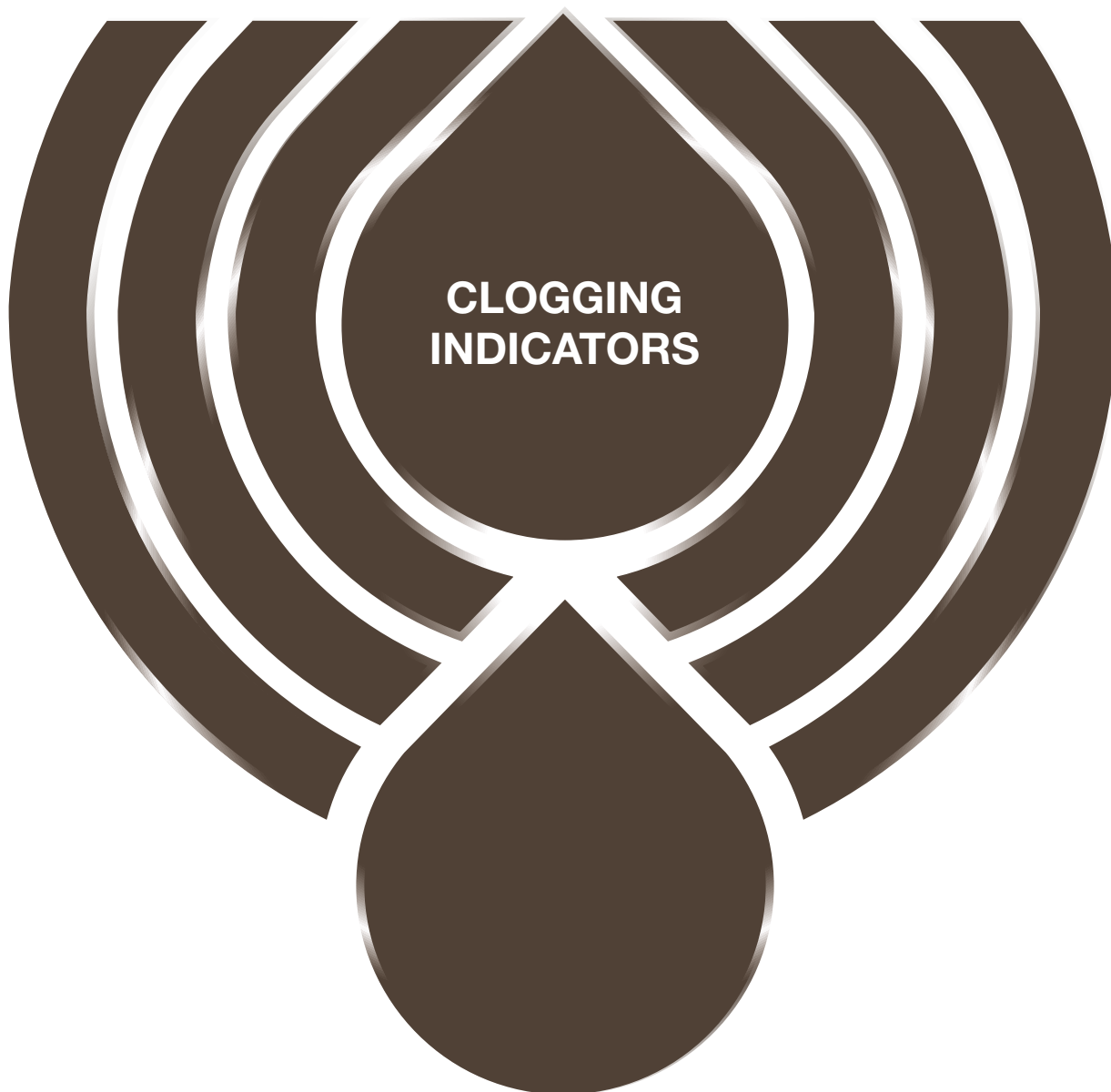




Clogging indicators are devices that check the life time of the filter elements. They measure the pressure drop through the filter element directly connected to the filter housing.

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:

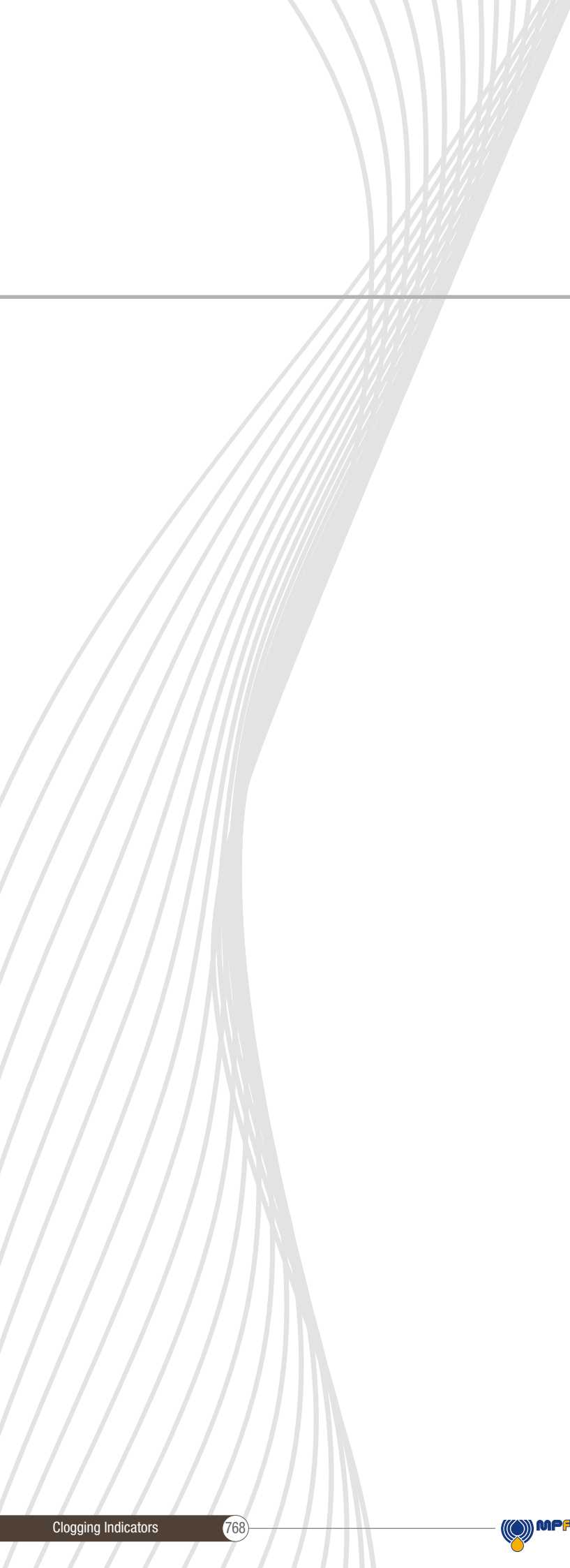
- Vacuum switches and gauges
- Pressure switches and gauges
- Differential pressure indicators

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.

Clogging Indicators





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 SFCM250	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	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 2.5 bar MPHC	BVP20HP01 BVQ20HP01	BET20HF10P01 BET20HF30P01	BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 4.5 bar MPLX		DEA20xA50P01 DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01	DLA20xA51P01 DLA20xA52P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01
	Return line FRIC 025 - 040 - 100 - 250 - 630 - 850	DVA20xP01 DVM20xP01	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	With bypass 2.5 bar	MRSX 116 - 165 - 166 Suction line	VVB20P01 VVS20P01	VEB21AA50P01 VLB21AA51P01 VLB21AA52P01 VLB21AA53P01 VLB21AA71P01
		MRSX 116 - 165 - 166 Return line	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01 BET25HF10P01 BET25HF30P01 BET25HF50P01 BLA20HA51P01 BLA20HA52P01 BLA20HA53P01 BLA20HA71P01
	With bypass 2.5 bar	LMP 124 MULTIPORT	BVA25P01 BVR25P01 BVP20HP01 BVQ20HP01 DVA20xP01 DVM20xP01	BEA20HA50P01 BEA20HA50P01UL BEM20HA41P01 BET25HF10P01 BET25HF30P01 BET25HF50P01 DEA20xA50P01 DEM20xx10P01 DEM20xx20P01 DEM20xx30P01 DEM20xx35P01 DEU20VA50P01UL DLA20xA51P01 DLA20xA52P01 DLA20xA53P01 DLA20xA71P01 DLE20xA50P01 DLE20xF50P01 DTA20xF70P01 DTI20xA70P01
SPIN-ON FILTERS	Suction line	MPS 050 - 070 - 100 - 150 MPS 200 - 250 - 300 - 350	VVB20P01 VVS20P01	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
	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
HIGH CAPACITY INDUSTRIAL FILTERS	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 050 - 065 - 135 - 320 - 500 FHB 050 - 135 - 320 FHF 325 FHD 051 - 326 - 333	DVA50xP01 DVM50xP01	DEA50xA50P01 DEA50xA51P01 DEA50xA52P01 DEA50xA71P01 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
STAINLESS STEEL HIGH PRESSURE FILTERS	With bypass 6 bar	FZH 012 - 040	DVZ50xP01	DEZ50xA50P01 DLZ50xA51P01 DLZ50xA52P01
	Without bypass	FZH 012 - 040	DVZ70xP01 DVZ95xP01	DEZ70xA50P01 DEZ95xA50P01 DLZ70xA51P01 DLZ70xA52P01 DLZ95xA51P01 DLZ95xA52P01
	With bypass 6 bar	FZP 039 - 136 FZB 039 FZM 039 FZD 051	DVX50xP01 DYY50xP01	DEX50xA50P01 DLX50xA51P01 DLX50xA52P01
	Without bypass	FZP 039 - 136 FZB 039 FZM 039 FZD 010 - 021 - 051	DVX70xP01 DVX95xP01 DYY70xP01 DYY95xP01	DEX70xA50P01 DEX95xA50P01 DLX70xA51P01 DLX70xA52P01 DLX95xA51P01 DLX95xA52P01
FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE	With bypass 6 bar	FMMX 050 - 150	DVA50xP01 DVM50xP01	DEH50xA48P01 DEH50xA49P01 DEH50xA70P01
	Without bypass	FMMX 050 - 150	DVA70xP01 DVA95xP01 DVM70xP01 DVM95xP01	DEH70xA48P01 DEH70xA49P01 DEH70xA70P01
	With bypass 6 bar	FZP 039 - 136	DVX50xP01 DYY50xP01	DEH50xA48P01 DEH50xA49P01 DEH50xA70P01
	Without bypass	FZP 039 - 136	DVX70xP01 DVX95xP01 DYY70xP01 DYY95xP01	DEH70xA48P01 DEH70xA49P01 DEH70xA70P01
	With bypass 6 bar	FZH 012 - 040	DVZ50xP01	
	Without bypass	FZH 012 - 040	DVZ70xP01 DVZ95xP01	
	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.

