

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.

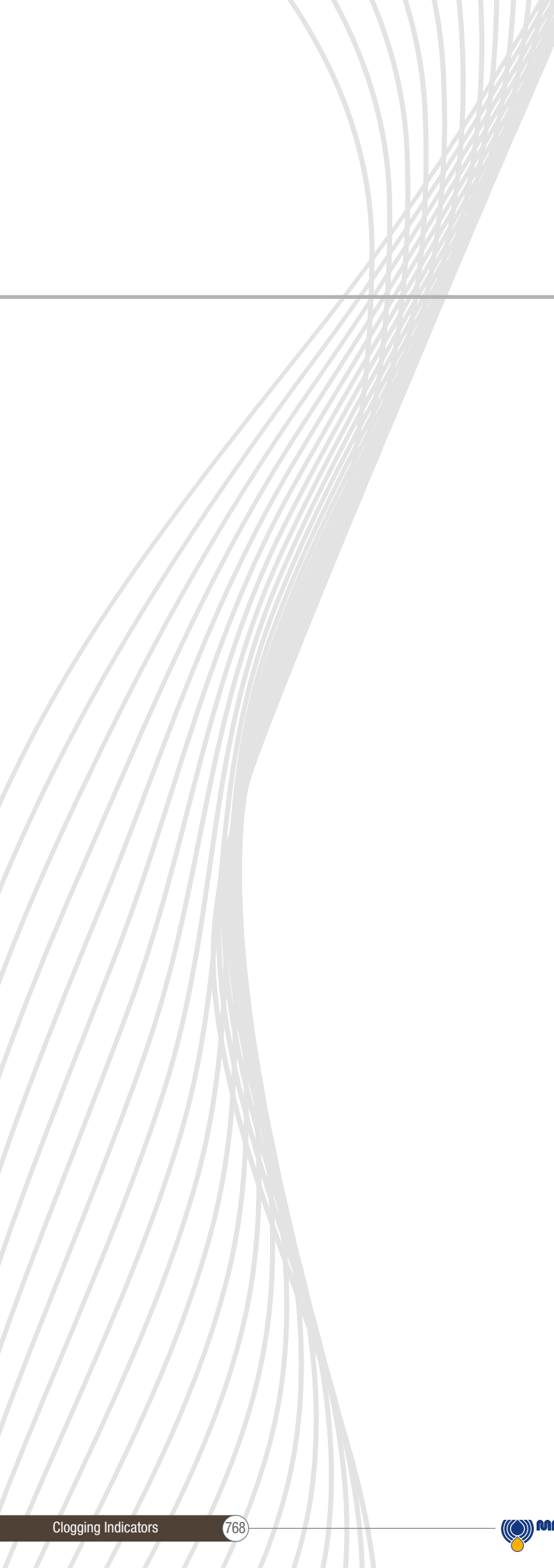
MP Filtri can supply indicators of the following designs:

- 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.

In the following pages you can find a reference guide about the types of clogging indicators available in the different families of MP Filtri's Hydraulic Filtration range of products.





# DESIGNATION, ORDERING CODES & TECHNICAL DATA

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# QUICK REFERENCE GUIDE

## Ordering codes

Filter family	Filter series	Visual indicators	Electrical indicators	Electronic / Electrical-Visual indicators
SUCTION FILTERS	ELIXIR® SFEX 060-110	VVB20P01 VVS20P01	VEB21AA50P01	VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01
	Suction Line SFMC250	VVA20P01 VVR20P01	VEA21xA50P01 VEA21xA50P01UL	VLA21xA51P01 VLA21xA52P01 VLA21xA53P01 VLA21xA71P01
	Without bypass SFSC 500 - 503 - 504 - 505 SFSC 510 - 535 - 540	VVA20P01 VVR20P01	VEA21xA50P01 VEA21xA50P01UL	VLA21xA51P01 VLA21xA52P01 VLA21xA53P01 VLA21xA71P01
RETURN FILTERS	With bypass 1.75 bar ELIXIR® RFEX 060-110	BVA14P01 BVR14P01 BVP15HP01 BVQ15HP01	BEA15HA50P01 BEA15HA50P01UL  BEM15HA41P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01
	Without bypass ELIXIR® RFEX 060-110	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEA20HA50P01UL  BEM20HA41P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 1.75 bar MDHC 250	BVA14P01 BVR14P01 BVP15HP01 BVQ15HP01  DVS12HP01	BEA15HA50P01 BEA15HA50P01UL BEM15HA41P01  DES12HA10P01 DES12HA30P01 DES12HA80P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01
	With bypass 3 bar MDHC 250	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01  DVS25HP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01 BET20HF10P01 BET20HF30P01 BET25HF10P01 BET25HF30P01  DES25HA10P01 DES25HA30P01 DES25HA80P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 1.75 bar MPFX MPTX MPHC	BVA14P01 BVR14P01 BVP15HP01 BVQ15HP01	BEA15HA50P01 BEA15HA50P01UL BEM15HA41P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01
	With bypass 3 bar MPFX MPTX	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01 BET20HF10P01 BET20HF30P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 2.5 bar MPHC	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01 BET20HF10P01 BET20HF30P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 4.5 bar MPLX	DVA20xP01 DVM20xP01	DEA20xA50P01  DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01  DLE20xA50P01 DLE20xF50P01
	Return line FRIC 025 - 040 - 100 - 250 - 630 - 850		DEU20VA50P01UL	DTA20xF70P01 DTI20xA70P01
	Return line FRIC 255	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01

Filter family	Filter series	Visual indicators	Electrical indicators	Electronic / Electrical-Visual indicators	
RETURN / SUCTION FILTERS	MRSX 116 - 165 - 166 Suction line	VVB20P01 VVS20P01	VEB21AA50P01	VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01	
	With bypass 2.5 bar		BEA20HA50P01 BEA20HA50P01UL		
	MRSX 116 - 165 - 166 Return line	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEM20HA41P01  BET25HF10P01 BET25HF30P01 BET25HF50P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01	
With bypass 2.5 bar	LMP 124 MULTIPORT		BEA20HA50P01 BEA20HA50P01UL	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01	
		BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEM20HA41P01	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01	
		DVA20xP01 DVM20xP01	DEA20xA50P01  DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01 DEU20VA50P01UL	DTA20xF70P01 DTI20xA70P01	
SPIN-ON FILTERS	Suction line	MPS 050 - 070 - 100 - 150 MPS 200 - 250 - 300 - 350	VWB20P01 VWS20P01	VEB21AA50P01	VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01
	Return line	MPS 050 - 070 - 100 - 150 MPS 200 - 250 - 300 - 350	BVA14P01 BVR14P01 BVP15HP01 BVQ15HP01	BEA15HA50P01 BEA15HA50P01UL  BEM15HA41P01	BLA15HA51P01 BLA15HA52P01 BLA15HA53P01 BLA15HA71P01
	In-line	MPS 051 - 071 - 101 - 151 MPS 301 - 351	DVA12xP01 DVM12xP01 DVA20xP01 DVM20xP01	DEA12xA50P01 DEM12xAxxP01  DEA20xA50P01 DEM20xAxxP01  DEU20VA50P01UL	DLA12xA51P01 DLA12xA52P01 DLA12xA71P01 DLA20xA51P01 DLA20xA52P01 DLA20xA71P01  DLE12xA50P01 DLE12xF50P01 DLE20xF50P01 DLE20xF50P01  DTA12xF70P01 DTA20xF70P01  DTI12xA70P01 DTI20xA70P01

# QUICK REFERENCE GUIDE

## Ordering codes

Filter family	Filter series	Visual indicators	Electrical indicators	Electronic / Electrical-Visual indicators		
LOW & MEDIUM PRESSURE FILTERS	ELIXIR® HFEX 060-110	DVS25HP01	DES25HA50P01			
	ELIXIR® LFEX 060-080-110-160	DVS25HP01	DES25HA10P01 DES25HA30P01 DES25HA50P01 DES25HA80P01			
	With bypass 3.5 bar	LMP 110 LMP 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 DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01 DEU20VA50P01UL	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01 DTA20xF70P01 DTI20xA70P01	
	With bypass 2.5 bar	LPH 630	DVA20xP01 DVM20xP01	DEA20xA50P01 DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01 DEU20VA50P01UL	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01 DTA20xF70P01 DTI20xA70P01	
	With bypass 1.75 bar	LPH 630	DVA12xP01 DVM12xP01	DEA12xA50P01 DEM12xx10P01 DEM12xx20P01 DEM12xx30P01 DEM12xx35P01	DLA12xA51P01 DLA12xA52P01 DLA12xA71P01 DLE12xA50P01 DLE12xF50P01 DTA12xF70P01 DTI12xA70P01	
	HIGH CAPACITY INDUSTRIAL FILTERS	ELIXIR® HFEX 060-110	DVS40HP01	DES40HA50P01		
		ELIXIR® LFEX 060-080-110-160	DVS40HP01	DES40HA10P01 DES40HA30P01 DES40HA50P01 DES40HA80P01		
		Without bypass	LMP 110 LMP 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 LPH 630	DVA50xP01 DVM50xP01	DEA50xA50P01 DEM50xx10P01 DEM50xx20P01 DEM50xx30P01 DEM50xx35P01 DEU50VA50P01UL	DLA50xA51P01 DLA50xA52P01 DLA50xA71P01 DLE50xA50P01 DLE50xF50P01 DTA50xF70P01 DTI50xA70P01
		With bypass 3.5 bar	MLPX MLDX	DVA20xP01 DVM20xP01	DEA20xA50P01 DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01v	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01 DTA20xF70P01 DTI20xA70P01
		With bypass 1.75 bar	MLPC MLDC	DVA12xP01 DVM12xP01	DEA12xA50P01 DEM12xx10P01 DEM12xx20P01 DEM12xx30P01 DEM12xx35P01	DLA12xA51P01 DLA12xA52P01 DLA12xA71P01 DLE12xA50P01 DLE12xF50P01 DTA12xF70P01 DTI12xA70P01
Without bypass		MLDC MLPC	DVA50xP01 DVM50xP01	DEA50xA50P01 DEM50xx10P01 DEM50xx20P01 DEM50xx30P01 DEM50xx35P01	DLA50xA51P01 DLA50xA52P01 DLA50xA71P01 DLE50xA50P01 DLE50xF50P01 DTA50xF70P01 DTI50xA70P01	

