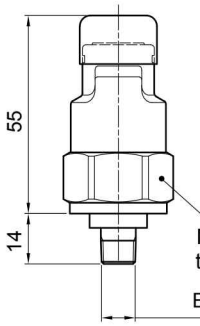
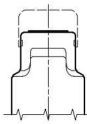
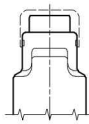
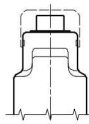
BAROMETRIC INDICATORS

Dimensions

BL*71		Hydraulic symbol	Materials
Electrical/Visual Pressure Indicator			
Settings	Ordering code		- Body: Brass - Base: Black Nylon - Contacts: Silver - Seal: HNBR
1.5 bar ±10%	BL A 15 HA 71 P01		
2 bar ±10%	BL A 20 HA 71 P01		Technical data - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529
			

BVA		Hydraulic symbol	Materials
Axial Pressure Gauge			
Settings	Ordering code		
1.4 bar ±10%	BV A 14 P01		Technical data - Max working pressure: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar - Working temperature: From -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529
2.5 bar ±10%	BV A 25 P01		
			

BVR		Hydraulic symbol	Materials
Radial Pressure Gauge			
Settings	Ordering code		
1.4 bar ±10%	BV R 14 P01		Technical data - Max working pressure: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar - Working temperature: From -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529
2.5 bar ±10%	BV R 25 P01		
			

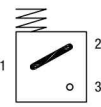
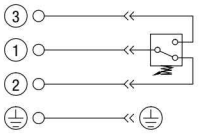
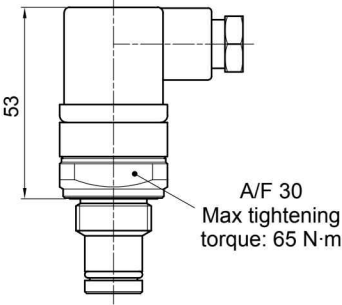
BVP - BVQ		Hydraulic symbol	Materials	
Visual Pressure Indicator				
Setting	Ordering code			
1.5 bar ±10%	BV P 15 H P01		Technical data - Reset: BVP - Automatic reset BVQ - Manual reset - Max working pressure: 10 bar - Proof pressure: 15 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP45 according to EN 60529	
	BV Q 15 H P01			
2 bar ±10%	BV P 20 H P01	A/F 27 Max tightening torque: 25 N·m EN 10226 - R1/8"		
	BV Q 20 H P01			
		Signals		
		 Absence of pressure (no indicator)	 Presence of pressure (green button rises gradually)	 Clogged filter element (red button risen)

DESIGNATION & ORDERING CODE											
Series				Configuration example 1:	BE	M	15	H	A	41	P01
BE Electrical pressure indicator				Configuration example 2:	BL	A	20	H	A	71	P01
BL Electrical/Visual pressure indicator				Configuration example 3:	BV	R	14				P01
BV Visual pressure indicator				Configuration example 4:	BV	P	20	H			P01
Type	BE	BL	BV								
A Standard type	•	•	A Axial connection pressure gauge								
M With wired electrical connection	•		R Radial connection pressure gauge								
T With thermal switch	•		P Visual indicator with automatic reset								
			Q Visual indicator with manual reset								
Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ						
14 1.4 bar				•							
15 1.5 bar	•		•								
20 2 bar	•	•	•		•						
25 2.5 bar		•		•							
Seals	BE	BLA	BVA-BVR	BVP-BVQ							
H HNBR	•	•		•							
Thermostat	BEA-BEM	BET	BLA	BV							
A Without	•		•								
F With		•									
Electrical connections	BEA	BEM	BET	BL	BV						
10 Connection AMP Superseal series 1.5			•								
30 Connection Deutsch DT-04-2-P			•								
41 Connection via four-core cable		•									
50 Connection EN 175301-803	•		•								
51 Connection EN 175301-803, transparent base with lamps 24 Vdc				•							
52 Connection EN 175301-803, transparent base with lamps 110 Vdc				•							
53 Connection EN 175301-803, transparent base with lamps 230 Vdc				•							
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc				•							
	Option										
	P01 MP Filtri standard										
	Pxx Customized										

DIFFERENTIAL INDICATORS

Dimensions

DEA*50	
Electrical Differential Indicator	
Settings	Ordering code
1.2 bar ±10%	DE A 12 x A 50 P01
2 bar ±10%	DE A 20 x A 50 P01
5 bar ±10%	DE A 50 x A 50 P01
7 bar ±10%	DE A 70 x A 50 P01
9.5 bar ±10%	DE A 95 x A 50 P01

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

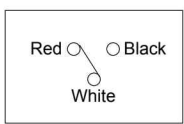
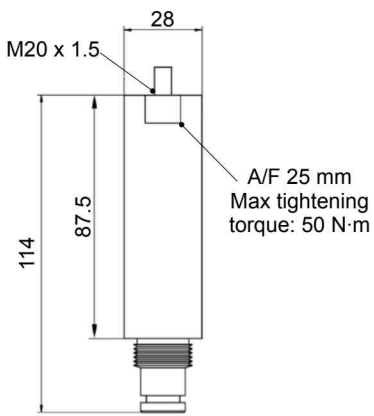
Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529
IP69K according to ISO 20653

