



MP Filtri Differential
clogging indicators



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

DIFFERENTIAL INDICATORS

**CLOGGING
INDICATORS**



D DIFFERENTIAL PRESSURE INDICATORS

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

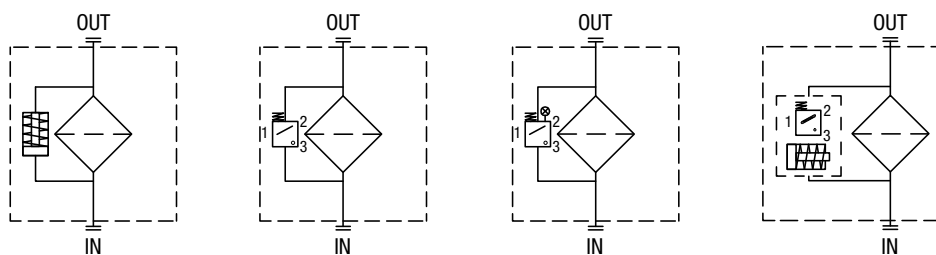
They measure the pressure upstream and downstream of the filter element (differential pressure).

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



Differential Indicators



DESIGNATION, ORDERING CODES & TECHNICAL DATA

INDEX

CLOGGING INDICATORS ORDERING CODES		Page	
RETURN FILTERS INDICATORS		3	
RETURN / SUCTION FILTERS INDICATORS		4	
SPIN-ON FILTERS INDICATORS		5	
LOW & MEDIUM PRESSURE FILTERS INDICATORS		6	
HIGH PRESSURE FILTERS INDICATORS		7	
STAINLESS STEEL HIGH PRESSURE FILTERS INDICATORS		8	
FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE INDICATORS		9	
TECHNICAL DATA DIFFERENTIAL INDICATORS			
DEA*50	10	DEX*50	15
DEH*48	10	DEZ*50	15
DEH*49	10	DLA*51 - DLA*52	16
DEH*70	11	DLA*71	16
DEM*F10	11	DLE*A50	16
DEM*F20	11	DLE*F50	17
DEM*F30	12	DLX*51 - DLX*52	17
DEM*F35	12	DLZ*51 - DLZ*52	17
DEM*A10	12	DTA*F70	18
DEM*A20	13	DVA	18
DEM*A30	13	DVM	18
DEM*A35	13	DVS	19
DES*10	14	DVX	19
DES*30	14	DVY	19
DES*80	14	DVZ	20
DEU*50 UL	15		

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DES	DLA	DLE	DTA	DVA	DVM	DVS
RFEX	-	-	-	-	-	-	-	-	-	-
MPFX	-	-	-	-	-	-	-	-	-	-
MPLX	•	•	•	-	•	•	•	•	•	-
MPTX	-	-	-	-	-	-	-	-	-	-
MFBX	-	-	-	-	-	-	-	-	-	-
MPF	-	-	-	-	-	-	-	-	-	-
MPT	-	-	-	-	-	-	-	-	-	-
MFB	-	-	-	-	-	-	-	-	-	-
MDH	-	-	-	•	-	-	-	-	-	•
MPH	-	-	-	-	-	-	-	-	-	-
MPI	-	-	-	-	-	-	-	-	-	-
FRI (all sizes, except 255)	•	•	•	-	•	•	•	•	•	-
FRI 255	-	-	-	-	-	-	-	-	-	-
RF2	-	-	-	-	-	-	-	-	-	-

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:								Configuration example 2:		Configuration example 3:		Configuration example 4:		Configuration example 5:	
DE Electrical differential pressure indicator	DE	M	20	H	F	50	P01	DE	U	50	V	A	50	P01	UL	
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
M With wired electrical connection	•	-	-	M With manual reset
U Standard type 210 bar, UL certified	•	-	-	S With automatic reset
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	DT
A Without thermostat	•	•	•	•	•	•	-
F With thermostat	-	•	-	-	-	•	•

Electrical connections	DEA	DEM	DEU	DES	DLA	DLE	DT	Option
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	-	-	-	-	•	-	-	P01 MP Filtri standard
80 Connection Stud #10-32 UNF	-	-	-	•	-	-	-	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 DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