Filter family	Filter series	Visual indicators	Electrical indicators	Electronic / Electrical-Visual indicators			
HIGH PRESSURE FILTERS	With bypass 6 bar	FMP 039 - 065 - 135 - 320 FHP 010 - 011 - 065 - 135 - 350 - 351 - 500 FMMX 050 - 150 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 DEM50xx10P01 DEM50xx20P01 DEM50xx30P01 DEM50xx35P01 DEU50VA50P01UL	DLA50xA51P01 DLA50xA52P01 DLA50xA71P01 DLE50xA50P01 DLE50xF50P01 DTA50xF70P01 DTI50xA70P01		
		Without bypass	FMP 039 - 065 - 135 - 320 FHP 010 - 011 - 065 - 135 - 350 - 351 - 500 FMMX 050 - 150 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 DVA95xP01 DVM70xP01 DVM95xP01	DEA70xA50P01 DEA95xA50P01 DEM70xx10P01 DEM70xx20P01 DEM70xx30P01 DEM70xx35P01 DEU70VA50P01UL DEM95xx10P01 DEM95xx20P01 DEM95xx30P01 DEM95xx35P01	DLA70xA51P01 DLA70xA52P01 DLA70xA71P01 DLA95xA51P01 DLA95xA52P01 DLA95xA71P01 DLE70xA50P01 DLE70xF50P01 DLE95xA50P01 DLE95xF50P01 DTA70xF70P01 DTA95xF70P01 DTI70xA70P01 DTI95xA70P01	
			With bypass 6 bar	FZH 012 - 040	DVZ50xP01	DEZ50xA50P01	DLZ50xA51P01 DLZ50xA52P01
				Without bypass	FZH 012 - 040	DVZ70xP01 DVZ95xP01	DEZ70xA50P01 DEZ95xA50P01
			With bypass 6 bar		FZP 039 - 136 FZB 039 FZM 039 FZD 051	DVX50xP01 DYY50xP01	DEX50xA50P01
				Without bypass	FZP 039 - 136 FZB 039 FZM 039 FZD 010 - 021 - 051	DVX70xP01 DVX95xP01 DYY70xP01 DYY95xP01	DEX70xA50P01 DEX95xA50P01
			FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE		With bypass 6 bar	FMMX 050 - 150	DVA50xP01 DVM50xP01
				Without bypass		FMMX 050 - 150	DVA70xP01 DVA95xP01 DVM70xP01 DVM95xP01
					With bypass 6 bar	FZP 039 - 136	DVX50xP01 DYY50xP01
				Without bypass		FZP 039 - 136	DVX70xP01 DVX95xP01 DYY70xP01 DYY95xP01
With bypass 6 bar	FZH 012 - 040				DVZ50xP01		
	Without bypass	FZH 012 - 040		DVZ70xP01 DVZ95xP01			

Suitable indicator types

**V ACUUM 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.

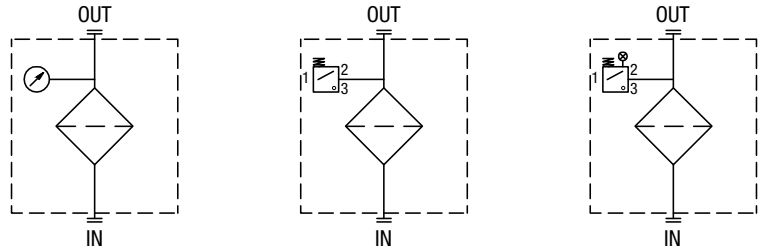
Standard items are produced with R 1/4" EN 10226 connection.

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

Vacuum indicators are identified in the Hydraulic Filtration catalogue and in the Quick Reference Guide table by the letter "V".

Example:

**V** VVB20P01



**B BAROMETRIC (PRESSURE) INDICATORS**

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

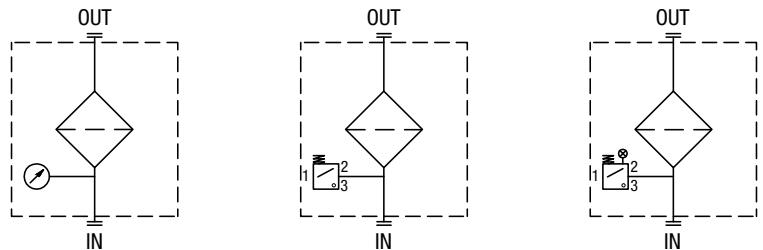
They measure the pressure upstream of the filter element.

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

Barometric (pressure) indicators are identified in the Hydraulic Filtration catalogue and in the Quick Reference Guide table by the letter "B".

Example:

**B** BVA14P01



**D DIFFERENTIAL PRESSURE INDICATORS**

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

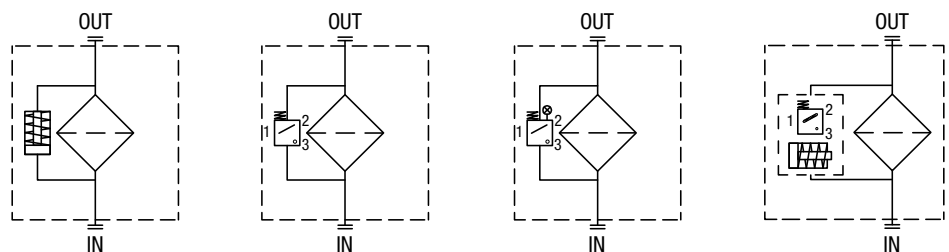
They measure the pressure upstream and downstream of the filter element (differential pressure).

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

Also available in Stainless Steel models. Differential pressure indicators are identified in the Hydraulic Filtration catalogue and in the Quick Reference Guide table by the letter "D".

Example:

**D** DVA20xP01



Designation & Ordering code

APPLICABLE VACUUM INDICATORS BY FILTER SERIES

Filter Series	VEA	VEB	VLA	VLB	VVA	VVB	VVR	VVS
STRC	-	-	-	-	-	-	-	-
MPAC	-	-	-	-	-	-	-	-
SFEX	-	•	-	•	-	•	-	•
SFMC	•	-	•	-	•	-	•	-
SFSC	•	-	•	-	•	-	•	-

VACUUM INDICATORS

Series	Configuration example 1:	VE	A	21	V	A	50	P01	EX
<b>VE</b> Electrical vacuum indicator	Configuration example 2:	VL	B	21	A	A	71	P01	
<b>VL</b> Electrical/Visual vacuum indicator	Configuration example 3:	VV	R	20				P01	
<b>VV</b> Vacuum gauge									

Type VE - VL	Type VV	SFxC	SFEX
<b>A</b> Connection EN 10226 - R1/4"	<b>A</b> Axial connection EN 10226 - R1/4"	•	-
<b>B</b> Connection EN 10226 - R1/8"	<b>B</b> Axial connection EN 10226 - R1/8"	-	•
	<b>R</b> Radial connection EN 10226 - R1/4"	•	-
	<b>S</b> Radial connection EN 10226 - R1/8"	-	•

Vacuum setting	VE	VL	VVA	VVB	VVR	VVS
<b>20</b> 0.20 bar	-	-	•	•	•	•
<b>21</b> 0.21 bar	•	•	-	-	-	-

Seals	VEA - VLA	VEB - VLB	VV
<b>A</b> NBR	•	•	-
<b>V</b> FPM	•	-	-

Thermostat	VE	VL	VV
<b>A</b> Without	•	•	-

Electrical connections	VE	VL	VV
<b>50</b> Connection EN 175301-803	•	-	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	•	-
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	•	-
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	•	-
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	•	-

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	VEA21A	VEA21V	VEB	VL	VV
Without	•	•	•	•	•
<b>EX</b> ATEX certification	•	•	•	-	-
<b>UL</b> UL certification	•	-	-	-	-

Designation & Ordering code

APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
<b>RFEF</b>	•	•	-	•	•	•	•	•
<b>MPFX</b>	•	•	•	•	•	•	•	•
<b>MPLX</b>	-	-	-	-	-	-	-	-
<b>MPTX</b>	•	•	•	•	•	•	•	•
<b>MFBX</b>	-	-	-	-	-	-	-	-
<b>MDHC</b>	•	•	•	•	•	•	•	•
<b>MPHC</b>	•	•	-	•	•	•	•	•
<b>MPIC</b>	-	-	-	-	-	-	-	-
<b>FRIC</b> (all sizes, except 255)	-	-	-	-	-	-	-	-
<b>FRIC 255</b>	•	•	-	•	•	•	•	•
<b>RFMC</b>	-	-	-	-	-	-	-	-