Electrical data

- Electrical connection: EN 175301-803
- Resistive load: 0.2 A / 115 Vdc

DEH*48	
Hazardous Area Electronic Differential Indicator	
Settings	Ordering code
5 bar ±10%	DE H 50 x A 48 P01
7 bar ±10%	DE H 70 x A 48 P01

Materials

- Body: AISI 316 Stainless steel
- Contacts: Rhodium (tungsten optional)
- Seal: MFQ - FPM

Protection class Ex ia IIC T4/T6: Intrinsically safe

Temperature class T4 (135 °C) and T6 (85 °C)

Technical data

- Max working pressure: 420 bar
- Working temperature: From -60 °C to +125 °C
- Connection type: M20 x 1.5 - 3 core polyrad cable supplied with 5 meters
- Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts)
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP 66/67/68 according to EN 60529

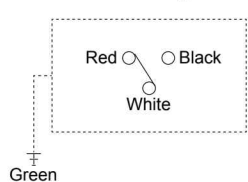
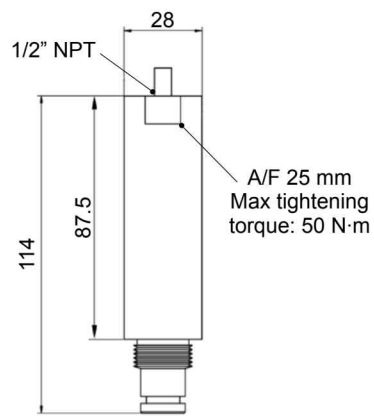
Electrical data

- Current Ratings: 24v DC 830mA - 110v AC 180mA
- Electrical Ratings: Ui 30V - Li 250mA - Pi 1.3W

Certification / Approvals: ATEX, IECEx, TRCU, INMETRO

Certification included as standard

DEH*49	
Hazardous Area Electronic Differential Indicator	
Settings	Ordering code
5 bar ±10%	DE H 50 x A 49 P01
7 bar ±10%	DE H 70 x A 49 P01

Materials

- Body: AISI 316 Stainless steel
- Contacts: Rhodium (tungsten optional)
- Seal: MFQ - FPM

Protection class Ex d IIC T4/T6: Flameproof

Temperature class T4 (135 °C) and T6 (85 °C)

Technical data

- Max working pressure: 420 bar
- Working temperature: From -60 °C to +120 °C : ATEX, IECEx, TRCU, INMETRO
From -60 °C to +105 °C : UL/CSA
- Connection type: 1/2" NPT - 3 core polyrad cable supplied with 5 meters
- Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts)
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree of protection: IP 66/67/68 according to EN 60529

Electrical data

- Current Ratings: 24v DC 830mA - 110v AC 180mA
- Electrical Ratings: Supply Voltage | 24 VDC | 110 VAC |
Max switching current | 830mA | 180mA |
Max voltage | 150 V AC/DC |
Power watts | 20 W VA |

Certification / Approvals: ATEX, IECEx, TRCU, INMETRO, UL/CSA Class I Division 1 Groups A-D, UL/CSA Class II Division 1 Groups E-G

Certification included as standard

DEH*70		Connection diagram	Materials
Hazardous Area Electronic Differential Indicator			
Settings	Ordering code		
5 bar ±10%	DE H 50 x A 70 P01		Protection class EX ia IIC T6: Intrinsically safe Temperature class T6 (85 °C) Technical data - Max working pressure: 420 bar - Working temperature: From -20 °C to +80 °C - Connection type: 4 pole male M12 connector - plastic - Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts) - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree of protection: IP 66/67 according to EN 60529
7 bar ±10%	DE H 70 x A 70 P01		

DEM*10		Hydraulic symbol	Materials
Electrical Differential Indicator			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x x 10 P01		Technical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree protection: IP66 according to EN 60529
2 bar ±10%	DE M 20 x x 10 P01		
5 bar ±10%	DE M 50 x x 10 P01		Electrical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree protection: IP66 according to EN 60529
7 bar ±10%	DE M 70 x x 10 P01		
9.5 bar ±10%	DE M 95 x x 10 P01		Electrical data - Electrical connection: AMP Superseal series 1.5 - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")

DEM*20		Hydraulic symbol	Materials
Electrical Differential Indicator			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x x 20 P01		Technical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree protection: IP66 according to EN 60529
2 bar ±10%	DE M 20 x x 20 P01		
5 bar ±10%	DE M 50 x x 20 P01		Electrical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree protection: IP66 according to EN 60529
7 bar ±10%	DE M 70 x x 20 P01		
9.5 bar ±10%	DE M 95 x x 20 P01		Electrical data - Electrical connection: AMP Time junior - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")

DIFFERENTIAL INDICATORS

Dimensions

DEM*30	
Electrical Differential Indicator	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE M 12 x x 30 P01
2 bar $\pm 10\%$	DE M 20 x x 30 P01
5 bar $\pm 10\%$	DE M 50 x x 30 P01
7 bar $\pm 10\%$	DE M 70 x x 30 P01
9.5 bar $\pm 10\%$	DE M 95 x x 30 P01