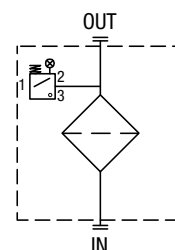
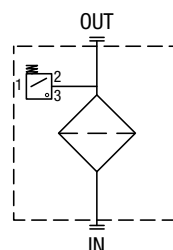
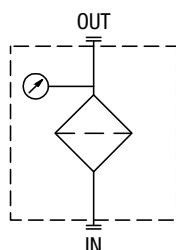
Standard items are produced with R 1/4" EN 10226 connection.

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.

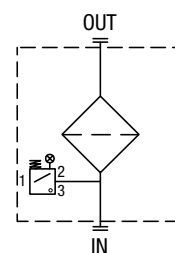
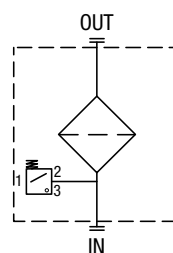
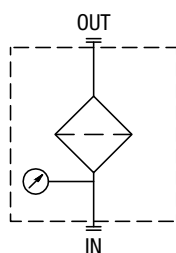
They measure the pressure upstream of the filter element.

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.

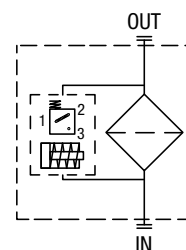
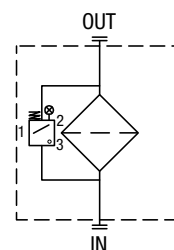
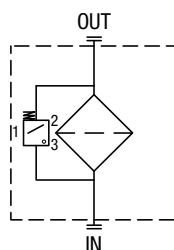
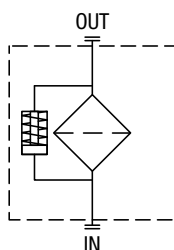
They measure the pressure upstream and downstream of the filter element (differential pressure).

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
VE Electrical vacuum indicator		Configuration example 2:										VL	B	21	A	A	71	P01	
VL Electrical/Visual vacuum indicator		Configuration example 3:										VV	R	20				P01	
VV Vacuum gauge																			
Type VE - VL		Type VV		SFC	SFE														
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	VVA	VVB	VVR	VVS												
20 0.20 bar		-	-	•	•	•	•												
21 0.21 bar		•	•	-	-	-	-												
Seals		VEA - VLA		VEB - VLB		VV													
A NBR		•		•		-													
V FPM		•		-		-													
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 Vac		-	•	-															
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc		-	•	-															
		Option																	
		P01 MP Filtri standard																	
		Pxx Customized																	
		Certifications																	
		VEA21A	VEA21V	VEB	VL	VV													
		Without	•	•	•	•													
EX ATEX certification		•	•	•	-	-													
UL UL certification		•	-	-	-	-													

Designation & Ordering code

APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

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

BAROMETRIC (PRESSURE) INDICATORS

Series	Configuration example 1:	BE	A	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
T With thermal switch	•	-	P Visual indicator with automatic reset
			Q Visual indicator with manual reset

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

Seals	BE	BLA	BVA-BVR-BVE-BVH	BVP-BVQ-BVN-BVO
H HNBR	•	•	-	•

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

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 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	DES	DLA	DLE	DTA	DTI	DVA	DVM	DVS
RFEX	-	-	-	-	-	-	-	-	-	-	-
MPFX	-	-	-	-	-	-	-	-	-	-	-
MPLX	•	•	•	-	•	•	•	•	•	•	-
MPTX	-	-	-	-	-	-	-	-	-	-	-
MFBX	-	-	-	-	-	-	-	-	-	-	-
MDHC	-	-	-	•	-	-	-	-	-	-	•
MPHC	-	-	-	-	-	-	-	-	-	-	-
MPIC	-	-	-	-	-	-	-	-	-	-	-
FRIC (all sizes, except 255)	•	•	•	-	•	•	•	•	•	•	-
FRIC 255	-	-	-	-	-	-	-	-	-	-	-
RFMC	-	-	-	-	-	-	-	-	-	-	-

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:										Configuration example 2:										Configuration example 3:										Configuration example 4:										Configuration example 5:										UL
DE Electrical differential pressure indicator	DE	M	20	H	F	50	P01											DE	U	50	V	A	50	P01																											
DL Electrical/Visual differential pressure indicator	DL	E	20	V	A	71	P01											DL	E	20	V	A	71	P01																											
DT Electrical differential pressure indicator	DT	A	20	H	F	70	P01											DT	A	20	H	F	70	P01																											
DV Visual differential pressure indicator	DV	M	20	V			P01											DV	M	20	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	•	-	-	S	With automatic reset																																														
U Standard type 210 bar, UL certified	•	-	-																																																
E For high power supply	-	•	-																																																
S Compact version	•	-	-																																																
Pressure setting	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS																																										
12 1.2 bar	-	-	-	•	-	-	-	-	•																																										
20 2.0 bar	•	•	•	-	•	•	•	•	-																																										
25 2.5 bar	-	-	-	•	-	-	-	-	•																																										
50 5.0 bar	•	•	•	-	•	•	•	•	-																																										
Seals	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS																																										
H HNBR	•	•	-	•	•	•	•	•	•																																										
V FPM	•	•	•	-	•	•	•	•	-																																										
Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DTA	DTI																																											
A Without thermostat	•	•	•	•	•	•	•	-	•																																										
F With thermostat	-	•	-	-	-	-	•	•	-																																										
Electrical connections	DEA	DEM	DEU	DES	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	-	-	-	-	•	-	-																																												
80 Connection Stud #10-32 UNF	-	-	-	•	-	-	-																																												
Option																																																			
P01 MP Filtri standard																																																			
Pxx Customized																																																			

PLUGS

Series	Configuration example	
T2 Plug	T2	H
T4 Plug		
Seals	T2	T4
A NBR	-	•
H HNBR	•	-
V FPM	•	-

Certifications	DEU	OTHERS
Without	-	•
UL 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
VE Electrical vacuum indicator		Configuration example 2:		VL	B	21	A	A	71	P01	
VL Electrical/Visual vacuum indicator		Configuration example 3:		VV	S	20				P01	
VV Vacuum gauge											
Type VE - VL		Type VV									
B Connection EN 10226 - R1/8"		B Axial connection EN 10226 - R1/8"									
		S Radial connection EN 10226 - R1/8"									
Vacuum setting				VE	VL	VVB	VVS				
20 0.20 bar				-	-	•	•				
21 0.21 bar				•	•	-	-				
Seals					VEB - VLB		VV				
A NBR					•		-				
V FPM					-		-				
Thermostat				VE	VL	VV					
A Without				•	•	-					
Electrical connections				VE	VL						
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											

APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
MRSX	•	•	•	•	•	•	•	•
LMP124	•	•	•	•	•	•	•	•

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
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 2.0 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	BET	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	•	-	-	-

Designation & Ordering code

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	DTI	DVA	DVM
MRSX	-	-	-	-	-	-	-	-	-
LMP124	•	•	•	•	•	•	•	•	•

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:											
DE Electrical differential pressure indicator	Configuration example 2:											
DL Electrical/Visual differential pressure indicator	Configuration example 3:											
DT Electronic differential pressure indicator	Configuration example 4:											
DV Visual differential pressure indicator	Configuration example 5:											
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				
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		

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
VE Electrical vacuum indicator	Configuration example 2:										VL	B	21	A	A	71	P01	
VL Electrical/Visual vacuum indicator	Configuration example 3:										VV	S	20				P01	
VV Vacuum gauge																		
Type VE - VL										Type VV								
B Connection EN 10226 - R1/8"										B Axial connection EN 10226 - R1/8"								
										S Radial connection EN 10226 - R1/8"								
Vacuum setting										VE	VL	VVB	VVS					
20 0.20 bar										-	-	•	•					
21 0.21 bar										•	•	-	-					
Seals										VEB - VLB		VV						
A NBR												•	-					
V FPM												-	-					
Thermostat										VE	VL	VV						
A Without											•	•	-					
Electrical connections										VE	VL							
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										VEB	VL	VV						
Without										•	•	•						
EX 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
HFEX	-	-	-	-	•	-	-	-	-	-	-	•
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:		UL											
DE Electrical differential pressure indicator	DE	M	20	H	F	50	P01				DE	U	50	V	A	50	P01													
DL Electrical/Visual differential pressure indicator	DL	E	50	V	A	71	P01				DL	E	50	V	A	71	P01													
DT Electronic differential pressure indicator	DT	A	20	H	F	70	P01				DT	A	20	H	F	70	P01													
DV Visual differential pressure indicator	DV	M	50	V			P01				DV	M	50	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	•	-	-	S	With automatic reset																									
U Standard type 210 bar, UL certified	•	-	-																											
E For high power supply	-	•	-																											
S Compact version	•	-	-																											
Pressure setting	DEA	DEM	DEU	DES	DLA	DLE	DTA	DTI	DVA	DVM	DVS																			
12 1.2 bar	•	•	-	•	•	•	•	•	•	•	•																			
20 2.0 bar	•	•	•	-	•	•	•	•	•	•	-																			
25 2.5 bar	-	-	-	-	-	-	-	-	-	-	•																			
40 4.0 bar	-	-	-	•	-	-	-	-	-	-	•																			
50 5.0 bar	•	•	•	-	•	•	•	•	•	•	-																			
Seals	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS																					
H HNBR	•	•	-	•	•	•	•	•	•																					
V FPM	•	•	•	-	•	•	•	•	-																					
Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DTA	DTI																						
A Without thermostat	•	•	•	•	•	•	-	•																						
F With thermostat	-	•	-	-	-	•	•	-																						
Electrical connections	DEA	DEM	DEU	DES	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	-	-	-	-	•	-	-																							
80 Connection Stud #10-32 UNF	-	-	-	•	-	-	-																							
PLUGS																														
Series	Example:	T2	H	Seals	T2	T4																								
T2 Plug				A NBR	-	•																								
T4 Plug				H HNBR	•	-																								
				V FPM	•	-																								
										Certifications	DEU	OTHERS																		
										Without	-	•																		
										UL UL certification	•	-																		

Option
P01 MP Filtri standard
Pxx Customized

Option
P01 MP Filtri standard
Pxx Customized

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DLA	DLE	DTA	DTI	DVA	DVM
MLPX	•	•	•	•	•	•	•	•
MLPC	•	•	•	•	•	•	•	•
MLDX	•	•	•	•	•	•	•	•
MLDC	•	•	•	•	•	•	•	•