BAROMETRIC (PRESSURE) INDICATORS

Series	Configuration example 1:	BE	A	15	H	A	41	P01	EX
<b>BE</b> Electrical pressure indicator	Configuration example 2:	BL	A	20	H	A	71	P01	
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3:	BV	R	14				P01	
<b>BV</b> Visual pressure indicator	Configuration example 4:	BV	P	20	H			P01	

Type	BE	BL	BV
<b>A</b> Standard type	•	•	<b>A</b> Axial connection pressure gauge
<b>M</b> With wired electrical connection	•	-	<b>R</b> Radial connection pressure gauge
<b>T</b> With thermal switch	•	-	<b>P</b> Visual indicator with automatic reset
			<b>Q</b> Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR-BVE-BVH	BVP-BVQ-BVN-BVO
<b>14</b> 1.4 bar	-	-	-	•	-
<b>15</b> 1.5 bar	•	-	•	-	•
<b>20</b> 2.0 bar	•	•	•	-	•
<b>25</b> 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR-BVE-BVH	BVP-BVQ-BVN-BVO
<b>H</b> HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
<b>A</b> Without thermostat	•	-	•	-
<b>F</b> With thermostat	-	•	-	-

Electrical connections	BEA	BEM	BET	BL	BV
<b>10</b> Connection AMP Superseal series 1,5	-	-	•	-	-
<b>30</b> Connection Deutsch DT-04-2-P	-	-	•	-	-
<b>41</b> Connection via four-core cable	-	•	-	-	-
<b>50</b> Connection EN 175301-803	•	-	-	-	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•	-
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•	-
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•	-
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•	-

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
<b>EX</b> ATEX certification	•	-	-	-
<b>UL</b> UL certification	•	-	-	-



Designation & Ordering code

APPLICABLE VACUUM INDICATORS BY FILTER SERIES

Filter Series	VEB	VLB	VVB	VVS
MRSX	•	•	•	•
LMP124	-	-	-	-

VACUUM INDICATORS

Series	Configuration example 1:	VE	B	21	V	A	50	P01	EX
<b>VE</b> Electrical vacuum indicator	Configuration example 2:	VL	B	21	A	A	71	P01	
<b>VL</b> Electrical/Visual vacuum indicator	Configuration example 3:	VV	S	20				P01	
<b>VV</b> Vacuum gauge									

Type VE - VL	Type VV
<b>B</b> Connection EN 10226 - R1/8"	<b>B</b> Axial connection EN 10226 - R1/8"
	<b>S</b> Radial connection EN 10226 - R1/8"

Vacuum setting	VE	VL	VVB	VVS
<b>20</b> 0.20 bar	-	-	•	•
<b>21</b> 0.21 bar	•	•	-	-

Seals	VEB - VLB	VV
<b>A</b> NBR	•	-
<b>V</b> FPM	-	-

Thermostat	VE	VL	VV
<b>A</b> Without	•	•	-

Electrical connections	VE	VL
<b>50</b> Connection EN 175301-803	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	•
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	•
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	•

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	VEB	VL	VV
Without	•	•	•
<b>EX</b> ATEX certification	•	-	-

**APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES**

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
<b>MRSX</b>	•	•	•	•	•	•	•	•
<b>LMP124</b>	•	•	•	•	•	•	•	•

**BAROMETRIC (PRESSURE) INDICATORS**

Series	Configuration example 1:	BE	M	15	H	A	41	P01	EX
<b>BE</b> Electrical pressure indicator	Configuration example 2:	BL	A	20	H	A	71	P01	
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3:	BV	R	14				P01	
<b>BV</b> Visual pressure indicator	Configuration example 4:	BV	P	20	H			P01	

Type	BE	BL	BV
<b>A</b> Standard type	•	•	<b>A</b> Axial connection pressure gauge
<b>M</b> With wired electrical connection	•	-	<b>R</b> Radial connection pressure gauge
<b>T</b> With thermal switch	•	-	<b>P</b> Visual indicator with automatic reset
			<b>Q</b> Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ
<b>14</b> 1.4 bar	-	-	-	•	-
<b>15</b> 1.5 bar	•	-	•	-	•
<b>20</b> 2.0 bar	•	•	•	-	•
<b>25</b> 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR	BVP-BVQ
<b>H</b> HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
<b>A</b> Without thermostat	•	-	•	-
<b>F</b> With thermostat	-	•	-	-

Electrical connections	BEA	BEM	BET	BL
<b>10</b> Connection AMP Superseal series 1.5	-	-	•	-
<b>30</b> Connection Deutsch DT-04-2-P	-	-	•	-
<b>41</b> Connection via four-core cable	-	•	-	-
<b>50</b> Connection EN 175301-803	•	-	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
<b>EX</b> ATEX certification	•	-	-	-
<b>UL</b> UL certification	•	-	-	-

Designation & Ordering code

**APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES**

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	DTI	DVA	DVM
<b>MRSX</b>	-	-	-	-	-	-	-	-	-
<b>LMP124</b>	•	•	•	•	•	•	•	•	•

**DIFFERENTIAL PRESSURE INDICATORS**

Series	Configuration example 1:								Configuration example 2:		Configuration example 3:		Configuration example 4:		Configuration example 5:	
<b>DE</b> Electrical differential pressure indicator	DE	M	12	H	F	50	P01	DE	U	50	V	A	50	P01	UL	
<b>DL</b> Electrical/Visual differential pressure indicator	DL	E	20	V	A	71	P01	DL	E	20	V	A	71	P01		
<b>DT</b> Electronic differential pressure indicator	DT	A	50	H	F	70	P01	DT	A	50	H	F	70	P01		
<b>DV</b> Visual differential pressure indicator	DV	M	70	V			P01	DV	M	70	V			P01		

Type	DE	DL	DT	DV
<b>A</b> Standard type	•	•	•	<b>A</b> With automatic reset
<b>I</b> I-O Link type	-	-	•	<b>M</b> With manual reset
<b>M</b> With wired electrical connection	•	-	-	
<b>U</b> Standard type 210 bar, UL certified	•	-	-	
<b>E</b> For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
<b>20</b> 2.0 bar	•	•	•	•	•	•	•	•

Seals	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
<b>H</b> HNBR	•	•	-	•	•	•	•	•
<b>V</b> FPM	•	•	•	•	•	•	•	•

Thermostat	DEA	DEM	DEU	DLA	DLE	DTA	DTI
<b>A</b> Without thermostat	•	•	•	•	•	-	•
<b>F</b> With thermostat	-	•	-	-	•	•	-

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

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	DEU	OTHERS
Without	-	•
<b>UL</b> UL certification	•	-

**PLUGS**

Series	Configuration example
<b>T2</b> Plug	T2 H

Seals
<b>H</b> HNBR
<b>V</b> FPM

**APPLICABLE VACUUM INDICATORS BY FILTER SERIES**

Filter Series	VEA	VEB	VLA	VLB	VVA	VVB	VVR	VVS
MPS	-	•	-	•	-	•	-	•

**VACUUM INDICATORS**

Series	Configuration example 1:	VE	B	21	A	A	50	P01	EX
<b>VE</b> Electrical vacuum indicator	Configuration example 2:	VL	B	21	A	A	71	P01	
<b>VL</b> Electrical/Visual vacuum indicator	Configuration example 3:	VV	S	20				P01	
<b>VV</b> Vacuum gauge									

Type VE - VL	Type VV
<b>B</b> Connection EN 10226 - R1/8"	<b>B</b> Axial connection EN 10226 - R1/8"
	<b>S</b> Radial connection EN 10226 - R1/8"

Vacuum setting	VE	VL	VVB	VVS
<b>20</b> 0.20 bar	-	-	•	•
<b>21</b> 0.21 bar	•	•	-	-

Seals	VEB - VLB	VV
<b>A</b> NBR	•	-
<b>V</b> FPM	-	-

Thermostat	VE	VL	VV
<b>A</b> Without	•	•	-

Electrical connections	VE	VL
<b>50</b> Connection EN 175301-803	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	•
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	•
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	•

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	VEB	VL	VV
Without	•	•	•
<b>EX</b> ATEX certification	•	-	-

Designation & Ordering code

APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
MPS	•	•	•	•	•	•	•	•

BAROMETRIC (PRESSURE) INDICATORS

Series	Configuration example 1:	BE	M	15	H	A	41	P01	EX
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
			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 2.0 bar	•	•	•	-	•
25 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR	BVP-BVQ
H HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
A Without thermostat		•	-	•
F With thermostat		-	•	-

Electrical connections	BEA	BEM	BL
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 Vac	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	•

Option
P01 MP Filtri standard
Pxx Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
EX ATEX certification	•	-	-	-
UL UL certification	•	-	-	-

**APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES**

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	DTI	DVA	DVM
MPS	•	•	•	•	•	•	•	•	•

**DIFFERENTIAL PRESSURE INDICATORS**

Series	Configuration example 1:	DE	M	12	H	F	50	P01	
DE Electrical differential pressure indicator	Configuration example 2:	DE	U	50	V	A	50	P01	UL
DL Electrical/Visual differential pressure indicator	Configuration example 3:	DL	E	20	V	A	71	P01	
DT Electronic differential pressure indicator	Configuration example 4:	DT	A	50	H	F	70	P01	
DV Visual differential pressure indicator	Configuration example 5:	DV	M	70	V			P01	