A/F 28
Max tightening torque: 65 N·m

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529

Electrical data

- Electrical connection: Deutsch DT-04-2-P
- Resistive load: 0.2 A / 115 Vdc
- Switching type: Normally open contacts (NC on request)
- Thermal lockout: Normally open up to 30 °C (option "F")

DEM*35	
Electrical Differential Indicator	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE M 12 x x 35 P01
2 bar $\pm 10\%$	DE M 20 x x 35 P01
5 bar $\pm 10\%$	DE M 50 x x 35 P01
7 bar $\pm 10\%$	DE M 70 x x 35 P01
9.5 bar $\pm 10\%$	DE M 95 x x 35 P01

min. 60
30
flexible cable: 240 to "A"
A/F 28
Max tightening torque: 65 N·m

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529

Electrical data

- Electrical connection: Deutsch DT-04-3-P
- Resistive load: 0.2 A / 115 Vdc
- Switching type: SPDT contact
- Thermal lockout: Normally open up to 30 °C (option "F")

DLA*51 - DLA*52	
Electrical/Visual Differential Indicator	
Settings	Ordering code
1.2 bar $\pm 10\%$	DL A 12 x A xx P01
2 bar $\pm 10\%$	DL A 20 x A xx P01
5 bar $\pm 10\%$	DL A 50 x A xx P01
7 bar $\pm 10\%$	DL A 70 x A xx P01
9.5 bar $\pm 10\%$	DL A 95 x A xx P01

53
A/F 30
Max tightening torque: 65 N·m

Hydraulic symbol

Electrical symbol

Materials

- Body: Brass
- Base: Transparent Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529
IP69K according to ISO 20653

Electrical data

- Electrical connection: EN 175301-803
- Type: 51 52
- Lamps: 24 Vdc 110 Vdc
- Resistive load: 1 A / 24 Vdc 1 A / 110 Vdc

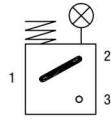
DLA*71

Electrical/Visual Differential Indicator

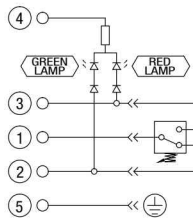
Settings	Ordering code
1.2 bar ±10%	DL A 12 x A 71 P01
2 bar ±10%	DL A 20 x A 71 P01
5 bar ±10%	DL A 50 x A 71 P01
7 bar ±10%	DL A 70 x A 71 P01
9.5 bar ±10%	DL A 95 x A 71 P01

A/F 30
Max tightening torque: 65 N·m

Hydraulic symbol



Electrical symbol



Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529
IP69K according to ISO 20653

Electrical data

- Electrical connection: IEC 61076-2-101 D (M12)
- Lamps: 24 Vdc
- Resistive load: 0.4 A / 24 Vdc

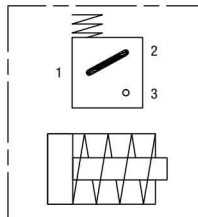
DLE*A50

Electrical/Visual Differential Indicator

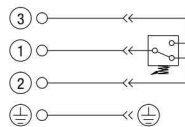
Settings	Ordering code
1.2 bar ±10%	DL E 12 x A 50 P01
2 bar ±10%	DL E 20 x A 50 P01
5 bar ±10%	DL E 50 x A 50 P01
7 bar ±10%	DL E 70 x A 50 P01
9.5 bar ±10%	DL E 95 x A 50 P01

A/F 32
Max tightening torque: 95 N·m

Hydraulic symbol



Electrical symbol



Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

Electrical data

- Electrical connections: EN 175301-803
- Resistive load: 5 A / 250 Vac
- Available the connector with lamps

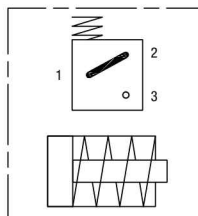
DLE*F50

Electrical/Visual Differential Indicator

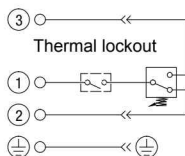
Settings	Ordering code
1.2 bar ±10%	DL E 12 x F 50 P01
2 bar ±10%	DL E 20 x F 50 P01
5 bar ±10%	DL E 50 x F 50 P01
7 bar ±10%	DL E 70 x F 50 P01
9.5 bar ±10%	DL E 95 x F 50 P01

A/F 32
Max tightening torque: 95 N·m

Hydraulic symbol



Electrical symbol



Materials

- Body: Brass
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

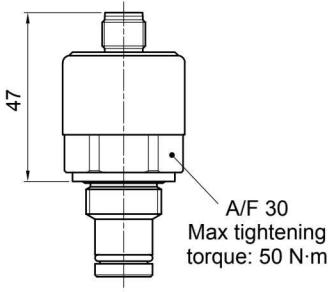
Electrical data

- Electrical connections: EN 175301-803
- Resistive load: 5 A / 250 Vac
- Thermal lockout setting: +30 °C