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:									
DE Electrical differential pressure indicator	Configuration example 2:									
DL Electrical/Visual differential pressure indicator	Configuration example 3:									
DT Electronic differential pressure indicator	Configuration example 4:									
DV Visual differential pressure indicator	Configuration example 5:									
	DE	M	20	H	F	50	P01			
	DT	I	50	V	A	70	P01			
	DL	E	50	V	A	71	P01			
	DT	A	20	H	F	70	P01			
	DV	M	50	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	•	-	-							
E For high power supply	-	•	-							
Pressure setting	DEA	DEM	DLA	DLE	DTA	DTI	DVA	DVM		
12 1.2 bar	•	•	•	•	•	•	•	•		
20 2.0 bar	•	•	•	•	•	•	•	•		
25 2.5 bar	-	-	-	-	-	-	-	-		
40 4.0 bar	-	-	-	-	-	-	-	-		
50 5.0 bar	•	•	•	•	•	•	•	•		
Seals	DEA	DEM	DL	DT	DVA	DVM				
H HNBR	•	•	•	•	•	•				
V FPM	•	•	•	•	•	•				
Thermostat	DEA	DEM	DLA	DLE	DTA	DTI				
A Without thermostat	•	•	•	•	-	•				
F With thermostat	-	•	-	•	•	-				
Electrical connections	DEA	DEM	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										

PLUGS

Series	Example:	T2	H
T2 Plug			
Seals			
A NBR	-		
H HNBR	•		
V 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	UL
DE Electrical differential pressure indicator	Configuration example 2:	DE	U	50	V	A	50	P01	
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	
50 5.0 bar	•	•	•	•	•	•	•	•	
70 7.0 bar	•	•	•	•	•	•	•	•	
95 9.5 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			

DIFFERENTIAL PRESSURE INDICATORS

STAINLESS STEEL HIGH PRESSURE FILTERS

Designation & Ordering code

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEX	DEZ	DLX	DLZ	DVX	DVY	DVZ
FZP	•	-	•	-	•	•	-
FZH	-	•	-	•	-	-	•
FZX	-	-	-	-	-	-	-
FZM	•	-	•	-	•	•	-
FZB	•	-	•	-	•	•	-
FZD	•	-	•	-	•	•	-

DIFFERENTIAL PRESSURE INDICATORS

Series					Configuration example 1:						
DE Electrical differential pressure indicator					DE	Z	50	H	A	50	P01
DL Electrical / Visual differential pressure indicator					Configuration example 2:						
DV Visual differential pressure indicator					DL	X	70	V	A	52	P01
Type											
X	Stainless steel standard type 420 bar				•	•	•				
Y	Stainless steel optional type 420 bar				-	-	•				
Z	Stainless steel 700 bar (only for FZH)				•	•	•				
Pressure setting											
50	5.0 bar				•	•	•	•			
70	7.0 bar				•	•	•	•			
95	9.5 bar				•	•	•	•			
Seals											
H	HNBR				•	•	•	•			
V	FPM				-	-	•	•			
F	MFQ				•	-	-	-			
Thermostat											
A	Without thermostat				•	•	•	-			
Electrical connections											
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				-	-	•				
Option											
P01		MP Filtri standard									
Pxx		Customized									

PLUGS

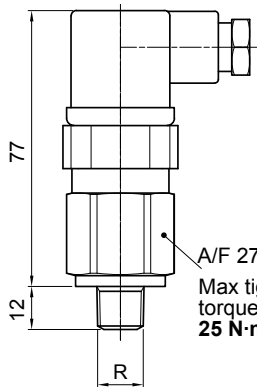
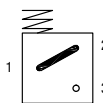
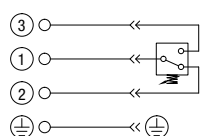
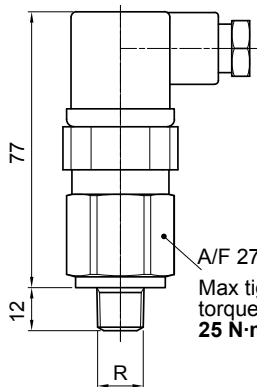
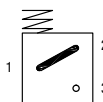
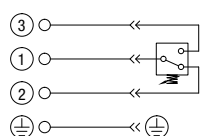
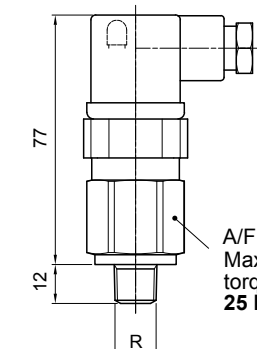
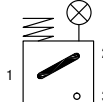
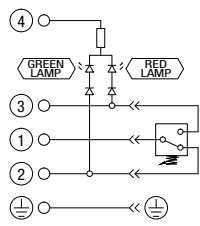
Series				Configuration example X2 H	
X2 Stainless Steel plug 420 bar					
X3 Stainless Steel plug 700 bar (only for FZH)					
Seals					
H HNBR					
V FPM					
F MFQ					

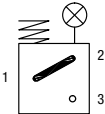
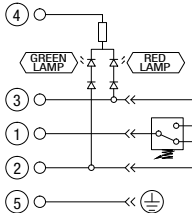
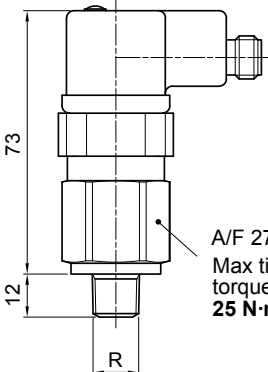
FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

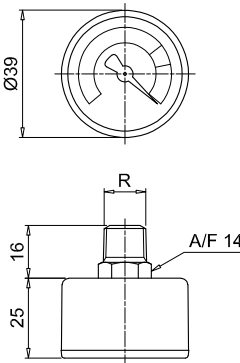
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Technical data

VE*50 (EX) Electrical Vacuum Indicator Connection: EN 175301-803 <table><tr><th>R</th><th>Ordering code</th></tr><tr><td>EN 10226 - R1/4"</td><td>VE A 21 x A 50 P01 VE A 21 x A 50 P01 EX</td></tr><tr><td>EN 10226 - R1/8"</td><td>VE B 21 A A 50 P01 VE B 21 A A 50 P01 EX</td></tr></table>  A/F 27 Max tightening torque: 25 N·m		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 $\pm 10\%$ - 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
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								
VEA50 UL Electrical Vacuum Indicator Connection: EN 175301-803 <table><tr><th>R</th><th>Ordering code</th></tr><tr><td>EN 10226 - R1/4"</td><td>VE A 21 A A 50 P01 UL</td></tr></table>  A/F 27 Max tightening torque: 25 N·m		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 $\pm 10\%$ - 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		
R	Ordering code								
EN 10226 - R1/4"	VE A 21 A A 50 P01 UL								
VL*51 - VL*52 - VL*53 Electrical/Visual Vacuum Indicator 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 <table><tr><th>R</th><th>Ordering code</th></tr><tr><td>EN 10226 - R1/4"</td><td>VL A 21 x A xx P01</td></tr><tr><td>EN 10226 - R1/8"</td><td>VL B 21 A A xx P01</td></tr></table>  A/F 27 Max tightening torque: 25 N·m		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 $\pm 10\%$ - 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
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								

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

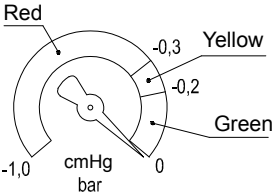
VVA - VVB	
Axial Vacuum Gauge	
R	Ordering code
EN 10226 - R1/4"	VVA 20 P01
EN 10226 - R1/8"	VVB 20 P01



Hydraulic symbol



Dial scale



Conversion to SI units

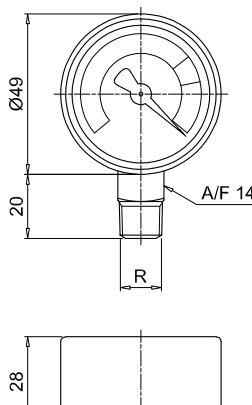
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-12	-0.16
-18	-0.24
-76	-1.01

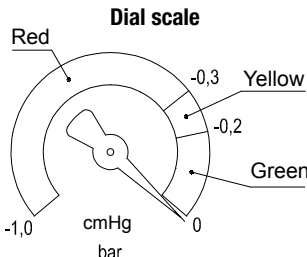
Materials

- 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

Technical data

- Max working pressure: Steady: -0.7 bar
Fluctuating: -0.6 bar
Short time: -1.0 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

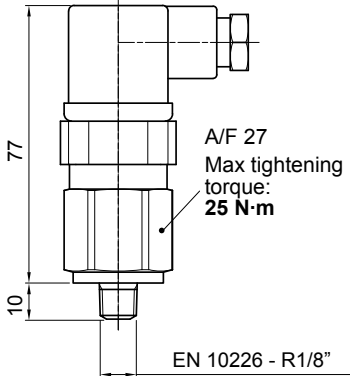
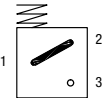
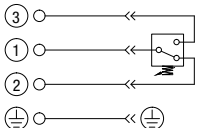
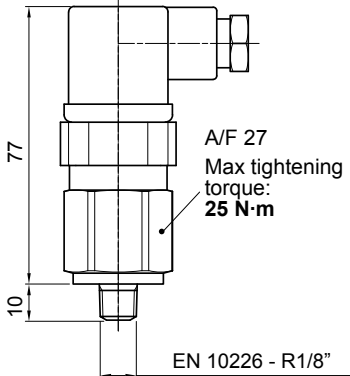
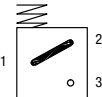
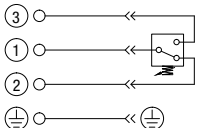
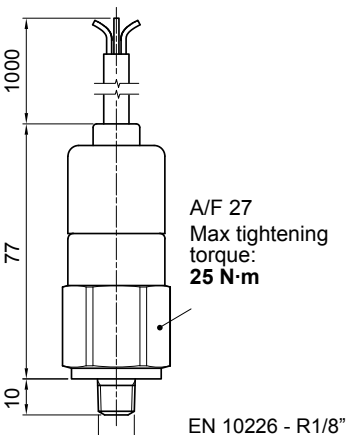
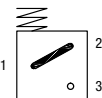
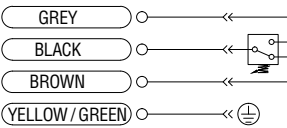
VVR - VVS		
Radial Vacuum Gauge		
R	A/F	Ordering code
EN 10226 - R1/4"	14	VVR 20 P01
EN 10226 - R1/8"	11	VVS 20 P01
		