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

DIFFERENTIAL PRESSURE INDICATORS

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

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

Pressure setting	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
20 2.0 bar	•	•	•	•	•	•	•	•

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

Thermostat	DEA	DEM	DEU	DLA	DLE	DT
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	DEU	OTHERS
P01 MP Filtri standard	-	•
Pxx Customized	•	-

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

PLUGS

Series	Configuration example	
T2 Plug	T2	H

Seals
H HNBR
V FPM

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	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
M With wired electrical connection	•	-	-	M With manual reset
U Standard type 210 bar, UL certified	•	-	-	
E For high power supply	-	•	-	

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

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

Thermostat	DEA	DEM	DEU	DLA	DLE	DT
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	DLA	DLE	DTA	DVA	DVM	DVS
LFEX	-	-	-	•	-	-	-	-	-	•
LPH 630	•	•	•	-	•	•	•	•	•	-
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	•	•	•	-	•	•	•	•	•	-

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1:	DE	M	20	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	50	V	A	71	P01	
DT Electronic differential pressure indicator	Configuration example 4:	DT	A	20	H	F	70	P01	
DV Visual differential pressure indicator	Configuration example 5:	DV	M	50	V			P01	

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

Pressure setting	DEA	DEM	DEU	DES	DLA	DLE	DTA	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	DT
A Without thermostat		•	•	•	•	•	-
F With thermostat	-	•	-	-	-	•	•

Electrical connections	DEA	DEM	DEU	DES	DLA	DLE	DT	Option
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	-	-	-	-	•	-	-	P01 MP Filtri standard
80 Connection Stud #10-32 UNF	-	-	-	•	-	-	-	Pxx Customized

PLUGS

Series	Configuration example	T2	H
T2 Plug			
T4 Plug			

Seals	T2	T4
A NBR	-	•
H HNBR	•	-
V FPM	•	-

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEA	DEM	DEU	DLA	DLE	DTA	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	
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
M With wired electrical connection	•	-	-	M With manual reset
U Standard type 210 bar, UL certified	•	-	-	
E For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
50 5.0 bar	•	•	•	•	•	•	•	•
70 7.0 bar	•	•	•	•	•	•	•	•
95 9.5 bar	•	•	-	•	•	•	•	•

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

Thermostat	DEA	DEM	DEU	DLA	DLE	DT
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	DEU	OTHERS
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

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	Z	50	H	A	50	P01
DE Electrical differential pressure indicator	Configuration example 2:	DL	X	70	V	A	52	P01
DL Electrical / Visual differential pressure indicator								
DV Visual differential pressure indicator								

Type	DE	DL	DV
X Stainless steel standard type 420 bar	•	•	•
Y Stainless steel optional type 420 bar	-	-	•
Z Stainless steel 700 bar (only for FZH)	•	•	•

Pressure setting	DEX	DEZ	DL	DV
50 5.0 bar	•	•	•	•
70 7.0 bar	•	•	•	•
95 9.5 bar	•	•	•	•

Seals	DEX	DEZ	DL	DV
H HNBR	•	•	•	•
V FPM	-	-	•	•
F MFQ	•	•	-	-

Thermostat	DEX	DEZ	DL	DV
A Without thermostat	•	•	•	-

Electrical connections	DEX	DEZ	DL
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

Designation & Ordering code

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEH	DEX	DEZ	DVA	DVM	DVX	DVY	DVZ
FMMX	.	.	•	.	.	•	•	•
FZP	.	•	•	•	•	.	.	•
FZH 012	•	•	.	•	•	•	•	.
FZH 040	•	•	•	•	•	•	•	.
FZX	•	•	•	•	•	•	•	•

DIFFERENTIAL PRESSURE INDICATORS

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

PLUGS

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

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

DEH*48	
Hazardous Area Electrical Differential Pressure Indicator Connection via three-core cable - fitting M20x1.5	
Settings	Ordering code
2.0 bar ±10%	DE H 20 x A 48 P01
5.0 bar ±10%	DE H 50 x A 48 P01
7.0 bar ±10%	DE H 70 x A 48 P01