DIFFERENTIAL INDICATORS

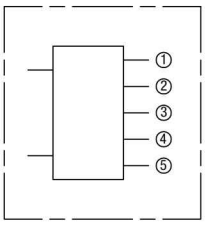
Dimensions

DTA*70	
Electronic Differential Indicator	
Settings	Ordering code
1.2 bar ±10%	DT A 12 x x 70 P01
2 bar ±10%	DT A 20 x x 70 P01
5 bar ±10%	DT A 50 x x 70 P01
7 bar ±10%	DT A 70 x x 70 P01
9.5 bar ±10%	DT A 95 x x 70 P01




A/F 30
Max tightening torque: 50 N·m

Hydraulic symbol



Materials

- Body: Brass
- Internal parts: Brass - Nylon
- Contacts: Silver
- Seal: HNBR - FPM



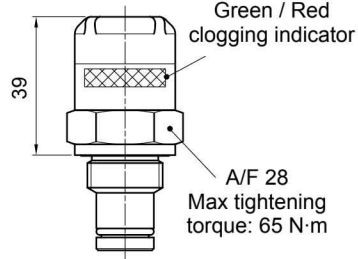
Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

Electrical data

- Electrical connection: IEC 61076-2-101 D (M12)
- Power supply: 24 Vdc
- Analogue output: From 4 to 20 mA
- Thermal lockout: 30 °C (all output signals stalled up to 30 °C)

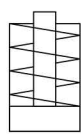
DVA	
Visual Differential Indicator	
Settings	Ordering code
1.2 bar ±10%	DV A 12 x P01
2 bar ±10%	DV A 20 x P01
5 bar ±10%	DV A 50 x P01
7 bar ±10%	DV A 70 x P01
9.5 bar ±10%	DV A 95 x P01



Green / Red clogging indicator

A/F 28
Max tightening torque: 65 N·m

Hydraulic symbol



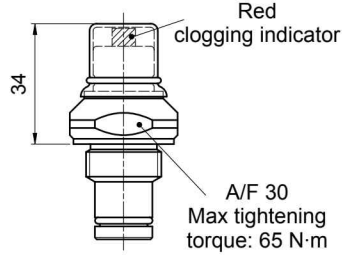
Materials

- Body: Brass
- Internal parts: Brass - Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Reset: Automatic reset
- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

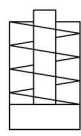
DVM	
Visual Differential Indicator	
Settings	Ordering code
1.2 bar ±10%	DV M 12 x P01
2 bar ±10%	DV M 20 x P01
5 bar ±10%	DV M 50 x P01
7 bar ±10%	DV M 70 x P01
9.5 bar ±10%	DV M 95 x P01



Red clogging indicator

A/F 30
Max tightening torque: 65 N·m

Hydraulic symbol

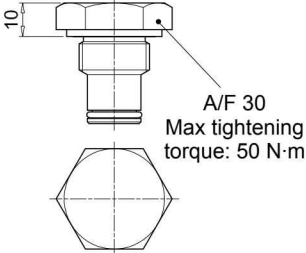


Materials

- Body: Brass
- Internal parts: Brass - Nylon
- Contacts: Silver
- Seal: HNBR - FPM

Technical data

- Reset: Manual reset
- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

T2	Materials - Body: Phosphatized steel - Seal: HNBR / FPM					
Indicator plug						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Seal</th> <th style="width: 50%;">Ordering code</th> </tr> <tr> <td>HNBR</td> <td>T2 H</td> </tr> <tr> <td>FPM</td> <td>T2 V</td> </tr> </table>		Seal	Ordering code	HNBR	T2 H	FPM
Seal	Ordering code					
HNBR	T2 H					
FPM	T2 V					
						

DESIGNATION & ORDERING CODE - DIFFERENTIAL INDICATORS

Series	Configuration example 1:	DE	M	50	H	F	50	P01
DE Electrical or Electronic differential indicator	Configuration example 2:	DE	H	50	F	A	70	P01
DL Electrical / Visual differential indicator	Configuration example 3:	DL	E	70	V	A	71	P01
DT Electronic differential indicator	Configuration example 4:	DT	A	50	H	F	70	P01
DV Visual differential indicator	Configuration example 5:	DV	M	95	V			P01

Type	DE	DL	DT	DV	
A Standard type	•	•	•	•	A With automatic reset
M With wired electrical connection	•				M With manual reset
E For high power supply		•			
H Hazardous area	•				

Pressure setting	DEA	DEH	DEM	DLA	DLE	DT	DV
12 1.2 bar	•		•	•	•	•	•
20 2 bar	•		•	•	•	•	•
50 5 bar	•	•	•	•	•	•	•
70 7 bar	•	•	•	•	•	•	•
95 9.5 bar	•		•	•	•	•	•

Seals	DEA	DEH	DEM	DLA	DLE	DT	DV
F MFQ		•					
H HNBR	•		•	•	•	•	•
V FPM	•	•	•	•	•	•	•

Thermostat	DEA	DEH	DEM	DLA	DLE	DT	DV
A Without	•	•	•	•	•		
F With thermostat			•		•	•	

Electrical connections	DEA	DEH	DEM	DLA	DLE	DT	DV
10 Connection AMP Superseal series 1.5			•				
20 Connection AMP Timer Junior			•				
30 Connection Deutsch DT-04-2-P			•				
35 Connection Deutsch DT-04-3-P			•				
48 Connection M20		•					
49 Connection 1/2" NPT		•					
50 Connection EN 175301-803	•				•		
51 Connection EN 175301-803, transparent base with lamps 24 Vdc				•			
52 Connection EN 175301-803, transparent base with lamps 110 Vdc				•			
70 Connection IEC 61076-2-101 D (M12)		•				•	
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc				•			