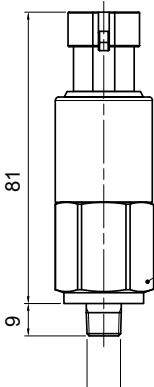
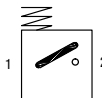
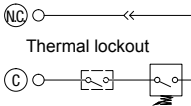
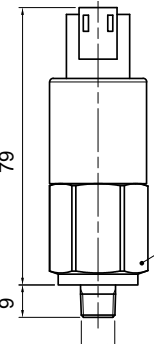
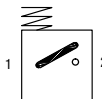
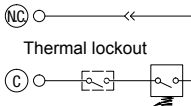
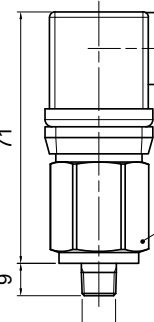
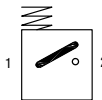
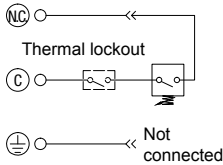
Hydraulic symbol	
	
Dial scale	
	
Conversion to SI units	
[cmHg]	[bar]
-12	-0.16
-18	-0.24
-76	-1.01

Materials	
- 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
Technical data	
- 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) Electrical Pressure Indicator Connection EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.5 bar ±10%</td><td>BE A 15 HA 50 P01 BE A 15 HA 50 P01 EX</td></tr><tr><td>2.0 bar ±10%</td><td>BE A 20 HA 50 P01 BE A 20 HA 50 P01 EX</td></tr></table>  A/F 27 Max tightening torque: 25 N·m EN 10226 - R1/8"		Settings	Ordering code	1.5 bar ±10%	BE A 15 HA 50 P01 BE A 15 HA 50 P01 EX	2.0 bar ±10%	BE A 20 HA 50 P01 BE A 20 HA 50 P01 EX	Hydraulic symbol  Electrical symbol   - Certification: ATEX, IECEx - Certification included in EX version	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 40 bar 60 bar From -25 °C to +80 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP65 according to EN 60529 Electrical data - Electrical connection: - Resistive load: EN 175301-803 5 A / 14 Vdc 4 A / 30 Vdc 5 A / 125 Vac 4 A / 250 Vac
Settings	Ordering code								
1.5 bar ±10%	BE A 15 HA 50 P01 BE A 15 HA 50 P01 EX								
2.0 bar ±10%	BE A 20 HA 50 P01 BE A 20 HA 50 P01 EX								
BEA*50 UL Electrical Pressure Indicator Connection EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.5 bar ±10%</td><td>BE A 15 HA 50 P01 UL</td></tr><tr><td>2.0 bar ±10%</td><td>BE A 20 HA 50 P01 UL</td></tr></table>  A/F 27 Max tightening torque: 25 N·m EN 10226 - R1/8"		Settings	Ordering code	1.5 bar ±10%	BE A 15 HA 50 P01 UL	2.0 bar ±10%	BE A 20 HA 50 P01 UL	Hydraulic symbol  Electrical symbol   - Certification: UL - Certification included as standard	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 12 bar 40 bar From -25 °C to +80 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP65 according to EN 60529 Electrical data - Electrical connection: - Resistive load: EN 175301-803 5 A / 14 Vdc 4 A / 30 Vdc 5 A / 125 Vac 4 A / 250 Vac
Settings	Ordering code								
1.5 bar ±10%	BE A 15 HA 50 P01 UL								
2.0 bar ±10%	BE A 20 HA 50 P01 UL								
BEM*41 Electrical Pressure Indicator Connection via four-core cable <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.5 bar ±10%</td><td>BE M 15 HA 41 P01</td></tr><tr><td>2.0 bar ±10%</td><td>BE M 20 HA 41 P01</td></tr></table>  A/F 27 Max tightening torque: 25 N·m EN 10226 - R1/8"		Settings	Ordering code	1.5 bar ±10%	BE M 15 HA 41 P01	2.0 bar ±10%	BE M 20 HA 41 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 40 bar 60 bar From -25 °C to +80 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP67 according to EN 60529 Electrical data - Electrical connection: - Resistive load: Four-core cable 5 A / 14 Vdc 4 A / 30 Vdc 5 A / 125 Vac 4 A / 250 Vac - CE certification On request this indicator can be provided with main connectors in use for wirings.
Settings	Ordering code								
1.5 bar ±10%	BE M 15 HA 41 P01								
2.0 bar ±10%	BE M 20 HA 41 P01								

BET*F10 Electrical Pressure Indicator Connection AMP Superseal series 1.5 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>2.0 bar ±10%</td><td>BET 20 H F 10 P01</td></tr><tr><td>2.5 bar ±10%</td><td>BET 25 H F 10 P01</td></tr></table>  A/F 24 Max tightening torque: 30 N·m EN 10226 - R1/8"	Settings	Ordering code	2.0 bar ±10%	BET 20 H F 10 P01	2.5 bar ±10%	BET 25 H F 10 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 10 bar 15 bar From -25 °C to +100 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP65 according to EN 60529 Electrical data - Electrical connection: - Resistive load: - Thermostat condition: - CE certification AMP Superseal series 1.5 0.5 A / 48 Vdc Open up to 30 °C
Settings	Ordering code							
2.0 bar ±10%	BET 20 H F 10 P01							
2.5 bar ±10%	BET 25 H F 10 P01							
BET*F30 Electrical Pressure Indicator Deutsch DT-04-2-P <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>2.0 bar ±10%</td><td>BET 20 H F 30 P01</td></tr><tr><td>2.5 bar ±10%</td><td>BET 25 H F 30 P01</td></tr></table>  A/F 24 Max tightening torque: 30 N·m EN 10226 - R1/8"	Settings	Ordering code	2.0 bar ±10%	BET 20 H F 30 P01	2.5 bar ±10%	BET 25 H F 30 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 10 bar 15 bar From -25 °C to +100 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP65 according to EN 60529 Electrical data - Electrical connection: - Resistive load: - Thermostat condition: - CE certification Deutsch DT-04-2-P 0.5 A / 48 Vdc Open up to 30 °C
Settings	Ordering code							
2.0 bar ±10%	BET 20 H F 30 P01							
2.5 bar ±10%	BET 25 H F 30 P01							
BET*F50 Electrical Pressure Indicator Connection EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>2.0 bar ±10%</td><td>BET 20 H F 50 P01</td></tr><tr><td>2.5 bar ±10%</td><td>BET 25 H F 50 P01</td></tr></table>  A/F 24 Max tightening torque: 30 N·m EN 10226 - R1/8"	Settings	Ordering code	2.0 bar ±10%	BET 20 H F 50 P01	2.5 bar ±10%	BET 25 H F 50 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Base: - Contacts: - Seal: Brass Black polyamide Silver HNBR Technical data - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: 10 bar 15 bar From -25 °C to +100 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP65 according to EN 60529 Electrical data - Electrical connection: - Resistive load: - Thermostat condition: - CE certification EN 175301-803 0.5 A / 48 Vdc Open up to 30 °C
Settings	Ordering code							
2.0 bar ±10%	BET 20 H F 50 P01							
2.5 bar ±10%	BET 25 H F 50 P01							

BAROMETRIC (PRESSURE) INDICATORS

Dimensions

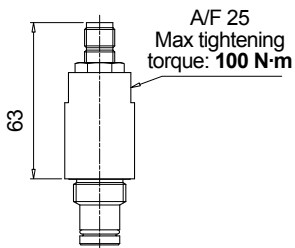
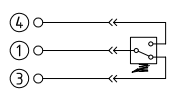
BL*51 - BL*52 - BL*53 Electrical/Visual Pressure Indicator Connection: EN 175301-803 51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc 53: Transparent base with lamps 230 Vac <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.5 bar ±10%</td><td>BL A 15 H A xx P01</td></tr><tr><td>2.0 bar ±10%</td><td>BL A 20 H A xx P01</td></tr></table>		Settings	Ordering code	1.5 bar ±10%	BL A 15 H A xx P01	2.0 bar ±10%	BL A 20 H A xx P01	Hydraulic symbol Electrical symbol	Materials - Body: Brass - Base: Transparent 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 - 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
Settings	Ordering code								
1.5 bar ±10%	BL A 15 H A xx P01								
2.0 bar ±10%	BL A 20 H A xx P01								
BL*71 Electrical/Visual Pressure Indicator Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.5 bar ±10%</td><td>BL A 15 H A 71 P01</td></tr><tr><td>2.0 bar ±10%</td><td>BL A 20 H A 71 P01</td></tr></table>		Settings	Ordering code	1.5 bar ±10%	BL A 15 H A 71 P01	2.0 bar ±10%	BL A 20 H A 71 P01	Hydraulic symbol Electrical symbol	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: IEC 61076-2-101 D (M12) - Lamps: 24 Vdc (black base) - Resistive load: 0.4 A / 24 Vdc
Settings	Ordering code								
1.5 bar ±10%	BL A 15 H A 71 P01								
2.0 bar ±10%	BL A 20 H A 71 P01								
BVA Axial Pressure Gauge <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.4 bar ±10%</td><td>BV A 14 P01</td></tr><tr><td>2.5 bar ±10%</td><td>BV A 25 P01</td></tr></table>		Settings	Ordering code	1.4 bar ±10%	BV A 14 P01	2.5 bar ±10%	BV A 25 P01	Hydraulic symbol Dial scale BV A 14 P01 BV A 25 P01	Materials - 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 Technical data - 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
Settings	Ordering code								
1.4 bar ±10%	BV A 14 P01								
2.5 bar ±10%	BV A 25 P01								