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -60 °C to +125 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFB and HFC according to ISO 2943
- Protection class: Ex Ia IIC T4/T6: intrinsically safe
- Temperature class: T4 (135 °C) and T6 (85 °C)
- 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: $U_i = 30 \text{ Vdc} / I_i = 250 \text{ mA} / P_i = 1.3 \text{ W}$

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

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

Hydraulic symbol

Electrical symbol

Materials

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


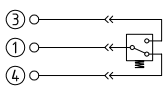
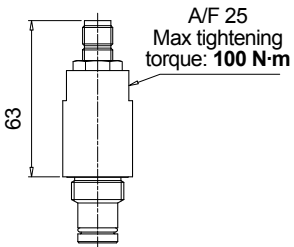

Technical data

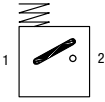
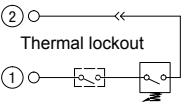
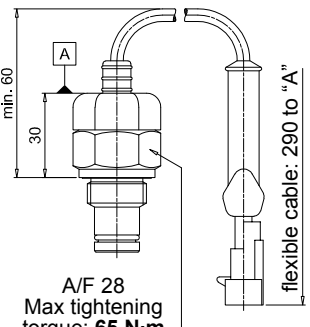
- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -60 °C to +120 °C : ATEX, IECEx, EAC TR CU, INMETRO
From -60 °C to +105 °C : UL/CSA
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFB and HFC according to ISO 2943
- Protection class: Ex d IIC T4/T6: flameproof
- Temperature class: T4 (135 °C) and T6 (85 °C)
- 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)

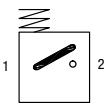
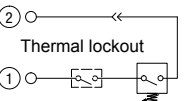
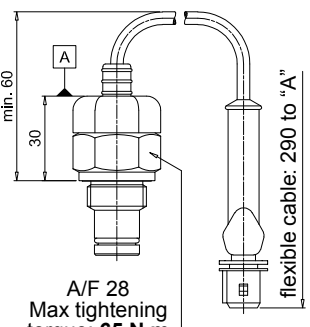
Electrical data

- Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vac
- Max voltage: 150 Vac/dc
- Power: 20 W

Certification / Approvals:
ATEX, IECEx, EAC TR CU, INMETRO, UL/CSA Class I Division 1 Groups A-D, UL/CSA Class II Division 1 Groups E-G
- Certification included as standard

DEH*70		Hydraulic symbol	Materials
Hazardous Area Electrical Differential Pressure Indicator Connection IEC 61076-2-101 D (M12)			<ul style="list-style-type: none"> - Body: AISI 316L with internal engineered resin switch - Contacts: Rhodium - Seal: FPM - MFQ
Settings	Ordering code	Electrical symbol	Technical data
2.0 bar ±10%	DE H 20 x A 70 P01		<ul style="list-style-type: none"> - Max working pressure: 420 bar - Proof pressure: 630 bar - Burst pressure: 1260 bar - Working temperature: From -60 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids
5.0 bar ±10%	DE H 50 x A 70 P01		<ul style="list-style-type: none"> - Protection class: Ex Ia IIC T6: intrinsically safe - Temperature class: T6 (85 °C) - 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)
7.0 bar ±10%	DE H 70 x A 70 P01		Electrical data
			<ul style="list-style-type: none"> - Connection IEC 61076-2-101 D (M12) - Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vdc - Electrical Ratings: <ul style="list-style-type: none"> U_i = 30 Vdc I_i = 250 mA P_i = 1.3 W
<ul style="list-style-type: none"> - Certification / Approvals: ATEX, IECEx, EAC TR CU, INMETRO - Certification included as standard 			

DEM*F10		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Connection: AMP Superseal series 1.5			<ul style="list-style-type: none"> - 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 F 10 P01		<ul style="list-style-type: none"> - 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
2.0 bar ±10%	DE M 20 x F 10 P01		<ul style="list-style-type: none"> - Degree protection: IP66 according to EN 60529
5.0 bar ±10%	DE M 50 x F 10 P01		Electrical data
7.0 bar ±10%	DE M 70 x F 10 P01		<ul style="list-style-type: none"> - Electrical connection: AMP Superseal series 1.5 - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")
9.5 bar ±10%	DE M 95 x F 10 P01		
			