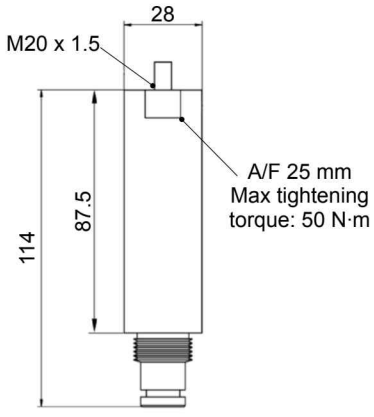
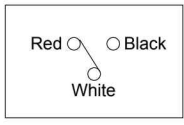

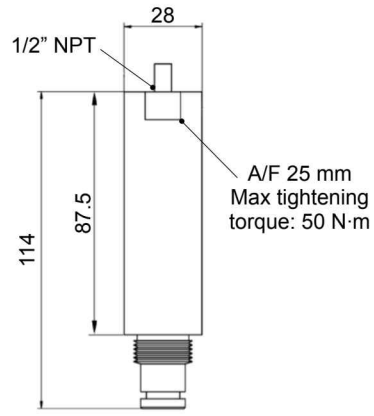
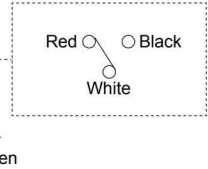

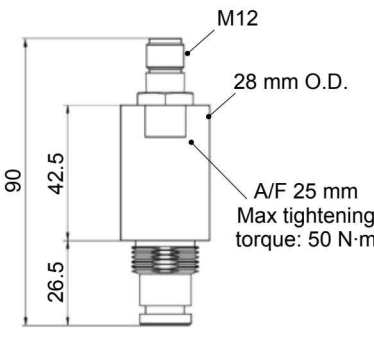
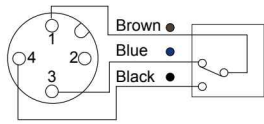

Option
P01 MP Filtri standard
Pxx Customized

DESIGNATION & ORDERING CODE - DIFFERENTIAL INDICATOR PLUG

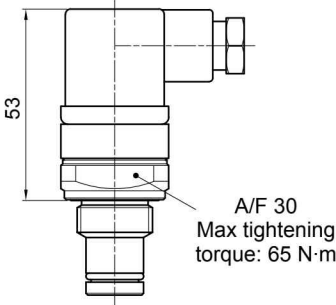
Series	Configuration example	T2	H
T2 Indicator plug			
Seals			
H HNBR			
V FPM			