Type	DE	DL	DT	DV
A Standard type	•	•	•	A With automatic reset
I I-O Link type	-	-	•	M With manual reset
M With wired electrical connection	•	-	-	
U Standard type 210 bar, UL certified	•	-	-	
E For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
12 1.2 bar	•	•	-	•	•	•	•	•
20 2.0 bar	•	•	•	•	•	•	•	•

Seals	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
H HNBR	•	•	-	•	•	•	•	•
V FPM	•	•	•	•	•	•	•	•

Thermostat	DEA	DEM	DEU	DLA	DLE	DTA	DTI
A Without thermostat	•	•	•	•	•	-	•
F With thermostat	-	•	-	-	•	•	-

Electrical connections	DEA	DEM	DEU	DLA	DLE	DT
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	-	•	-	-	-	-
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

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

**PLUGS**

Series	Configuration example	T2	H
T2 Plug			
Seals			
H HNBR			
V FPM			

Designation & Ordering code

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DES *10-*30-*80	DES *50	DLA	DLE	DTA	DTI	DVA	DVM	DVS
HFEF	-	-	-	-	•	-	-	-	-	-	-	•
LFEX	-	-	-	•	•	-	-	-	-	-	-	•
LMP 110	•	•	•	-	-	•	•	•	•	•	•	-
LMP 112 / 123 MULTIPOINT	•	•	•	-	-	•	•	•	•	•	•	-
LMP 210 - 211	•	•	•	-	-	•	•	•	•	•	•	-
LMP 400 - 401	•	•	•	-	-	•	•	•	•	•	•	-
LMP 430 - 431	•	•	•	-	-	•	•	•	•	•	•	-
LMP 950 - 951	•	•	•	-	-	•	•	•	•	•	•	-
LMP 952 - 953 - 954	•	•	•	-	-	•	•	•	•	•	•	-
LMD 211	•	•	•	-	-	•	•	•	•	•	•	-
LMD 400 - 401 & 431	•	•	•	-	-	•	•	•	•	•	•	-
LMD 951	•	•	•	-	-	•	•	•	•	•	•	-
LDP-LDD	•	•	•	-	-	•	•	•	•	•	•	-
LMP 900 - 901	•	•	•	-	-	•	•	•	•	•	•	-
LMP 902 - 903	•	•	•	-	-	•	•	•	•	•	•	-
LPH 630	•	•	•	-	-	•	•	•	•	•	•	-

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:								Configuration example 2:		Configuration example 3:		Configuration example 4:		Configuration example 5:	
<b>DE</b> Electrical differential pressure indicator	DE	M	20	H	F	50	P01	DE	U	50	V	A	50	P01	UL	
<b>DL</b> Electrical/Visual differential pressure indicator	DL	E	50	V	A	71	P01									
<b>DT</b> Electronic differential pressure indicator	DT	A	20	H	F	70	P01									
<b>DV</b> Visual differential pressure indicator	DV	M	50	V			P01									

Type	DE	DL	DT	DV
<b>A</b> Standard type	•	•	•	<b>A</b> With automatic reset
<b>I</b> I-O Link type	-	-	•	<b>M</b> With manual reset
<b>M</b> With wired electrical connection	•	-	-	<b>S</b> With automatic reset
<b>U</b> Standard type 210 bar, UL certified	•	-	-	
<b>E</b> For high power supply	-	•	-	
<b>S</b> Compact version	•	-	-	

Pressure setting	DEA	DEM	DEU	DES	DLA	DLE	DTA	DTI	DVA	DVM	DVS
<b>12</b> 1.2 bar	•	•	-	•	•	•	•	•	•	•	•
<b>20</b> 2.0 bar	•	•	•	-	•	•	•	•	•	•	-
<b>25</b> 2.5 bar	-	-	-	-	-	-	-	-	-	-	•
<b>40</b> 4.0 bar	-	-	-	•	-	-	-	-	-	-	•
<b>50</b> 5.0 bar	•	•	•	-	•	•	•	•	•	•	-

Seals	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS
<b>H</b> HNBR	•	•	-	•	•	•	•	•	•
<b>V</b> FPM	•	•	•	-	•	•	•	•	-

Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DTA	DTI
<b>A</b> Without thermostat	•	•	•	•	•	•	-	•
<b>F</b> With thermostat	-	•	-	-	-	•	•	-

Electrical connections	DEA	DEM	DEU	DES	DLA	DLE	DT
<b>10</b> Connection AMP Superseal series 1.5	-	•	-	•	-	-	-
<b>20</b> Connection AMP Timer Junior	-	•	-	-	-	-	-
<b>30</b> Connection Deutsch DT-04-2-P	-	•	-	•	-	-	-
<b>35</b> Connection Deutsch DT-04-3-P	-	•	-	-	-	-	-
<b>50</b> Connection EN 175301-803	•	-	•	•	-	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	-	•	-	-
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	-	•	-	-
<b>70</b> Connection IEC 61076-2-101 D (M12)	-	-	-	-	-	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	-	•	-	-
<b>80</b> Connection Stud #10-32 UNF	-	-	-	•	-	-	-

Option	DEU	OTHERS
<b>P01</b> MP Filtri standard	-	•
<b>Pxx</b> Customized	-	-

PLUGS

Series	Example:	T2	H	Seals	T2	T4
<b>T2</b> Plug		•	•	<b>A</b> NBR	-	•
<b>T4</b> Plug		•	•	<b>H</b> HNBR	•	-
		•	•	<b>V</b> FPM	•	-

Certifications	DEU	OTHERS
Without	-	•
<b>UL</b> UL certification	•	-

### APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DLA	DLE	DTA	DTI	DVA	DVM
<b>MLPX</b>	•	•	•	•	•	•	•	•
<b>MLPC</b>	•	•	•	•	•	•	•	•
<b>MLDX</b>	•	•	•	•	•	•	•	•
<b>MLDC</b>	•	•	•	•	•	•	•	•

### DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:	DE	M	20	H	F	50	P01
<b>DE</b> Electrical differential pressure indicator	Configuration example 2:	DT	I	50	V	A	70	P01
<b>DL</b> Electrical/Visual differential pressure indicator	Configuration example 3:	DL	E	50	V	A	71	P01
<b>DT</b> Electronic differential pressure indicator	Configuration example 4:	DT	A	20	H	F	70	P01
<b>DV</b> Visual differential pressure indicator	Configuration example 5:	DV	M	50	V			P01

Type	DE	DL	DT	DV
<b>A</b> Standard type	•	•	•	<b>A</b> With automatic reset
<b>I</b> I-O Link type	-	-	•	<b>M</b> With manual reset
<b>M</b> With wired electrical connection	•	-	-	
<b>E</b> For high power supply	-	•	-	

Pressure setting	DEA	DEM	DLA	DLE	DTA	DTI	DVA	DVM
<b>12</b> 1.2 bar	•	•	•	•	•	•	•	•
<b>20</b> 2.0 bar	•	•	•	•	•	•	•	•
<b>25</b> 2.5 bar	-	-	-	-	-	-	-	-
<b>40</b> 4.0 bar	-	-	-	-	-	-	-	-
<b>50</b> 5.0 bar	•	•	•	•	•	•	•	•

Seals	DEA	DEM	DL	DT	DVA	DVM
<b>H</b> HNBR	•	•	•	•	•	•
<b>V</b> FPM	•	•	•	•	•	•

Thermostat	DEA	DEM	DLA	DLE	DTA	DTI
<b>A</b> Without thermostat	•	•	•	•	-	•
<b>F</b> With thermostat	-	•	-	•	•	-

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

**Option**  
**P01** MP Filtri standard  
**Pxx** Customized

### PLUGS

Series	Example:	T2	H
<b>T2</b> Plug			
Seals			
<b>A</b> NBR	-		
<b>H</b> HNBR	•		
<b>V</b> FPM	•		

# DIFF. PRESS. INDICATORS

## HIGH PRESSURE FILTERS

### Designation & Ordering code

#### APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	DTI	DVA	DVM
FMMX	•	•	•	•	•	•	•	•	•
FMM	•	•	•	•	•	•	•	•	•
FHA	•	•	•	•	•	•	•	•	•
FMP 039	•	•	•	•	•	•	•	•	•
FMP	•	•	•	•	•	•	•	•	•
FHP	•	•	•	•	•	•	•	•	•
FHM	•	•	•	•	•	•	•	•	•
FHB	•	•	•	•	•	•	•	•	•
FHF	•	•	•	•	•	•	•	•	•
FHD	•	•	•	•	•	•	•	•	•
HPB	-	-	-	-	-	-	-	-	-

#### DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:	DE	M	12	H	F	50	P01	
<b>DE</b> Electrical differential pressure indicator	Configuration example 2:	DE	U	50	V	A	50	P01	UL
<b>DL</b> Electrical/Visual differential pressure indicator	Configuration example 3:	DL	E	20	V	A	71	P01	
<b>DT</b> Electronic differential pressure indicator	Configuration example 4:	DT	A	50	H	F	70	P01	
<b>DV</b> Visual differential pressure indicator	Configuration example 5:	DV	M	70	V			P01	