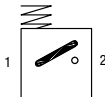
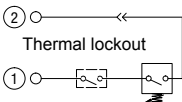
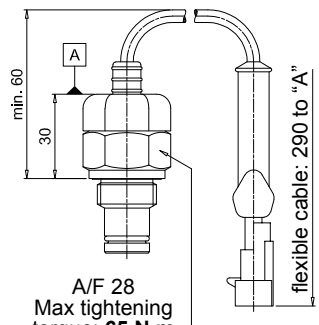
BVR Radial Pressure Gauge <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.4 bar ±10%</td><td>BV R 14 P01</td></tr><tr><td>2.5 bar ±10%</td><td>BV R 25 P01</td></tr></table>		Settings	Ordering code	1.4 bar ±10%	BV R 14 P01	2.5 bar ±10%	BV R 25 P01	Hydraulic symbol Dial scale BV R 14 P01 BV R 25 P01	Materials - Case: - Window: - Dial: - Pointer: - Pressure connection: - Pressure element: - Movement: Painted Steel Clear plastic Painted Steel Black plastic Brass Bourdon tube Cu-alloy soft soldered, C type Cu-alloy Technical data - Max working pressure: - Working temperature: - Compatibility with fluids: - Accuracy: - Degree of protection: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar Ambient from -40 °C to +60 °C Fluid max +60 °C Storage from -40 °C to +60 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 Class 2.5 according to EN 13190 IP31 according to EN 60529		
Settings	Ordering code										
1.4 bar ±10%	BV R 14 P01										
2.5 bar ±10%	BV R 25 P01										
BVP - BVQ Visual Pressure Indicator BVP - Automatic reset BVQ - Manual reset <table><tr><th>Setting</th><th>Ordering code</th></tr><tr><td rowspan="2">1.5 bar ±10%</td><td>BV P 15 H P01</td></tr><tr><td>BV Q 15 H P01</td></tr><tr><td rowspan="2">2.0 bar ±10%</td><td>BV P 20 H P01</td></tr><tr><td>BV Q 20 H P01</td></tr></table>		Setting	Ordering code	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	Hydraulic symbol Materials - Body: - Cover / internal parts: - Caps: - Seal: Brass Polyamide VMQ HNBR Technical data - Reset: - Max working pressure: - Proof pressure: - Working temperature: - Compatibility with fluids: - Degree of protection: BVP - Automatic reset BVQ - Manual reset 10 bar 15 bar From -25 °C to +80 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP45 according to EN 60529	Signals Absence of pressure (no indicator) Presence of pressure (green button rises gradually) Clogged filter element (red button risen)
Setting	Ordering code										
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										

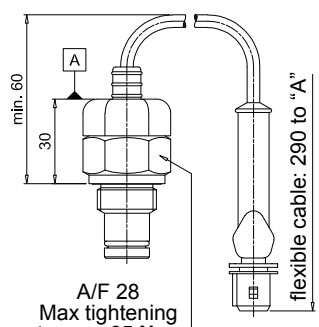
DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DEA*50 Electrical Differential Pressure Indicator Connection: EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE A 12 x A 50 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DE A 20 x A 50 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE A 50 x A 50 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE A 70 x A 50 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DE A 95 x A 50 P01</td></tr></table> A/F 30 Max tightening torque: 65 N·m	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	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
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													
DEH*48 Hazardous Area Electrical Differential Pressure Indicator Connection via three-core cable - cable fitting M20x1.5 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>2.0 bar ±10%</td><td>DE H 20 x A 48 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE H 50 x A 48 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE H 70 x A 48 P01</td></tr></table> A/F 25 Max tightening torque: 100 N·m flexible cable ≈ 5000 to A	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	Hydraulic symbol Electrical symbol - Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	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 T₂₀₀ 85 °C Da - Ex ia IIIC T₂₀₀ 135 °C Da IECEx Rating - Ex ia IIC T6 Ga - Ex ia IIC T4 Ga - Ex ia IIIC T₂₀₀ 85 °C Da - Ex ia IIIC T₂₀₀ 135 °C Da				
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													
DEH*49 Hazardous Area Electrical Differential Pressure Indicator Connection via four-core cable - cable fitting 1/2" NPT <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>2.0 bar ±10%</td><td>DE H 20 x A 49 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE H 50 x A 49 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE H 70 x A 49 P01</td></tr></table> A/F 25 Max tightening torque: 100 N·m flexible cable ≈ 5000 to A	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	Hydraulic symbol Electrical symbol - Certification / Approvals: ATEX, IECEx, EAC TR CU, UL/CSA - Certification included as standard	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				
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													

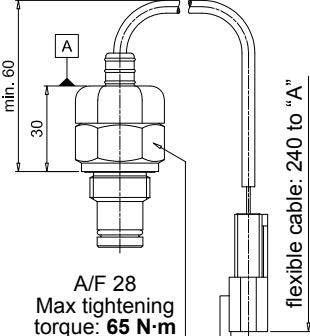
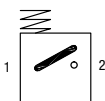
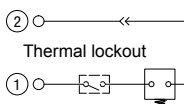
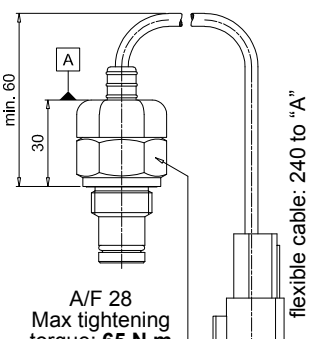
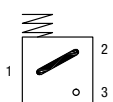
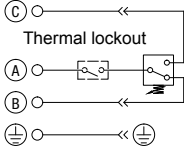
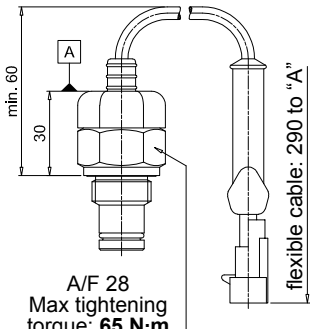
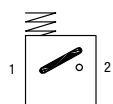
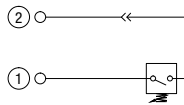
DEH*70		Hydraulic symbol	Materials
Hazardous Area Electrical Differential Pressure Indicator Connection IEC 61076-2-101 D (M12)			
Settings	Ordering code	Electrical symbol	Technical data
2.0 bar ±10%	DE H 20 x A 70 P01		
5.0 bar ±10%	DE H 50 x A 70 P01		
7.0 bar ±10%	DE H 70 x A 70 P01		
		   - Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	Materials - Body: AISI 316L with internal engineered resin switch - 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: 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) Electrical data - Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vdc - Electrical Ratings: Ui = 30 Vdc / li = 250 mA / Pi = 1.3 W Atex Rating II 1 GD Ex ia IIC T6 Ga Ex ia IIIC T₂₀₀ 135 °C Da IECEx Rating Ex ia IIC T6 Ga Ex ia IIIC T₂₀₀ 135 °C Da

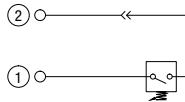
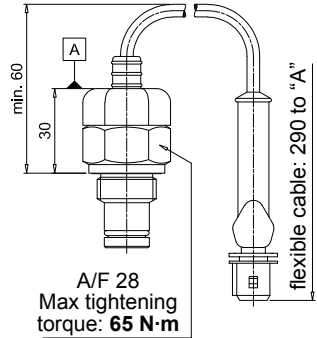
DEM*F10		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Connection: AMP Superseal series 1.5			
Settings	Ordering code		- Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR - FPM
1.2 bar ±10%	DE M 12 x F 10 P01		
2.0 bar ±10%	DE M 20 x F 10 P01		
5.0 bar ±10%	DE 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	Electrical symbol	
			
A/F 28 Max tightening torque: 65 N·m			
Electrical data		Technical data	
- Electrical connection:		420 bar	
- Resistive load:		630 bar	
- Switching type:		1260 bar	
- Thermal lockout:		From -25 °C to +110 °C	
		Mineral oils, Synthetic fluids	
		HFB and HFC according to ISO 2943	
		IP66 according to EN 60529	

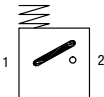
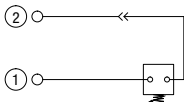
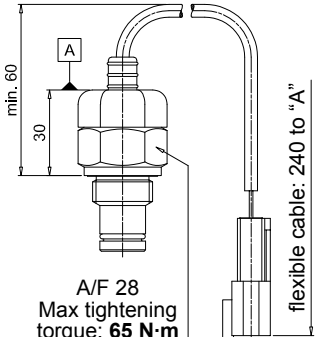
DEM*F20		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator AMP Time junior			
Settings	Ordering code	Electrical symbol	Technical data
1.2 bar ±10%	DE M 12 x F 20 P01		
2.0 bar ±10%	DE M 20 x F 20 P01		
5.0 bar ±10%	DE M 50 x F 20 P01		
7.0 bar ±10%	DE M 70 x F 20 P01		
9.5 bar ±10%	DE M 95 x F 20 P01	Electrical symbol	Technical data
			

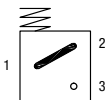
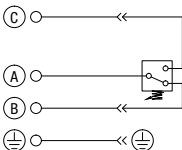
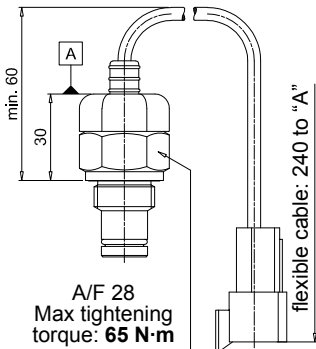
DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DEM*F30 Electrical Differential Pressure Indicator Deutsch DT-04-2-P <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE M 12 x F 30 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DE M 20 x F 30 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE M 50 x F 30 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE M 70 x F 30 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DE M 95 x F 30 P01</td></tr></table> 		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	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")
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														
DEM*F35 Electrical Differential Pressure Indicator Deutsch DT-04-3-P <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE M 12 x F 35 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DE M 20 x F 35 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE M 50 x F 35 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE M 70 x F 35 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DE M 95 x F 35 P01</td></tr></table> 		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	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")
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														
DEM*A10 Electrical Differential Pressure Indicator Connection: AMP Superseal series 1.5 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE M 12 x A 10 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DE M 20 x A 10 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DE M 50 x A 10 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE M 70 x A 10 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DE M 95 x A 10 P01</td></tr></table> 		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	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)
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														