STAINLESS STEEL DIFFERENTIAL INDICATORS

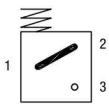
Dimensions

<p style="text-align: center;">DEH*48</p> <p style="text-align: center;">Hazardous Area Electronic Differential Indicator</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Settings</th> <th>Ordering code</th> </tr> </thead> <tbody> <tr> <td>5 bar ±10%</td> <td>DE H 50 x A 48 P01</td> </tr> <tr> <td>7 bar ±10%</td> <td>DE H 70 x A 48 P01</td> </tr> </tbody> </table>  <p style="text-align: center;">A/F 25 mm Max tightening torque: 50 N·m</p>	Settings	Ordering code	5 bar ±10%	DE H 50 x A 48 P01	7 bar ±10%	DE H 70 x A 48 P01	<p style="text-align: center;">Connection diagram</p>  <p style="text-align: center;">  - Certification / Approvals: ATEX, IECEx, TRCU, INMETRO - Certification included as standard </p>	<p>Materials</p> <ul style="list-style-type: none"> - Body: AISI 316 Stainless steel - Contacts: Rhodium (tungsten optional) - Seal: MFQ - FPM <p>Protection class EX ia IIC T4/T6: Intrinsically safe</p> <p>Temperature class T4 (135 °C) and T6 (85 °C)</p> <p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 420 bar - Working temperature: From -60 °C to +125 °C - Connection type: M20 x 1.5 - 3 core polyrad cable supplied with 5 metres - Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts) - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree of protection: HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP 66/67/68 according to EN 60529 <p>Electrical data</p> <ul style="list-style-type: none"> - Current Ratings: 24v DC 830mA - 110v AC 180mA - Electrical Ratings: Ui 30V - Li 250mA - Pi 1.3W 								
Settings	Ordering code															
5 bar ±10%	DE H 50 x A 48 P01															
7 bar ±10%	DE H 70 x A 48 P01															
<p style="text-align: center;">DEH*49</p> <p style="text-align: center;">Hazardous Area Electronic Differential Indicator</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Settings</th> <th>Ordering code</th> </tr> </thead> <tbody> <tr> <td>5 bar ±10%</td> <td>DE H 50 x A 49 P01</td> </tr> <tr> <td>7 bar ±10%</td> <td>DE H 70 x A 49 P01</td> </tr> </tbody> </table>  <p style="text-align: center;">A/F 25 mm Max tightening torque: 50 N·m</p>	Settings	Ordering code	5 bar ±10%	DE H 50 x A 49 P01	7 bar ±10%	DE H 70 x A 49 P01	<p style="text-align: center;">Connection diagram</p>  <p style="text-align: center;">  - Certification / Approvals: ATEX, IECEx, TRCU, INMETRO, UL/CSA Class I Division 1 Groups A-D, UL/CSA Class II Division 1 Groups E-G - Certification included as standard </p>	<p>Materials</p> <ul style="list-style-type: none"> - Body: AISI 316 Stainless steel - Contacts: Rhodium (tungsten optional) - Seal: MFQ - FPM <p>Protection class Ex d IIC T4/T6: Flameproof</p> <p>Temperature class T4 (135 °C) and T6 (85 °C)</p> <p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 420 bar - Working temperature: From -60 °C to +120 °C : ATEX, IECEx, TRCU, INMETRO From -60 °C to +105 °C : UL/CSA - Connection type: 1/2" NPT - 3 core polyrad cable supplied with 5 metres - Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts) - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree of protection: HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP 66/67/68 according to EN 60529 <p>Electrical data</p> <ul style="list-style-type: none"> - Current Ratings: 24v DC 830mA - 110v AC 180mA - Electrical Ratings: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Supply Voltage</td> <td>24 VDC 110 VAC</td> </tr> <tr> <td>Max switching current</td> <td>830mA 180mA</td> </tr> <tr> <td>Max voltage</td> <td>150 V AC/DC</td> </tr> <tr> <td>Power watts</td> <td>20 W VA</td> </tr> </table> 	Supply Voltage	24 VDC 110 VAC	Max switching current	830mA 180mA	Max voltage	150 V AC/DC	Power watts	20 W VA
Settings	Ordering code															
5 bar ±10%	DE H 50 x A 49 P01															
7 bar ±10%	DE H 70 x A 49 P01															
Supply Voltage	24 VDC 110 VAC															
Max switching current	830mA 180mA															
Max voltage	150 V AC/DC															
Power watts	20 W VA															
<p style="text-align: center;">DEH*70</p> <p style="text-align: center;">Hazardous Area Electronic Differential Indicator</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Settings</th> <th>Ordering code</th> </tr> </thead> <tbody> <tr> <td>5 bar ±10%</td> <td>DE H 50 x A 70 P01</td> </tr> <tr> <td>7 bar ±10%</td> <td>DE H 70 x A 70 P01</td> </tr> </tbody> </table>  <p style="text-align: center;">A/F 25 mm Max tightening torque: 50 N·m</p>	Settings	Ordering code	5 bar ±10%	DE H 50 x A 70 P01	7 bar ±10%	DE H 70 x A 70 P01	<p style="text-align: center;">Connection diagram</p>  <p style="text-align: center;">  - Certification / Approvals: ATEX, IECEx, TRCU, INMETRO - Certification included as standard </p>	<p>Materials</p> <ul style="list-style-type: none"> - Body: AISI 316 Stainless steel housing with internal engineered resin switch - Contacts: Rhodium - Seal: MFQ - FPM <p>Protection class EX ia IIC T6: Intrinsically safe</p> <p>Temperature class T6 (85 °C)</p> <p>Technical data</p> <ul style="list-style-type: none"> - Max working pressure: 420 bar - Working temperature: From -20 °C to +80 °C - Connection type: 4 pole male M12 connector - plastic - Contact type: SPCO/SPDT (Hermetically sealed - volt free contacts) - Compatibility with fluids: Mineral oils, Synthetic fluids - Degree of protection: HFA, HFB, HFC according to ISO 2943 - Degree of protection: IP 66/67 according to EN 60529 <p>Electrical data</p> <ul style="list-style-type: none"> - Current Ratings: 24v DC 830mA - 110v AC 180mA - Electrical Ratings: Ui 30V - Li 250mA - Pi 1.3W 								
Settings	Ordering code															
5 bar ±10%	DE H 50 x A 70 P01															
7 bar ±10%	DE H 70 x A 70 P01															

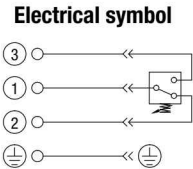
DEX*50	
Electrical Differential Indicator	
Settings	Ordering code
5 bar $\pm 10\%$	DE X 50 x A 50 P01
7 bar $\pm 10\%$	DE X 70 x A 50 P01
9.5 bar $\pm 10\%$	DE X 95 x A 50 P01



Hydraulic symbol



Electrical symbol



Materials

- Body: AISI 316L
- Base: Black Nylon
- Contacts: Silver
- Seal: HNBR - MFQ

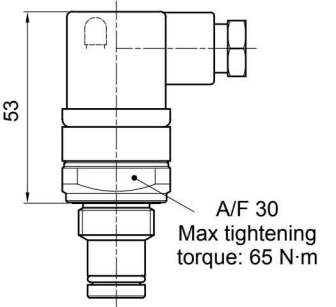
Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529
IP69K according to ISO 20653