Type	DE	DL	DT	DV
<b>A</b> Standard type	•	•	•	<b>A</b> With automatic reset
<b>I</b> I-O Link type	-	-	•	<b>M</b> With manual reset
<b>M</b> With wired electrical connection	•	-	-	
<b>U</b> Standard type 210 bar, UL certified	•	-	-	
<b>E</b> For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
<b>50</b> 5.0 bar	•	•	•	•	•	•	•	•
<b>70</b> 7.0 bar	•	•	•	•	•	•	•	•
<b>95</b> 9.5 bar	•	•	-	•	•	•	•	•

Seals	DEA	DEM	DEU	DLA	DLE	DT	DVA	DVM
<b>H</b> HNBR	•	•	-	•	•	•	•	•
<b>V</b> FPM	•	•	•	•	•	•	•	•

Thermostat	DEA	DEM	DEU	DLA	DLE	DTA	DTI
<b>A</b> Without thermostat	•	•	•	•	•	-	•
<b>F</b> With thermostat	-	•	-	-	•	•	-

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

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	DEU	OTHERS
Without	-	•
<b>UL</b> UL certification	•	-

#### PLUGS

Series	Configuration example	T2	H
<b>T2</b> Plug			
Seals			
<b>H</b> HNBR			
<b>V</b> FPM			



# DIFFERENTIAL PRESSURE INDICATORS

## FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

### Designation & Ordering code

#### APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEH	DVA	DVM	DVX	DVY	DVZ
<b>FMMX</b>	•	•	•	-	-	-
<b>FZP</b>	•	-	-	•	•	-
<b>FZH</b>	-	-	-	-	-	•
<b>FZX</b>	-	-	-	-	-	-

#### DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1: DE H 50 F A 48 P01						
	Configuration example 2: DV X 70 V P01						
<b>DE</b> Electrical differential pressure indicator							
<b>DV</b> Visual differential pressure indicator							
Type	DE	DV					
<b>A</b> With automatic reset	-	•					
<b>M</b> With manual reset	-	•					
<b>H</b> Stainless steel hazardous area 420 bar	•	-					
<b>X</b> Stainless steel standard type 420 bar	-	•					
<b>Y</b> Stainless steel optional type 420 bar	-	•					
<b>Z</b> Stainless steel standard type 700 bar	-	•					
Pressure setting	DEH	DVA	DVM	DVX	DVY		
<b>50</b> 5.0 bar	•	•	•	•	•		
<b>70</b> 7.0 bar	•	•	•	•	•		
<b>95</b> 9.5 bar	-	•	•	•	•		
Seals	DEH	DVA	DVM	DVX	DVY		
<b>H</b> HNBR	-	•	•	•	•		
<b>V</b> FPM	•	•	•	•	•		
<b>F</b> MFQ	•	-	-	-	-		
Thermostat	DEH						
<b>A</b> Without thermostat	•						
Electrical connections	DEH						
<b>48</b> Connection via three-core cable - fitting M20x1.5	•						
<b>49</b> Connection via four-core cable - fitting 1/2" NPT	•						
<b>70</b> Connection IEC 61076-2-101 D (M12)	•						

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

#### PLUGS

Series	Configuration example X2 H		
<b>T2</b> Plug			
<b>X2</b> Stainless Steel plug 420 bar			
<b>X3</b> Stainless Steel plug 700 bar (only for FZH)			
Seals	T2	X2	X3
<b>H</b> HNBR	•	•	•
<b>V</b> FPM	•	•	•
<b>F</b> MFQ	-	•	•



## Technical data

VE*50 (EX)	
<b>Electrical Vacuum Indicator</b> Connection: EN 175301-803	
R	Ordering code
EN 10226 - R1/4"	VE A 21 x A 50 P01 VE A 21 x A 50 P01 EX
EN 10226 - R1/8"	VE B 21 A A 50 P01 VE B 21 A A 50 P01 EX

**Hydraulic symbol**

**Electrical symbol**

- Certification: ATEX, IECEx  
- Certification included in EX version

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: VEA: NBR/FPM  
VEB: 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  
HFB and 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

VEA50 UL	
<b>Electrical Vacuum Indicator</b> Connection: EN 175301-803	
R	Ordering code
EN 10226 - R1/4"	VE A 21 A A 50 P01 UL

**Hydraulic symbol**

**Electrical symbol**

- Certification: UL  
- Certification included as standard

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: VEA: NBR/FPM  
VEB: 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  
HFB and 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

VL*51 - VL*52 - VL*53	
<b>Electrical/Visual Vacuum Indicator</b> Connection: EN 175301-803	
51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc 53: Transparent base with lamps 230 Vac	
R	Ordering code
EN 10226 - R1/4"	VL A 21 x A xx P01
EN 10226 - R1/8"	VL B 21 A A xx P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

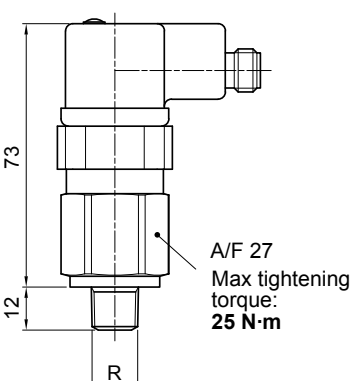
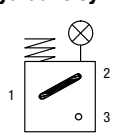
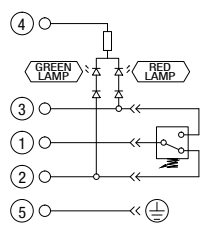
- Body: Brass
- Base: Transparent polyamide
- Contacts: Brass - Polyamide
- Seal: VLA: NBR/FPM  
VLB: NBR

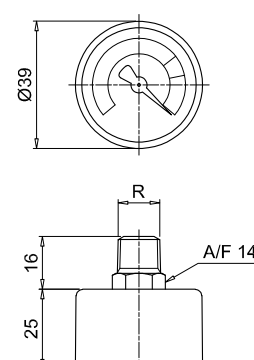

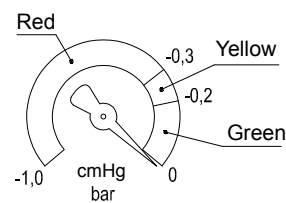
**Technical data**

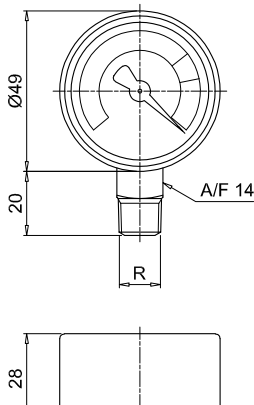

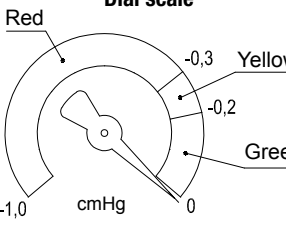
- Vacuum setting: 0.21 bar ±10%
- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**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	
<b>Electrical/Visual Vacuum Indicator</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	
Connections	Indicator code
EN 10226 - R1/4"	VL A 21 x A 71 P01
EN 10226 - R1/8"	VL B 21 A A 71 P01
	
<b>Hydraulic symbol</b> 	
<b>Electrical symbol</b> 	
<b>Materials</b> - Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: VLA: NBR/FPM VL B: NBR	
<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529	
<b>Electrical data</b> - Electrical connection: IEC 61076-2-101 D (M12) - Lamps: 24 Vdc (black base) - Resistive load: 0.4 A / 24 Vdc	

VVA - VVB									
<b>Axial Vacuum Gauge</b>									
R	Ordering code								
EN 10226 - R1/4"	VVA 20 P01								
EN 10226 - R1/8"	VVB 20 P01								
									
<b>Hydraulic symbol</b> 									
<b>Dial scale</b> 									
<b>Conversion to SI units</b> <table border="1" style="margin: auto;"> <thead> <tr style="background-color: #cccccc;"> <th>[cmHg]</th> <th>[bar]</th> </tr> </thead> <tbody> <tr> <td>-12</td> <td>-0.16</td> </tr> <tr> <td>-18</td> <td>-0.24</td> </tr> <tr> <td>-76</td> <td>-1.01</td> </tr> </tbody> </table>		[cmHg]	[bar]	-12	-0.16	-18	-0.24	-76	-1.01
[cmHg]	[bar]								
-12	-0.16								
-18	-0.24								
-76	-1.01								
<b>Materials</b> - Case: Black plastic - Window: Clear plastic - Dial: White plastic - Pointer: Black plastic - Pressure connection: Cu-alloy - Pressure element: Bourdon tube Cu-alloy soft soldered, C type - Movement: Cu-alloy									
<b>Technical data</b> - Max working pressure: Steady: -0.7 bar Fluctuating: -0.6 bar Short time: -1.0 bar - Working temperature: Ambienti from -40 °C to +60 °C Fluid max + 60 °C Storage from -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529									

VVR - VVS										
<b>Radial Vacuum Gauge</b>										
R	A/F	Ordering code								
EN 10226 - R1/4"	14	VVR 20 P01								
EN 10226 - R1/8"	11	VVS 20 P01								
										