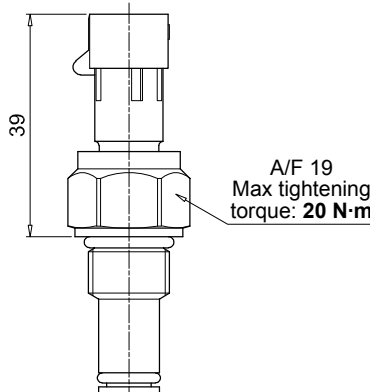
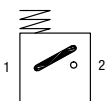
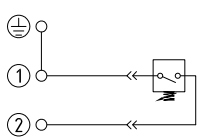
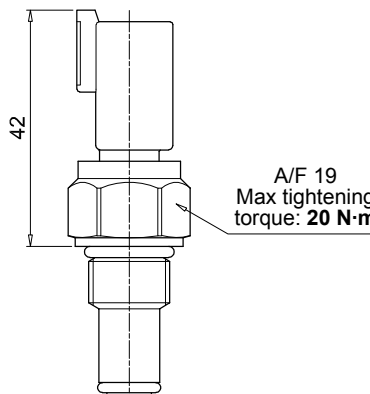
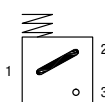
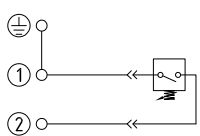
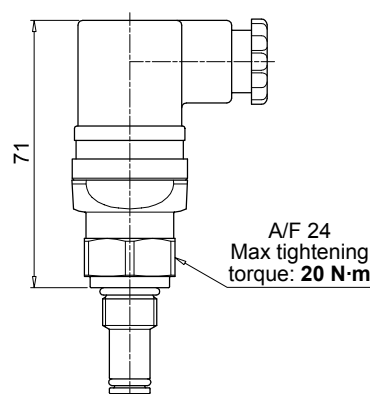
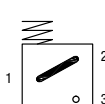
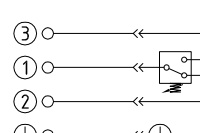
DEM*A20		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator AMP Time junior			- Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR - FPM
Settings	Ordering code	Electrical symbol	Technical data
1.2 bar $\pm 10\%$	DE M 12 x A 20 P01		- Max working pressure: 420 bar - 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
2.0 bar $\pm 10\%$	DE M 20 x A 20 P01		- Degree protection: IP66 according to EN 60529
5.0 bar $\pm 10\%$	DE M 50 x A 20 P01		Electrical data
7.0 bar $\pm 10\%$	DE M 70 x A 20 P01		- Electrical connection: AMP Time junior - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request)
9.5 bar $\pm 10\%$	DE M 95 x A 20 P01		
			

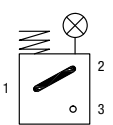
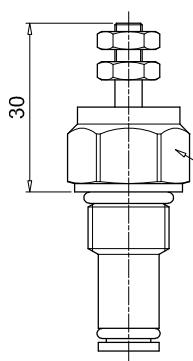
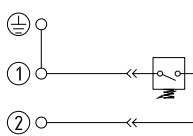
DEM*A30		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Deutsch DT-04-2-P			- Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR - FPM
Settings	Ordering code	Electrical symbol	Technical data
1.2 bar ±10%	DE M 12 x A 30 P01		- Max working pressure: 420 bar - Proof 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
2.0 bar ±10%	DE M 20 x A 30 P01		- Degree protection: IP66 according to EN 60529
5.0 bar ±10%	DE M 50 x A 30 P01		Electrical data
7.0 bar ±10%	DE M 70 x A 30 P01		- Electrical connection: Deutsch DT-04-2-P - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request)
9.5 bar ±10%	DE M 95 x A 30 P01		
			

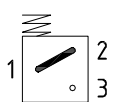
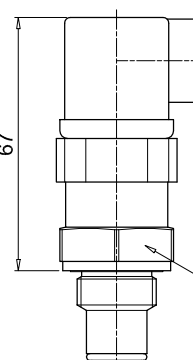
DEM*A35		Hydraulic symbol	Materials	
Electrical Differential Pressure Indicator Deutsch DT-04-3-P			Materials - Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR - FPM	
Settings	Ordering code		Technical data	
1.2 bar $\pm 10\%$	DE M 12 x A 35 P01		- Max working pressure: 420 bar	
2.0 bar $\pm 10\%$	DE M 20 x A 35 P01		- Proof pressure: 630 bar	
5.0 bar $\pm 10\%$	DE M 50 x A 35 P01		- Burst pressure: 1260 bar	
7.0 bar $\pm 10\%$	DE M 70 x A 35 P01		- Working temperature: From -25 °C to +110 °C	
9.5 bar $\pm 10\%$	DE M 95 x A 35 P01	- 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		

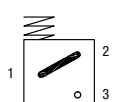
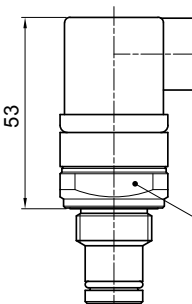
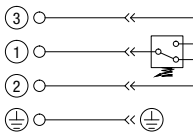
DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DES*10 Electrical Differential Pressure Indicator AMP Superseal series 1.5 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE S 12 H A 10 P01</td></tr><tr><td>2.5 bar ±10%</td><td>DE S 25 H A 10 P01</td></tr><tr><td>4.0 bar ±10%</td><td>DE S 40 H A 10 P01</td></tr></table>  A/F 19 Max tightening torque: 20 N·m	Settings	Ordering code	1.2 bar ±10%	DE S 12 H A 10 P01	2.5 bar ±10%	DE S 25 H A 10 P01	4.0 bar ±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 - Degree protection: HFB and HFC according to ISO 2943 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)
Settings	Ordering code									
1.2 bar ±10%	DE S 12 H A 10 P01									
2.5 bar ±10%	DE S 25 H A 10 P01									
4.0 bar ±10%	DE S 40 H A 10 P01									
DES*30 Electrical Differential Pressure Indicator Deutsch DT-04-2-P <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE S 12 H A 30 P01</td></tr><tr><td>2.5 bar ±10%</td><td>DE S 25 H A 30 P01</td></tr><tr><td>4.0 bar ±10%</td><td>DE S 40 H A 30 P01</td></tr></table>  A/F 19 Max tightening torque: 20 N·m	Settings	Ordering code	1.2 bar ±10%	DE S 12 H A 30 P01	2.5 bar ±10%	DE S 25 H A 30 P01	4.0 bar ±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 - Degree protection: HFB and HFC according to ISO 2943 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)
Settings	Ordering code									
1.2 bar ±10%	DE S 12 H A 30 P01									
2.5 bar ±10%	DE S 25 H A 30 P01									
4.0 bar ±10%	DE S 40 H A 30 P01									
DES*50 Electrical Differential Pressure Indicator Connection: EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DE S 12 H A 50 P01</td></tr><tr><td>2.4 bar ±10%</td><td>DE S 25 H A 50 P01</td></tr><tr><td>4.0 bar ±10%</td><td>DE S 40 H A 50 P01</td></tr></table>  A/F 24 Max tightening torque: 20 N·m	Settings	Ordering code	1.2 bar ±10%	DE S 12 H A 50 P01	2.4 bar ±10%	DE S 25 H A 50 P01	4.0 bar ±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 - Degree protection: HFB and HFC according to ISO 2943 IP66 according to EN 60529 IP69K according to EN 20653 Electrical data - Electrical connection: EN 175301-803 - Resistive load: 0.2 A / 115 Vdc
Settings	Ordering code									
1.2 bar ±10%	DE S 12 H A 50 P01									
2.4 bar ±10%	DE S 25 H A 50 P01									
4.0 bar ±10%	DE S 40 H A 50 P01									

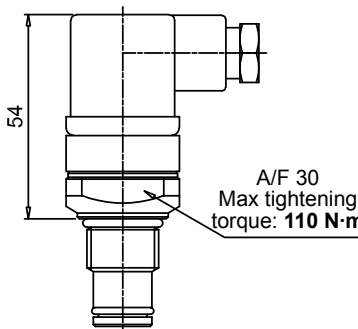
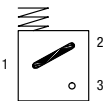
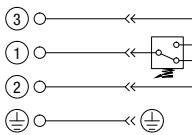
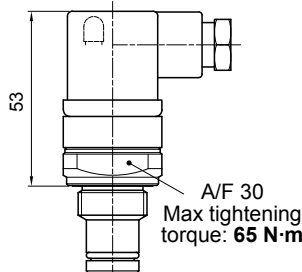
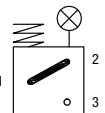
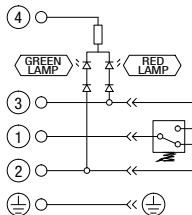
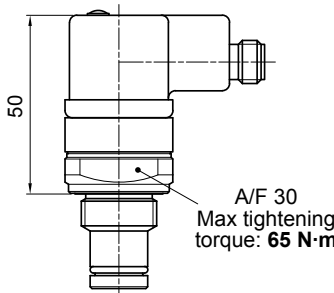
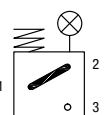
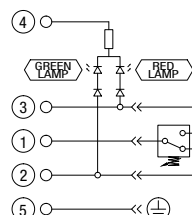
DES*80		Hydraulic symbol	Materials	
Electrical Differential Pressure Indicator Stud #10-32 UNF				
Settings	Ordering code		- Body: Brass - Internal parts: Brass - Polyamide - Contacts: Silver - Seal: HNBR	
1.2 bar ±10%	DE S 12 HA 80 P01			
2.5 bar ±10%	DE S 25 HA 80 P01			
4.0 bar ±10%	DE S 40 HA 80 P01			
 A/F 19 Max tightening torque: 20 N·m		Technical data		
		- Max working pressure:	16 bar	- Degree protection: IP67 according to EN 60529
		- 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	
		Electrical symbol	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		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Connection EN 175301-803			
Settings	Ordering code		Brass Black Polyamide Silver FPM
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		
 A/F 30 Max tightening torque: 50 N·m		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
		 - Certification: UL - Certification included as standard	

DEX*50		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Connection: EN 175301-803			
Settings	Ordering code		AISI 316L Black polyamide Silver HNBR - MFQ
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		
 A/F 30 Max tightening torque: 65 N·m		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 symbol	Electrical data
			- Electrical connection: EN 175301-803
			- Resistive load: 0.2 A / 115 Vdc