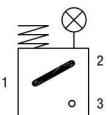
Electrical data

- Electrical connection: EN 175301-803
- Resistive load: 0.2 A / 115 Vdc

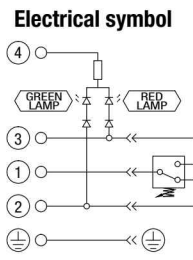
DLX*51 - DLX*52	
Electrical/Visual Differential Indicator	
Settings	Ordering code
5 bar $\pm 10\%$	DL X 50 x A x x P01
7 bar $\pm 10\%$	DL X 70 x A x x P01
9.5 bar $\pm 10\%$	DL X 95 x A x x P01



Hydraulic symbol



Electrical symbol



Materials

- Body: AISI 316L
- Base: Transparent Nylon
- Contacts: Silver
- Seal: HNBR - MFQ

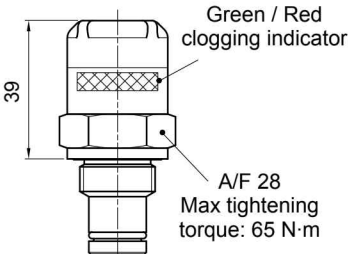
Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529
IP69K according to ISO 20653


Electrical data

- Electrical connection: EN 175301-803
- Type: 51 52
- Lamps: 24 Vdc 110 Vdc
- Resistive load: 1 A / 24 Vdc 1 A / 110 Vdc

DVX	
Visual Differential Indicator	
Settings	Ordering code
5 bar $\pm 10\%$	DV X 50 x P01
7 bar $\pm 10\%$	DV X 70 x P01
9.5 bar $\pm 10\%$	DV X 95 x P01



Hydraulic symbol



Materials


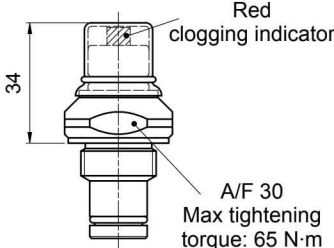
- Body: AISI 316L
- Internal parts: AISI 316L - Nylon
- Contacts: Silver
- Seal: HNBR - MFQ

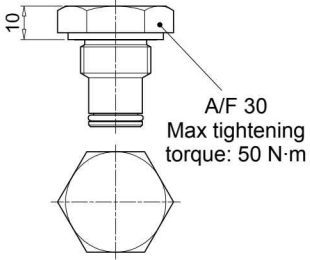
Technical data

- Reset: Automatic reset
- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

STAINLESS STEEL DIFFERENTIAL INDICATORS

Dimensions

DVY		Hydraulic symbol	Materials - Body: AISI 316L - Internal parts: AISI 316L - Nylon - Contacts: Silver - Seal: HNBR - MFQ
Visual Differential Indicator			
Settings	Ordering code		Technical data - Reset: Manual reset - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFA, HFB, HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
5 bar ±10%	DV Y 50 x P01		
7 bar ±10%	DV Y 70 x P01		
9.5 bar ±10%	DV Y 95 x P01		
			

X2		Materials
Indicator plug		
Seal	Ordering code	
HNBR	X2 H	
MFQ	X2 F	
		

DESIGNATION & ORDERING CODE - DIFFERENTIAL INDICATORS

Series				Configuration example 1:						
DE Electrical or Electronic differential indicator				DE	H	50	F	A	70	P01
DL Electrical / Visual differential indicator				DE	X	50	H	A	50	P01
DV Visual differential indicator				DL	X	95	V	A	71	P01
				DV	Y	70	V			P01

Type	DE	DL	DV
H Hazardous area	•		
X Standard type	•	•	•
Y Optional type			•

Pressure setting
50 5 bar
70 7 bar
95 9.5 bar

Seals	DEH	DEX	DLX	DV
F MFQ	•			
H HNBR		•	•	•
V FPM	•	•	•	•

Thermostat
A Without

Electrical connections	DEH	DEX	DLX	DV
48 Connection M20	•			
49 Connection 1/2" NPT	•			
50 Connection EN 175301-803		•		
51 Connection EN 175301-803, transparent base with lamps 24 Vdc			•	
52 Connection EN 175301-803, transparent base with lamps 110 Vdc			•	
70 Connection IEC 61076-2-101 D (M12)	•			