<b>Hydraulic symbol</b> 										
<b>Dial scale</b> 										
<b>Conversion to SI units</b> <table border="1" style="margin: auto;"> <thead> <tr style="background-color: #cccccc;"> <th>[cmHg]</th> <th>[bar]</th> </tr> </thead> <tbody> <tr> <td>-12</td> <td>-0.16</td> </tr> <tr> <td>-18</td> <td>-0.24</td> </tr> <tr> <td>-76</td> <td>-1.01</td> </tr> </tbody> </table>			[cmHg]	[bar]	-12	-0.16	-18	-0.24	-76	-1.01
[cmHg]	[bar]									
-12	-0.16									
-18	-0.24									
-76	-1.01									
<b>Materials</b> - Case: Black plastic - Window: Clear plastic - Dial: White plastic - Pointer: Black plastic - Pressure connection: Cu-alloy - Pressure element: Bourdon tube Cu-alloy soft soldered, C type - Movement: Cu-alloy										
<b>Technical data</b> - Max working pressure: Steady: -0.7 bar Fluctuating: -0.6 bar Short time: -1.0 bar - Working temperature: Ambienti from -40 °C to +60 °C Fluid max + 60 °C Storage from -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529										

# BAROMETRIC (PRESSURE) INDICATORS

## Dimensions

BEA*50 (EX)	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
1.5 bar ±10%	BE A 15 H A 50 P01 BE A 15 H A 50 P01 EX
2.0 bar ±10%	BE A 20 H A 50 P01 BE A 20 H A 50 P01 EX

A/F 27  
Max tightening torque: 25 N·m

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

- Certification: ATEX, IECEx  
- Certification included in EX version

**Materials**

- Body: Brass
- Base: Black polyamide
- 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  
HFB and 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

BEA*50 UL	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
1.5 bar ±10%	BE A 15 H A 50 P01 UL
2.0 bar ±10%	BE A 20 H A 50 P01 UL

A/F 27  
Max tightening torque: 25 N·m

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

- Certification: UL  
- Certification included as standard

**Materials**

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

**Technical data**

- Max working pressure: 12 bar
- Proof pressure: 40 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and 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

BEM*41	
<b>Electrical Pressure Indicator</b> Connection via four-core cable	
Settings	Ordering code
1.5 bar ±10%	BE M 15 H A 41 P01
2.0 bar ±10%	BE M 20 H A 41 P01

A/F 27  
Max tightening torque: 25 N·m

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

- CE certification  
On request this indicator can be provided with main connectors in use for wirings.

**Materials**

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

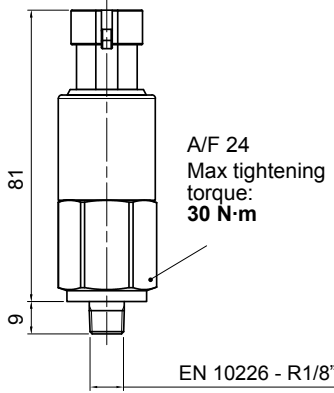
**Technical data**

- Max working pressure: 40 bar
- Proof pressure: 60 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree of protection: IP67 according to EN 60529

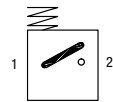
**Electrical data**

- Electrical connection: Four-core cable
- Resistive load: 5 A / 14 Vdc  
4 A / 30 Vdc  
5 A / 125 Vac  
4 A / 250 Vac

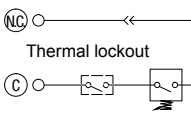
BET*F10	
<b>Electrical Pressure Indicator</b> Connection AMP Superseal series 1.5	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 10 P01
2.5 bar $\pm 10\%$	BET 25 H F 10 P01



**Hydraulic symbol**



**Electrical symbol**



**Materials**

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

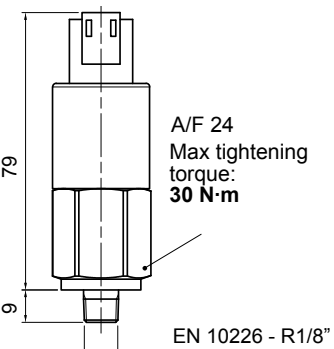
**Technical data**

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

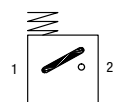
**Electrical data**

- Electrical connection: AMP Superseal series 1.5
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

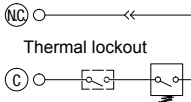
BET*F30	
<b>Electrical Pressure Indicator</b> Deutsch DT-04-2-P	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 30 P01
2.5 bar $\pm 10\%$	BET 25 H F 30 P01



**Hydraulic symbol**



**Electrical symbol**



**Materials**

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

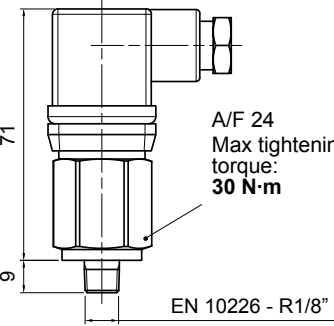
**Technical data**

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

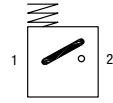
**Electrical data**

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

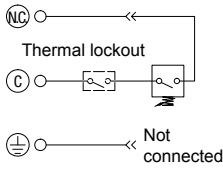
BET*F50	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 50 P01
2.5 bar $\pm 10\%$	BET 25 H F 50 P01



**Hydraulic symbol**



**Electrical symbol**



**Materials**

- Body: Brass
- Base: Black polyamide
- 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 HFB and 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

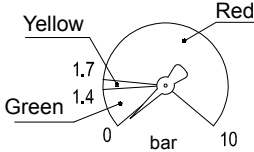
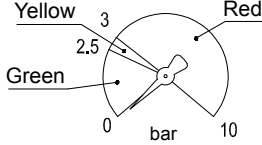
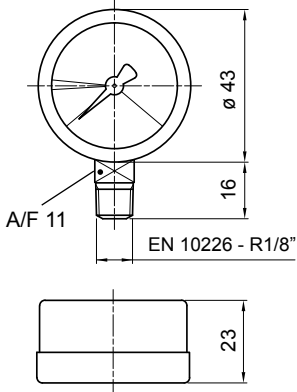
# BAROMETRIC (PRESSURE) INDICATORS

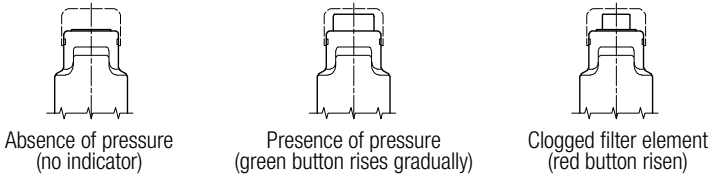
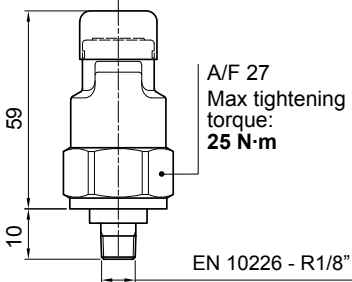
## Dimensions

BL*51 - BL*52 - BL*53	
<b>Electrical/Visual Pressure Indicator</b> Connection: EN 175301-803	
51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc 53: Transparent base with lamps 230 Vac	
Settings	Ordering code
1.5 bar $\pm$ 10%	BL A 15 H A xx P01
2.0 bar $\pm$ 10%	BL A 20 H A xx P01
<b>Hydraulic symbol</b> 	
<b>Electrical symbol</b> 	
<b>Materials</b> - Body: Brass - Base: Transparent polyamide - Contacts: Silver - Seal: HNBR	
<b>Technical data</b> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529	
<b>Electrical data</b> - 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	

BL*71	
<b>Electrical/Visual Pressure Indicator</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	
Settings	Ordering code
1.5 bar $\pm$ 10%	BL A 15 H A 71 P01
2.0 bar $\pm$ 10%	BL A 20 H A 71 P01
<b>Hydraulic symbol</b> 	
<b>Electrical symbol</b> 	
<b>Materials</b> - Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR	
<b>Technical data</b> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529	
<b>Electrical data</b> - Electrical connection: IEC 61076-2-101 D (M12) - Lamps: 24 Vdc (black base) - Resistive load: 0.4 A / 24 Vdc	

BVA	
<b>Axial Pressure Gauge</b>	
Settings	Ordering code
1.4 bar $\pm$ 10%	BV A 14 P01
2.5 bar $\pm$ 10%	BV A 25 P01
<b>Hydraulic symbol</b> 	
<b>Dial scale</b> BV A 14 P01 	
BV A 25 P01 	
<b>Materials</b> - Case: Painted Steel - Window: Clear plastic - Dial: Painted Steel - Pointer: Black plastic - Pressure connection: Brass - Pressure element: Bourdon tube Cu-alloy soft soldered, C type - Movement: Cu-alloy	
<b>Technical data</b> - Max working pressure: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar - Working temperature: Ambient from -40 °C to +60 °C Fluid max +60 °C Storage from -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529	

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

BVP - BVQ		Hydraulic symbol	Materials
<b>Visual Pressure Indicator</b>			
BVP - Automatic reset BVQ - Manual reset			
Setting	Ordering code	<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree of protection: IP45 according to EN 60529	
1.5 bar ±10%	BV P 15 H P01 BV Q 15 H P01		
2.0 bar ±10%	BV P 20 H P01 BV Q 20 H P01	<b>Signals</b> 	
			