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DEZ*50 Electrical Differential Pressure Indicator Connection: EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>5.0 bar ±10%</td><td>DE Z 50 x A 50 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DE Z 70 x A 50 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DE Z 95 x A 50 P01</td></tr></table>  A/F 30 Max tightening torque: 110 N·m	Settings	Ordering code	5.0 bar ±10%	DE Z 50 x A 50 P01	7.0 bar ±10%	DE Z 70 x A 50 P01	9.5 bar ±10%	DE Z 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: 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 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				
Settings	Ordering code													
5.0 bar ±10%	DE Z 50 x A 50 P01													
7.0 bar ±10%	DE Z 70 x A 50 P01													
9.5 bar ±10%	DE Z 95 x A 50 P01													
DLA*51 - DLA*52 Electrical/Visual Differential Pressure Indicator Connection: EN 175301-803 51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DL A 12 x A xx P01</td></tr><tr><td>2.0 bar ±10%</td><td>DL A 20 x A xx P01</td></tr><tr><td>5.0 bar ±10%</td><td>DL A 50 x A xx P01</td></tr><tr><td>7.0 bar ±10%</td><td>DL A 70 x A xx P01</td></tr><tr><td>9.5 bar ±10%</td><td>DL A 95 x A xx P01</td></tr></table>  A/F 30 Max tightening torque: 65 N·m	Settings	Ordering code	1.2 bar ±10%	DL A 12 x A xx P01	2.0 bar ±10%	DL A 20 x A xx P01	5.0 bar ±10%	DL A 50 x A xx P01	7.0 bar ±10%	DL A 70 x A xx P01	9.5 bar ±10%	DL A 95 x A xx P01	Hydraulic symbol  Electrical symbol 	Materials - Body: Brass - Base: Transparent 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 - Type: 51 52 - Lamps: 24 Vdc 110 Vdc - Resistive load: 1 A / 24 Vdc 1 A / 110 Vdc
Settings	Ordering code													
1.2 bar ±10%	DL A 12 x A xx P01													
2.0 bar ±10%	DL A 20 x A xx P01													
5.0 bar ±10%	DL A 50 x A xx P01													
7.0 bar ±10%	DL A 70 x A xx P01													
9.5 bar ±10%	DL A 95 x A xx P01													
DLA*71 Electrical/Visual Differential pressure indicator Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DL A 12 x A 71 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DL A 20 x A 71 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DL A 50 x A 71 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DL A 70 x A 71 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DL A 95 x A 71 P01</td></tr></table>  A/F 30 Max tightening torque: 65 N·m	Settings	Ordering code	1.2 bar ±10%	DL A 12 x A 71 P01	2.0 bar ±10%	DL A 20 x A 71 P01	5.0 bar ±10%	DL A 50 x A 71 P01	7.0 bar ±10%	DL A 70 x A 71 P01	9.5 bar ±10%	DL A 95 x A 71 P01	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: IP65 according to EN 60529 IP69K according to ISO 20653 Electrical data - Electrical connection: IEC 61076-2-101 D (M12) - Lamps: 24 Vdc (black base) - Resistive load: 0.4 A / 24 Vdc
Settings	Ordering code													
1.2 bar ±10%	DL A 12 x A 71 P01													
2.0 bar ±10%	DL A 20 x A 71 P01													
5.0 bar ±10%	DL A 50 x A 71 P01													
7.0 bar ±10%	DL A 70 x A 71 P01													
9.5 bar ±10%	DL A 95 x A 71 P01													

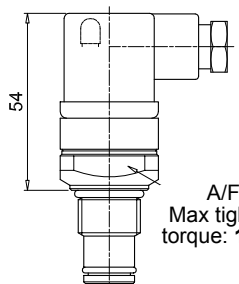
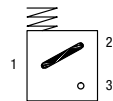
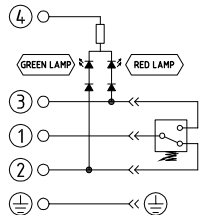
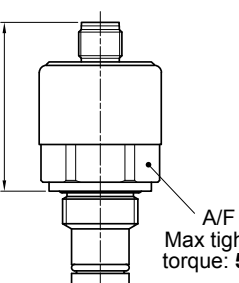
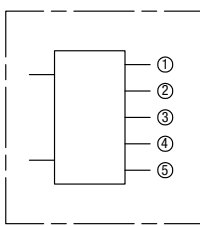
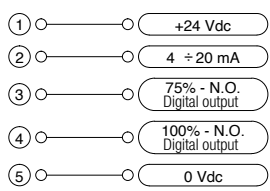
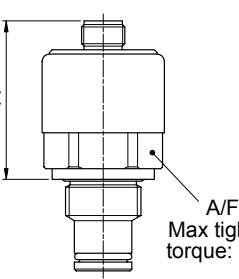
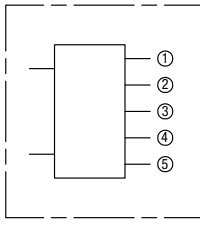
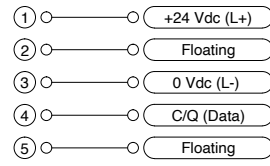
DLE*A50		Hydraulic symbol	Materials
Electrical/Visual Differential Pressure Indicator Without term. Connections: EN 175301-803			
Settings	Ordering code		
1.2 bar $\pm 10\%$	DL E 12 x A 50 P01		Technical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
2.0 bar $\pm 10\%$	DL E 20 x A 50 P01		
5.0 bar $\pm 10\%$	DL E 50 x A 50 P01		
7.0 bar $\pm 10\%$	DL E 70 x A 50 P01		
9.5 bar $\pm 10\%$	DL E 95 x A 50 P01		Electrical data - Electrical connections: EN 175301-803 - Resistive load: 5 A / 250 Vac - Available the connector with lamps

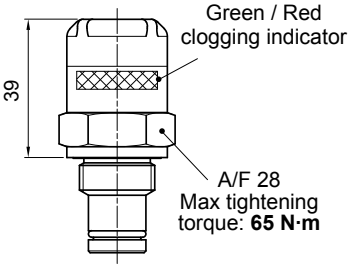
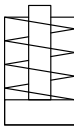
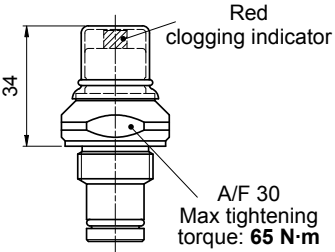
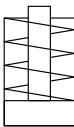
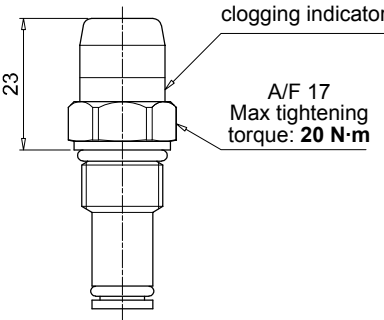
DLE*F50		Hydraulic symbol	Materials
Electrical/Visual Differential Pressure Indicator With term. Connections: EN 175301-803			
Settings	Ordering code		
1.2 bar $\pm 10\%$	DL E 12 x F 50 P01		Technical data - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
2.0 bar $\pm 10\%$	DL E 20 x F 50 P01		
5.0 bar $\pm 10\%$	DL E 50 x F 50 P01		
7.0 bar $\pm 10\%$	DL E 70 x F 50 P01		
9.5 bar $\pm 10\%$	DL E 95 x F 50 P01		Electrical data - Electrical connections: EN 175301-803 - Resistive load: 5 A / 250 Vac - Thermal lockout setting: +30 °C

DLX*51 - DLX*52		Hydraulic symbol	Materials
Electrical/Visual Differential Pressure Indicator Connection: EN 175301-803			
Settings	Ordering code		
1.2 bar $\pm 10\%$	DL X 12 x A 5x 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 HFB and HFC according to ISO 2943 - Degree protection: IP66 according to EN 60529 IP69K according to ISO 20653
2.0 bar $\pm 10\%$	DL X 20 x A 5x P01		
5.0 bar $\pm 10\%$	DL X 50 x A 5x P01		
7.0 bar $\pm 10\%$	DL X 70 x A 5x P01		
9.5 bar $\pm 10\%$	DL X 95 x A 5x P01		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

DIFFERENTIAL PRESSURE INDICATORS

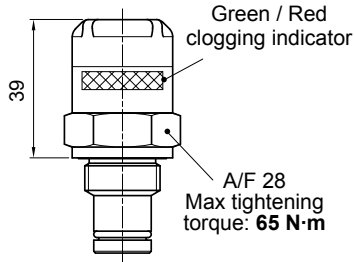
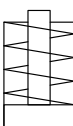
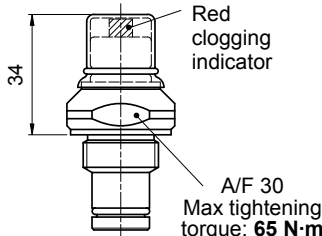
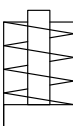
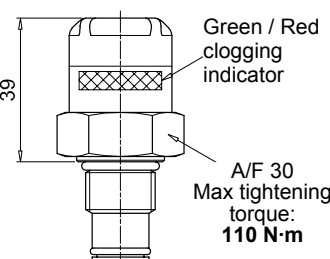
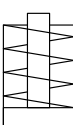
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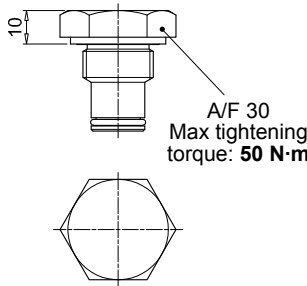
DLZ*51 - DLZ*52 Electrical/Visual Differential Pressure Indicator Connection: EN 175301-803 51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DL Z 12 x A 5x P01</td></tr><tr><td>2.5 bar ±10%</td><td>DL Z 25 x A 5x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DL Z 50 x A 5x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DL Z 70 x A 5x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DL Z 95 x A 5x P01</td></tr></table>  A/F 30 Max tightening torque: 110 N·m		Settings	Ordering code	1.2 bar ±10%	DL Z 12 x A 5x P01	2.5 bar ±10%	DL Z 25 x A 5x P01	5.0 bar ±10%	DL Z 50 x A 5x P01	7.0 bar ±10%	DL Z 70 x A 5x P01	9.5 bar ±10%	DL Z 95 x A 5x P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Base: - Contacts: - Seal: AISI 316L Transparent polyamide Silver HNBR - MFQ Technical data - Max working pressure: - Proof pressure: - Burst pressure: - Working temperature: - Compatibility with fluids: - Degree protection: 700 bar 1050 bar 2100 bar From -25 °C to +110 °C Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP66 according to EN 60529 IP69K according to ISO 20653 Electrical data - Electrical connection: - Type - Lamps - Resistive load: EN 175301-803 51 52 24 Vdc 110 Vdc 1 A / 24 Vdc 1 A / 110 Vdc
Settings	Ordering code														
1.2 bar ±10%	DL Z 12 x A 5x P01														
2.5 bar ±10%	DL Z 25 x A 5x P01														
5.0 bar ±10%	DL Z 50 x A 5x P01														
7.0 bar ±10%	DL Z 70 x A 5x P01														
9.5 bar ±10%	DL Z 95 x A 5x P01														
DTA*F70 Electronic Differential Pressure Indicator Connection: IEC 61076-2-101 D (M12) <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DT A 12 x F 70 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DT A 20 x F 70 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DT A 50 x F 70 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DT A 70 x F 70 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DT A 95 x F 70 P01</td></tr></table>  A/F 30 Max tightening torque: 50 N·m		Settings	Ordering code	1.2 bar ±10%	DT A 12 x F 70 P01	2.0 bar ±10%	DT A 20 x F 70 P01	5.0 bar ±10%	DT A 50 x F 70 P01	7.0 bar ±10%	DT A 70 x F 70 P01	9.5 bar ±10%	DT A 95 x F 70 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Internal parts: - Contacts: - Seal: Brass Brass - Polyamide Silver HNBR - FPM Technical data - Max working pressure: - Proof pressure: - Burst pressure: - Compatibility with fluids: - Degree protection: 420 bar 630 bar 1260 bar Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP67 according to EN 60529 Electrical data - Electrical connection: - Power supply: - Analogue output: - Thermal lockout: IEC 61076-2-101 D (M12) 24 Vdc From 4 to 20 mA 30 °C (all output signals stalled up to 30 °C)
Settings	Ordering code														
1.2 bar ±10%	DT A 12 x F 70 P01														
2.0 bar ±10%	DT A 20 x F 70 P01														
5.0 bar ±10%	DT A 50 x F 70 P01														
7.0 bar ±10%	DT A 70 x F 70 P01														
9.5 bar ±10%	DT A 95 x F 70 P01														
DTI*70 IO-Link Electronic Differential Pressure Indicator Connection: IEC 61076-2-101 D (M12) <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DT I 12 x A 70 P01</td></tr><tr><td>2.0 bar ±10%</td><td>DT I 20 x A 70 P01</td></tr><tr><td>5.0 bar ±10%</td><td>DT I 50 x A 70 P01</td></tr><tr><td>7.0 bar ±10%</td><td>DT I 70 x A 70 P01</td></tr><tr><td>9.5 bar ±10%</td><td>DT I 95 x A 70 P01</td></tr></table>  A/F 30 Max tightening torque: 50 N·m		Settings	Ordering code	1.2 bar ±10%	DT I 12 x A 70 P01	2.0 bar ±10%	DT I 20 x A 70 P01	5.0 bar ±10%	DT I 50 x A 70 P01	7.0 bar ±10%	DT I 70 x A 70 P01	9.5 bar ±10%	DT I 95 x A 70 P01	Hydraulic symbol  Electrical symbol 	Materials - Body: - Internal parts: - Contacts: - Seal: Brass Brass - Polyamide Silver HNBR - FPM Technical data - Max working pressure: - Proof pressure: - Burst pressure: - Compatibility with fluids: - Degree protection: 420 bar 630 bar 1260 bar Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 IP67 according to EN 60529 Electrical data - Electrical connection: - Power supply: IEC 61076-2-101 D (M12) 24 Vdc IO-Link data - Differential pressure [bar]: - Temperature [°C]: - State register: - Errors register: Float 32/4 byte Float 32/4 byte Unit 16/2 byte Unit 16/2 byte
Settings	Ordering code														
1.2 bar ±10%	DT I 12 x A 70 P01														
2.0 bar ±10%	DT I 20 x A 70 P01														
5.0 bar ±10%	DT I 50 x A 70 P01														
7.0 bar ±10%	DT I 70 x A 70 P01														
9.5 bar ±10%	DT I 95 x A 70 P01														