Option
P01 MP Filtri standard
Pxx Customized

DESIGNATION & ORDERING CODE - DIFFERENTIAL INDICATOR PLUG

Series		Configuration example	
X2 Indicator plug		X2	H

Seals
H HNBR
F MFQ

Filter family	Filter series	Visual indicator	Electrical indicator	Electrical / Visual indicator	Electronic indicator
SUCTION FILTERS	SF2 250 - 350 SF2 500 - 501 - 503 - 504 - 505 SF2 510 - 535 - 540	VVA16P01 VVR16P01	VEA21AA50P01	VLA21AA51P01 VLA21AA52P01 VLA21AA53P01 VLA21AA71P01	
RETURN FILTERS	MPFX-MPTX-MPF-MPT with bypass 1.75 bar MPH with bypass 1.75 bar	BVA14P01 BVR14P01 BVP20HP01 BVQ20HP01	BEA15HA50P01 BEM15HA41P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01	
	MPFX-MPTX-MPF-MPT with bypass 3 bar MPH with bypass 2.5 bar FRI 255	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEM20HA41P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01	
	MPLX FRI 025 - 040 - 100 - 250 - 630 - 850	DVA20xP01 DVM20xP01	DEA20xA50P01 DEM20xAxxP01	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01	DTA20xF70P01
RETURN / SUCTION FILTERS	Suction line MRSX 116 - 165 - 166	VVB16P01 VVS16P01	VEB21AA50P01	VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01	
	Return line MRSX 116 - 165 - 166 LMP 124 MULTIPORT	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA25HA50P01 BEM25HA41P01 BET25HF10P01 BET25HF30P01 BET25HF50P01	BLA25HA51P01 BLA25HA52P01 BLA25HA53P01 BLA25HA71P01	
SPIN-ON FILTERS	Suction line MPS 050 - 070 - 100 - 150 MPS 200 - 250 - 300 - 350	VVB16P01 VVS16P01	VEB21AA50P01	VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01	
	Return line MPS 050 - 070 - 100 - 150 MPS 200 - 250 - 300 - 350	BVA14P01 BVR14P01 BVP20HP01 BVQ20HP01	BEA15HA50P01 BEM15HA41P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01	
	In-line MPS 051 - 071 - 101 - 151 MPS 301 - 351 MSH 050 - 070 - 100 - 150	DVA12xP01 DVM12xP01	DEA12xA50P01 DEM12xAxxP01	DLA12xA51P01 DLA12xA52P01 DLA12xA71P01 DLE12xA50P01 DLE12xF50P01	
LOW & MEDIUM PRESSURE FILTERS	With bypass valve LMP 110 - 112 - 116 - 118 - 119 MULTIPORT LMP 120 - 122 - 123 MULTIPORT LMP 210 - 211 - LDP LMP 400 - 401 & 430 - 431 LMP 900 - 901 LMP 902 - 903 LMP 950 - 951 LMP 952 - 953 - 954 LMD 211 - 400 - 401 - 431 - 951 - LDD	DVA20xP01 DVM20xP01	DEA20xA50P01 DEM20xAxxP01	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01	DTA20xF70P01
	Without bypass valve LMP 110 - 112 - 116 - 118 - 119 MULTIPORT LMP 120 - 122 - 123 MULTIPORT LMP 210 - 211 - LDP LMP 400 - 401 & 430 - 431 LMP 900 - 901 LMP 902 - 903 LMP 950 - 951 LMP 952 - 953 - 954 LMD 211 - 400 - 401 - 431 - 951 - LDD	DVA50xP01 DVM50xP01	DEA50xA50P01 DEM50xAxxP01	DLA50xA51P01 DLA50xA52P01 DLA50xA71P01 DLE50xA50P01 DLE50xF50P01	DTA50xF70P01
HIGH PRESSURE FILTERS	With bypass valve FMP 039 - 065 - 135 - 320 FHP 010 - 011 - 065 - 135 - 320 - 500 FMM 050 - 150 FHA 051 FHM 006 - 007 - 010 - 050 - 065 - 135 - 320 - 500 FHB 050 - 135 - 320 FHF 325 FHD 021 - 051 - 326 - 333	DVA50xP01 DVM50xP01	DEA50xA50P01 DEM50xAxxP01	DLA50xA51P01 DLA50xA52P01 DLA50xA71P01 DLE50xA50P01 DLE50xF50P01	DTA50xF70P01 DEH50xA48P01 DEH50xA49P01 DEH50xA70P01 DEH70xA48P01 DEH70xA49P01 DEH70xA70P01
	Without bypass valve FMP 039 - 065 - 135 - 320 FHP 010 - 011 - 065 - 135 - 320 - 500 FMM 050 - 150 FHA 051 FHM 006 - 007 - 010 - 050 - 065 - 135 - 320 - 500 FHB 050 - 135 - 320 FHF 325 FHD 021 - 051 - 326 - 333	DVA70xP01 DVM70xP01	DEA70xA50P01 DEM70xAxxP01	DLA70xA51P01 DLA70xA52P01 DLA70xA71P01 DLE70xA50P01 DLE70xF50P01	DTA70xF70P01 DEH50xA48P01 DEH50xA49P01 DEH50xA70P01 DEH70xA48P01 DEH70xA49P01 DEH70xA70P01
STAINLESS STEEL HIGH PRESSURE FILTERS	With bypass valve FZH 010 - 011 - 039 FZP 039 - 136 FZX 011 FZB 039 FZM 039 FZD 051	DVX50xP01 DVY50xP01	DEX50xA50P01	DLX50xA51P01 DLX50xA52P01	DEH50xA48P01 DEH50xA49P01 DEH50xA70P01 DEH70xA48P01 DEH70xA49P01 DEH70xA70P01
	Without bypass valve FZH 010 - 011 - 039 FZP 039 - 136 FZB 039 FZM 039 FZD 010 - 021 - 051	DVX70xP01 DVY70xP01	DEX70xA50P01	DLX70xA51P01 DLX70xA52P01	DEH50xA48P01 DEH50xA49P01 DEH50xA70P01 DEH70xA48P01 DEH70xA49P01 DEH70xA70P01

Hazardous area electronic indicator

NEW

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