# DIFFERENTIAL PRESSURE INDICATORS

## Dimensions

DEA*50	
<b>Electrical Differential Pressure Indicator</b> Connection: EN 175301-803	
Settings	Ordering code
1.2 bar ±10%	DE A 12 x A 50 P01
2.0 bar ±10%	DE A 20 x A 50 P01
5.0 bar ±10%	DE A 50 x A 50 P01
7.0 bar ±10%	DE A 70 x A 50 P01
9.5 bar ±10%	DE A 95 x A 50 P01

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

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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  
HFB and 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	
<b>Hazardous Area Electrical Differential Pressure Indicator</b> Connection via three-core cable - cable fitting M20x1.5	
Settings	Ordering code
2.0 bar ±10%	DE H 20 x A 48 P01
5.0 bar ±10%	DE H 50 x A 48 P01
7.0 bar ±10%	DE H 70 x A 48 P01

A/F 25  
Max tightening torque: **100 N·m**

M20 x 1.5  
flexible cable ≈ 5000 to A

min. 110  
88

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: AISI 316L
- Contacts: Rhodium
- Seal: FPM - MFQ

**Technical data**

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Temperature range: T4=Tamb -60 °C to +125 °C (-76 to 257 °F)  
T6=Tamb -60 °C to +80 °C (-76 to 176 °F)
- Degree of protection: IP 66/67/68 according to EN 60529
- Connection type: Three-core cable, fitting M20x1.5
- Contact type: SPCO/SPDT (Hermetically sealed - Volt-free contacts)

**Electrical data**

- Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vac
- Electrical Ratings: Ui = 30 Vdc / li = 250 mA / Pi = 1.3 W

**Atex Rating**

- II 1 GD Ex ia IIC T6 Ga
- Ex ia IIC T4 Ga
- Ex ia IIIC T<sub>200</sub> 85 °C Da
- Ex ia IIIC T<sub>200</sub> 135 °C Da

**IECEx Rating**

- Ex ia IIC T6 Ga
- Ex ia IIC T4 Ga
- Ex ia IIIC T<sub>200</sub> 85 °C Da
- Ex ia IIIC T<sub>200</sub> 135 °C Da

**Certification / Approvals:** ATEX, IECEx, EAC TR CU  
- Certification included as standard

DEH*49	
<b>Hazardous Area Electrical Differential Pressure Indicator</b> Connection via four-core cable - cable fitting 1/2" NPT	
Settings	Ordering code
2.0 bar ±10%	DE H 20 x A 49 P01
5.0 bar ±10%	DE H 50 x A 49 P01
7.0 bar ±10%	DE H 70 x A 49 P01

A/F 25  
Max tightening torque: **100 N·m**

1/2" NPT  
flexible cable ≈ 5000 to A

min. 110  
88

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: AISI 316L
- Contacts: Rhodium
- Seal: FPM - MFQ

**Technical data**

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Temperature range: T4=Tamb -60 °C to +120 °C (-76 to 248 °F)  
T6=Tamb -60 °C to +70 °C (-76 to 158 °F)  
From -60 °C to +105 °C (-76 to 221 °F) : UL/CSA
- Degree of protection: IP 66/67/68 according to EN 60529
- Connection type: Four-core cable, fitting 1/2" NPT
- Contact type: SPCO/SPDT (Hermetically sealed - Volt-free contacts)

**Electrical data**

- Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vac
- Electrical Ratings: Ui = 150 Vac/dc / Pi = 20 W

**Atex Rating**

- II 2 GD Ex db IIC T6 Gb
- Ex db IIC T4 Gb
- Ex tb IIIC T85 °C Db
- Ex tb IIIC T135 °C Db

**IECEx Rating**

- Ex db IIC T6 Gb
- Ex db IIC T4 Gb
- Ex tb IIIC T85 °C Db
- Ex tb IIIC T135 °C Db

**UL/CSA Rating**

- Class I Div 1 Groups A, B, C, & D
- Class II Div 1 Groups E, F, & G
- Class III Hazardous Locations

**Certification / Approvals:** ATEX, IECEx, EAC TR CU, UL/CSA  
- Certification included as standard

DEH*70		Hydraulic symbol	Materials
<b>Hazardous Area</b> <b>Electrical Differential Pressure Indicator</b> Connection IEC 61076-2-101 D (M12)			
Settings	Ordering code		
2.0 bar ±10%	DE H 20 x A 70 P01	<b>Electrical symbol</b> 	<b>Technical data</b> - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Temperature range: T6=Tamb -60 °C to +80 °C (-76 to 176 °F) - Degree of protection: IP 66/67 according to EN 60529 - Connection type: IEC 61076-2-101 D (M12) - Contact type: SPCO/SPDT (Hermetically sealed - Volt-free contacts)
5.0 bar ±10%	DE H 50 x A 70 P01		
7.0 bar ±10%	DE H 70 x A 70 P01		
			<b>Electrical data</b> - Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vdc - Electrical Ratings: Ui = 30 Vdc / li = 250 mA / Pi = 1.3 W
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	

DEM*F10		Hydraulic symbol	Materials
<b>Electrical Differential Pressure Indicator</b> Connection: AMP Superseal series 1.5			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x F 10 P01	<b>Electrical symbol</b> 	<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree protection: IP66 according to EN 60529
2.0 bar ±10%	DE M 20 x F 10 P01		
5.0 bar ±10%	DE M 50 x F 10 P01		
7.0 bar ±10%	DE M 70 x F 10 P01		
9.5 bar ±10%	DE M 95 x F 10 P01		
			<b>Electrical data</b> - 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")
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	

DEM*F20		Hydraulic symbol	Materials
<b>Electrical Differential Pressure Indicator</b> AMP Time junior			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x F 20 P01	<b>Electrical symbol</b> 	<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree protection: IP66 according to EN 60529
2.0 bar ±10%	DE M 20 x F 20 P01		
5.0 bar ±10%	DE M 50 x F 20 P01		
7.0 bar ±10%	DE M 70 x F 20 P01		
9.5 bar ±10%	DE M 95 x F 20 P01		
			<b>Electrical data</b> - 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")
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	

# DIFFERENTIAL PRESSURE INDICATORS

## Dimensions

DEM*F30	
<b>Electrical Differential Pressure Indicator</b> Deutsch DT-04-2-P	
Settings	Ordering code
1.2 bar ±10%	DE M 12 x F 30 P01
2.0 bar ±10%	DE M 20 x F 30 P01
5.0 bar ±10%	DE M 50 x F 30 P01
7.0 bar ±10%	DE M 70 x F 30 P01
9.5 bar ±10%	DE M 95 x F 30 P01

A/F 28  
Max tightening torque: 65 N·m

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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 HFB and 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*F35	
<b>Electrical Differential Pressure Indicator</b> Deutsch DT-04-3-P	
Settings	Ordering code
1.2 bar ±10%	DE M 12 x F 35 P01
2.0 bar ±10%	DE M 20 x F 35 P01
5.0 bar ±10%	DE M 50 x F 35 P01
7.0 bar ±10%	DE M 70 x F 35 P01
9.5 bar ±10%	DE M 95 x F 35 P01

A/F 28  
Max tightening torque: 65 N·m

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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 HFB and 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")

DEM*A10	
<b>Electrical Differential Pressure Indicator</b> Connection: AMP Superseal series 1.5	
Settings	Ordering code
1.2 bar ±10%	DE M 12 x A 10 P01
2.0 bar ±10%	DE M 20 x A 10 P01
5.0 bar ±10%	DE M 50 x A 10 P01
7.0 bar ±10%	DE M 70 x A 10 P01
9.5 bar ±10%	DE M 95 x A 10 P01

A/F 28  
Max tightening torque: 65 N·m

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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 HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529

**Electrical data**

- Electrical connection: AMP Superseal series 1.5
- Resistive load: 0.2 A / 115 Vdc
- Switching type: Normally open contacts (NC on request)

**DEM\*A20**  
**Electrical Differential Pressure Indicator**  
AMP Time junior

Settings	Ordering code
1.2 bar ±10%	DE M 12 x A 20 P01
2.0 bar ±10%	DE M 20 x A 20 P01
5.0 bar ±10%	DE M 50 x A 20 P01
7.0 bar ±10%	DE M 70 x A 20 P01
9.5 bar ±10%	DE M 95 x A 20 P01

A/F 28  
Max tightening torque: **65 N·m**

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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  
HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529

**Electrical data**

- Electrical connection: AMP Time junior
- Resistive load: 0.2 A / 115 Vdc
- Switching type: Normally open contacts (NC on request)

**DEM\*A30**  
**Electrical Differential Pressure Indicator**  
Deutsch DT-04-2-P

Settings	Ordering code
1.2 bar ±10%	DE M 12 x A 30 P01
2.0 bar ±10%	DE M 20 x A 30 P01
5.0 bar ±10%	DE M 50 x A 30 P01
7.0 bar ±10%	DE M 70 x A 30 P01
9.5 bar ±10%	DE M 95 x A 30 P01

A/F 28  
Max tightening torque: **65 N·m**

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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  
HFB and 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)

**DEM\*A35**  
**Electrical Differential Pressure Indicator**  
Deutsch DT-04-3-P

Settings	Ordering code
1.2 bar ±10%	DE M 12 x A 35 P01
2.0 bar ±10%	DE M 20 x A 35 P01
5.0 bar ±10%	DE M 50 x A 35 P01
7.0 bar ±10%	DE M 70 x A 35 P01
9.5 bar ±10%	DE M 95 x A 35 P01