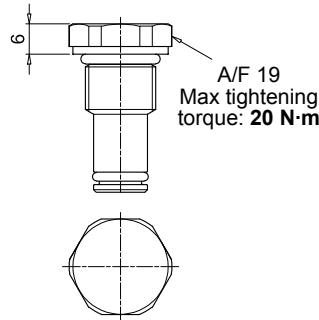
DVA Visual Differential Pressure Indicator <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DVA 12 x P01</td></tr><tr><td>2.0 bar ±10%</td><td>DVA 20 x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DVA 50 x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DVA 70 x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DVA 95 x P01</td></tr></table>  Green / Red clogging indicator A/F 28 Max tightening torque: 65 N·m 39	Settings	Ordering code	1.2 bar ±10%	DVA 12 x P01	2.0 bar ±10%	DVA 20 x P01	5.0 bar ±10%	DVA 50 x P01	7.0 bar ±10%	DVA 70 x P01	9.5 bar ±10%	DVA 95 x P01	Hydraulic symbol 	Materials - Body: Brass - Internal parts: Brass - Polyamide - 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
Settings	Ordering code													
1.2 bar ±10%	DVA 12 x P01													
2.0 bar ±10%	DVA 20 x P01													
5.0 bar ±10%	DVA 50 x P01													
7.0 bar ±10%	DVA 70 x P01													
9.5 bar ±10%	DVA 95 x P01													
DVM Visual Differential Pressure Indicator <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DVM 12 x P01</td></tr><tr><td>2.0 bar ±10%</td><td>DVM 20 x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DVM 50 x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DVM 70 x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DVM 95 x P01</td></tr></table>  Red clogging indicator A/F 30 Max tightening torque: 65 N·m 34	Settings	Ordering code	1.2 bar ±10%	DVM 12 x P01	2.0 bar ±10%	DVM 20 x P01	5.0 bar ±10%	DVM 50 x P01	7.0 bar ±10%	DVM 70 x P01	9.5 bar ±10%	DVM 95 x P01	Hydraulic symbol 	Materials - Body: Brass - Internal parts: Brass - Polyamide - 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
Settings	Ordering code													
1.2 bar ±10%	DVM 12 x P01													
2.0 bar ±10%	DVM 20 x P01													
5.0 bar ±10%	DVM 50 x P01													
7.0 bar ±10%	DVM 70 x P01													
9.5 bar ±10%	DVM 95 x P01													
DVS Visual Differential Pressure Indicator Connection: EN 175301-803 <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DVS 12 H P01</td></tr><tr><td>2.5 bar ±10%</td><td>DVS 25 H P01</td></tr><tr><td>4.0 bar ±10%</td><td>DVS 40 H P01</td></tr></table>  Clear / Red clogging indicator A/F 17 Max tightening torque: 20 N·m 23	Settings	Ordering code	1.2 bar ±10%	DVS 12 H P01	2.5 bar ±10%	DVS 25 H P01	4.0 bar ±10%	DVS 40 H P01	Hydraulic symbol 	Materials - Body: Brass - Internal parts: Brass - Polyamide - Seal: HNBR Technical data - 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				
Settings	Ordering code													
1.2 bar ±10%	DVS 12 H P01													
2.5 bar ±10%	DVS 25 H P01													
4.0 bar ±10%	DVS 40 H P01													

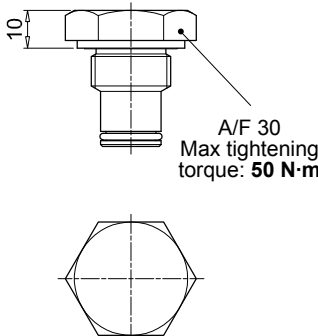
DIFFERENTIAL PRESSURE INDICATORS

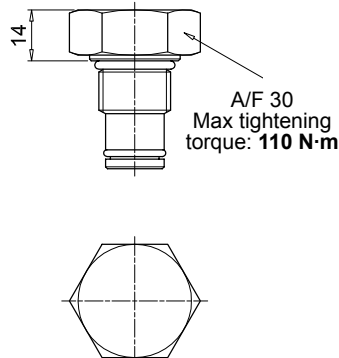
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DVX Visual Differential Pressure Indicator <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DV X 12 x P01</td></tr><tr><td>2.0 bar ±10%</td><td>DV X 20 x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DV X 50 x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DV X 70 x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DV X 95 x P01</td></tr></table>  Green / Red clogging indicator A/F 28 Max tightening torque: 65 N·m	Settings	Ordering code	1.2 bar ±10%	DV X 12 x P01	2.0 bar ±10%	DV X 20 x P01	5.0 bar ±10%	DV X 50 x P01	7.0 bar ±10%	DV X 70 x P01	9.5 bar ±10%	DV X 95 x P01	Hydraulic symbol 	Materials - Body: AISI 316L - Internal parts: AISI 316L - Polyamide - 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
Settings	Ordering code													
1.2 bar ±10%	DV X 12 x P01													
2.0 bar ±10%	DV X 20 x P01													
5.0 bar ±10%	DV X 50 x P01													
7.0 bar ±10%	DV X 70 x P01													
9.5 bar ±10%	DV X 95 x P01													
DVY Visual Differential Pressure Indicator <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DV Y 12 x P01</td></tr><tr><td>2.0 bar ±10%</td><td>DV Y 20 x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DV Y 50 x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DV Y 70 x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DV Y 95 x P01</td></tr></table>  Red clogging indicator A/F 30 Max tightening torque: 65 N·m	Settings	Ordering code	1.2 bar ±10%	DV Y 12 x P01	2.0 bar ±10%	DV Y 20 x P01	5.0 bar ±10%	DV Y 50 x P01	7.0 bar ±10%	DV Y 70 x P01	9.5 bar ±10%	DV Y 95 x P01	Hydraulic symbol 	Materials - Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ 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 HFB and HFC according to ISO 2943 - Degree protection: IP65 according to EN 60529
Settings	Ordering code													
1.2 bar ±10%	DV Y 12 x P01													
2.0 bar ±10%	DV Y 20 x P01													
5.0 bar ±10%	DV Y 50 x P01													
7.0 bar ±10%	DV Y 70 x P01													
9.5 bar ±10%	DV Y 95 x P01													
DVZ Visual Differential Pressure Indicator <table><tr><th>Settings</th><th>Ordering code</th></tr><tr><td>1.2 bar ±10%</td><td>DV Z 12 x P01</td></tr><tr><td>2.5 bar ±10%</td><td>DV Z 25 x P01</td></tr><tr><td>5.0 bar ±10%</td><td>DV Z 50 x P01</td></tr><tr><td>7.0 bar ±10%</td><td>DV Z 70 x P01</td></tr><tr><td>9.5 bar ±10%</td><td>DV Z 95 x P01</td></tr></table>  Green / Red clogging indicator A/F 30 Max tightening torque: 110 N·m	Settings	Ordering code	1.2 bar ±10%	DV Z 12 x P01	2.5 bar ±10%	DV Z 25 x P01	5.0 bar ±10%	DV Z 50 x P01	7.0 bar ±10%	DV Z 70 x P01	9.5 bar ±10%	DV Z 95 x P01	Hydraulic symbol 	Materials - Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ Technical data - 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
Settings	Ordering code													
1.2 bar ±10%	DV Z 12 x P01													
2.5 bar ±10%	DV Z 25 x P01													
5.0 bar ±10%	DV Z 50 x P01													
7.0 bar ±10%	DV Z 70 x P01													
9.5 bar ±10%	DV Z 95 x P01													

T2		Materials - Body: Phosphatized steel - Seal: HNBR / FPM
Plug		
Seal HNBR FPM	Ordering code T2 H T2 V	
		

T4		Materials - Body: Anodized aluminium - Seal: NBR
Plug		
Seal NBR	Ordering code T4 A	
		

X2		Materials - Body: AISI 316L - Seal: HNBR / FPM / MFQ
Stainless Steel plug 420 bar		
Seal HNBR FPM MFQ	Ordering code X2 H X2 V X2 F	
		

X3		Materials - Body: AISI 316L - Seal: HNBR / FPM / MFQ
Stainless Steel plug 700 bar (only for FZH)		
Seal HNBR FPM MFQ	Ordering code X3 H X3 V X3 F	
		

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