A/F 28  
Max tightening torque: **65 N·m**

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- 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  
HFB and 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

# DIFFERENTIAL PRESSURE INDICATORS

## Dimensions

DES*10	
<b>Electrical Differential Pressure Indicator</b> AMP Superseal series 1.5	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE S 12 H A 10 P01
2.5 bar $\pm 10\%$	DE S 25 H A 10 P01
4.0 bar $\pm 10\%$	DE S 40 H A 10 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Internal parts: Brass - Polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

**Electrical data**

- Electrical connection: AMP Superseal series 1.5
- Resistive load: 0.2 A / 24 Vdc
- Switching type: Normally open contacts (NC on request)

DES*30	
<b>Electrical Differential Pressure Indicator</b> Deutsch DT-04-2-P	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE S 12 H A 30 P01
2.5 bar $\pm 10\%$	DE S 25 H A 30 P01
4.0 bar $\pm 10\%$	DE S 40 H A 30 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Internal parts: Brass - Polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

**Electrical data**

- Electrical connection: Deutsch DT-04-2-P
- Resistive load: 0.2 A / 24 Vdc
- Switching type: Normally open contacts (NC on request)

DES*50	
<b>Electrical Differential Pressure Indicator</b> Connection: EN 175301-803	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE S 12 H A 50 P01
2.4 bar $\pm 10\%$	DE S 25 H A 50 P01
4.0 bar $\pm 10\%$	DE S 40 H A 50 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Aluminium
- Internal parts: Aluminium - Polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 35 bar
- Proof pressure: 53 bar
- Burst pressure: 105 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529  
IP69K according to EN 20653

**Electrical data**

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

DES*80	
<b>Electrical Differential Pressure Indicator</b> Stud #10-32 UNF	
Settings	Ordering code
1.2 bar ±10%	DE S 12 HA 80 P01
2.5 bar ±10%	DE S 25 HA 80 P01
4.0 bar ±10%	DE S 40 HA 80 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Internal parts: Brass - Polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

**Electrical data**

- Electrical connection: Stud #10-32 UNF
- Resistive load: 0.2 A / 24 Vdc
- Switching type: Normally open contacts (NC on request)

DEU*50 UL	
<b>Electrical Differential Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
2.0 bar ±10%	DE U 20 V A 50 P01 UL
5.0 bar ±10%	DE U 50 V A 50 P01 UL
7.0 bar ±10%	DE U 70 V A 50 P01 UL

**Hydraulic symbol**

**Electrical symbol**

- Certification: UL  
- Certification included as standard

**Materials**

- Body: Brass
- Base: Black Polyamide
- Contacts: Silver
- Seal: FPM

**Technical data**

- Max working pressure: 210 bar
- Proof pressure: 220 bar
- Burst pressure: 880 bar
- Working temperature: From -25 °C to +85 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: EN 175301-803
- Resistive load: 3 A / 30 Vdc  
3 A / 125 Vac  
3 (3) A / 250 Vac

DEX*50	
<b>Electrical Differential Pressure Indicator</b> Connection: EN 175301-803	
Settings	Ordering code
1.2 bar ±10%	DE X 12 x A 50 P01
2.0 bar ±10%	DE X 20 x A 50 P01
5.0 bar ±10%	DE X 50 x A 50 P01
7.0 bar ±10%	DE X 70 x A 50 P01
9.5 bar ±10%	DE X 95 x A 50 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: AISI 316L
- Base: Black polyamide
- 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  
HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529  
IP69K according to ISO 20653

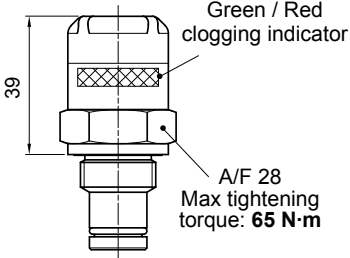
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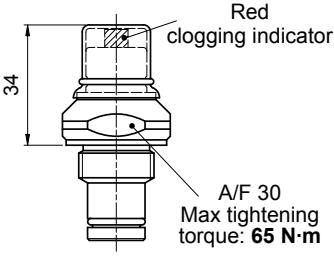
- Electrical connection: EN 175301-803
- Resistive load: 0.2 A / 115 Vdc

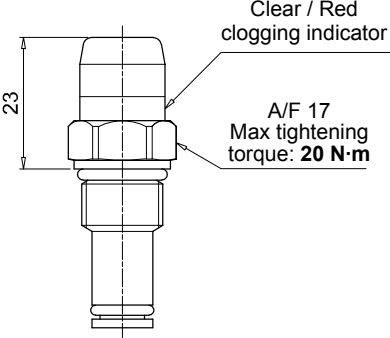






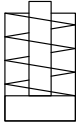
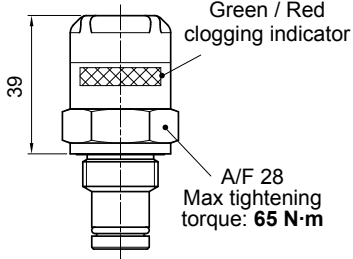
DVA		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b>			
Settings	Ordering code		
1.2 bar ±10%	DV A 12 x P01		<b>Technical data</b> - Reset: Automatic reset - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
2.0 bar ±10%	DV A 20 x P01		
5.0 bar ±10%	DV A 50 x P01		
7.0 bar ±10%	DV A 70 x P01		
9.5 bar ±10%	DV A 95 x P01		
			

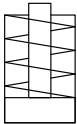
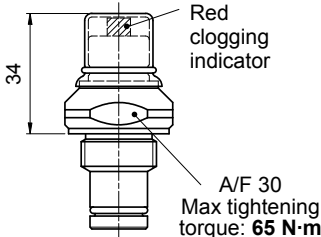
DVM		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b>			
Settings	Ordering code		
1.2 bar ±10%	DV M 12 x P01		<b>Technical data</b> - Reset: Manual reset - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
2.0 bar ±10%	DV M 20 x P01		
5.0 bar ±10%	DV M 50 x P01		
7.0 bar ±10%	DV M 70 x P01		
9.5 bar ±10%	DV M 95 x P01		
			

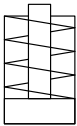
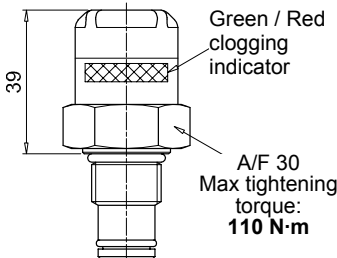
DVS		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b> Connection: EN 175301-803			
Settings	Ordering code		
1.2 bar ±10%	DV S 12 H P01		<b>Technical data</b> - Reset: Automatic reset - Max working pressure: 35 bar - Proof pressure: 53 bar - Burst pressure: 105 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP67 according to EN 60529
2.5 bar ±10%	DV S 25 H P01		
4.0 bar ±10%	DV S 40 H P01		
			

# DIFFERENTIAL PRESSURE INDICATORS

## Dimensions

DVX		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b>			
Settings	Ordering code		- Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ
1.2 bar $\pm 10\%$	DV X 12 x P01		
2.0 bar $\pm 10\%$	DV X 20 x P01		
5.0 bar $\pm 10\%$	DV X 50 x P01		
7.0 bar $\pm 10\%$	DV X 70 x P01		
9.5 bar $\pm 10\%$	DV X 95 x P01	<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529	
			

DVY		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b>			
Settings	Ordering code		- Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ
1.2 bar $\pm 10\%$	DV Y 12 x P01		
2.0 bar $\pm 10\%$	DV Y 20 x P01		
5.0 bar $\pm 10\%$	DV Y 50 x P01		
7.0 bar $\pm 10\%$	DV Y 70 x P01		
9.5 bar $\pm 10\%$	DV Y 95 x P01	<b>Technical data</b> - 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529	
			

DVZ		Hydraulic symbol	Materials
<b>Visual Differential Pressure Indicator</b>			
Settings	Ordering code		- Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ
1.2 bar $\pm 10\%$	DV Z 12 x P01		
2.5 bar $\pm 10\%$	DV Z 25 x P01		
5.0 bar $\pm 10\%$	DV Z 50 x P01		
7.0 bar $\pm 10\%$	DV Z 70 x P01		
9.5 bar $\pm 10\%$	DV Z 95 x P01	<b>Technical data</b> - Reset: Automatic reset - Max working pressure: 700 bar - Proof pressure: 1050 bar - Burst pressure: 2100 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529	
			

T2	
<b>Plug</b>	
Seal	Ordering code
HNBR	T2 H
FPM	T2 V

**Materials**

- Body: Phosphatized steel
- Seal: HNBR / FPM

T4	
<b>Plug</b>	
Seal	Ordering code
NBR	T4 A

**Materials**

- Body: Anodized aluminium
- Seal: NBR

X2	
<b>Stainless Steel plug 420 bar</b>	
Seal	Ordering code
HNBR	X2 H
FPM	X2 V
MFQ	X2 F

**Materials**

- Body: AISI 316L
- Seal: HNBR / FPM / MFQ

X3	
<b>Stainless Steel plug 700 bar (only for FZH)</b>	
Seal	Ordering code
HNBR	X3 H
FPM	X3 V
MFQ	X3 F

**Materials**

- Body: AISI 316L
- Seal: HNBR / FPM / MFQ





# WORLDWIDE NETWORK

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