DEM*F20		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator AMP Time junior			<ul style="list-style-type: none"> - 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 F 20 P01		<ul style="list-style-type: none"> - 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
2.0 bar ±10%	DE M 20 x F 20 P01		<ul style="list-style-type: none"> - Degree protection: IP66 according to EN 60529
5.0 bar ±10%	DE M 50 x F 20 P01		Electrical data
7.0 bar ±10%	DE M 70 x F 20 P01		<ul style="list-style-type: none"> - Electrical connection: AMP Time junior - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")
9.5 bar ±10%	DE M 95 x F 20 P01		
			

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

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

A/F 28
Max tightening torque: 65 N·m

flexible cable: 240 to "A"

Hydraulic symbol

Electrical symbol

Thermal lockout

Materials

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

Technical data

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

Electrical data

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

DEM*F35	
Electrical Differential Pressure Indicator Deutsch DT-04-3-P	
Settings	Ordering code
1.2 bar ±10%	DE M 12 x F 35 P01
2.0 bar ±10%	DE M 20 x F 35 P01
5.0 bar ±10%	DE M 50 x F 35 P01
7.0 bar ±10%	DE M 70 x F 35 P01
9.5 bar ±10%	DE M 95 x F 35 P01

A/F 28
Max tightening torque: 65 N·m

flexible cable: 240 to "A"

Hydraulic symbol

Electrical symbol

Thermal lockout

Materials

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

Technical data

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

Electrical data

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

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

A/F 28
Max tightening torque: 65 N·m

flexible cable: 290 to "A"

Hydraulic symbol

Electrical symbol

Materials

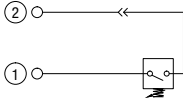
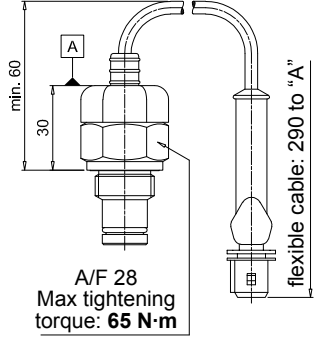
- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR - FPM

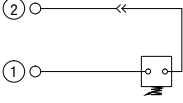
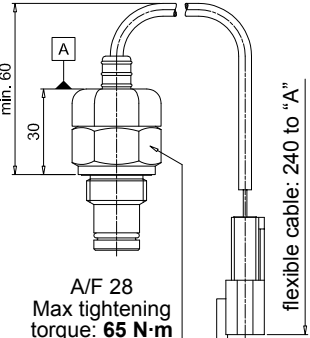
Technical data

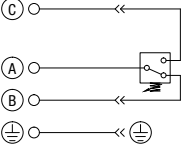
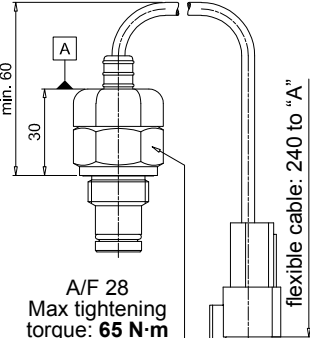
- Max working pressure: 420 bar
- Proof pressure: 630 bar
- Burst pressure: 1260 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529

Electrical data

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

DEM*A20		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator AMP Time junior			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x A 20 P01	Electrical symbol 	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
2.0 bar ±10%	DE M 20 x A 20 P01		
5.0 bar ±10%	DE M 50 x A 20 P01		
7.0 bar ±10%	DE M 70 x A 20 P01		
9.5 bar ±10%	DE M 95 x A 20 P01		
 <p>A/F 28 Max tightening torque: 65 N·m</p>		Electrical data - Electrical connection: AMP Time junior - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request)	

DEM*A30		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Deutsch DT-04-2-P			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x A 30 P01	Electrical symbol 	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
2.0 bar ±10%	DE M 20 x A 30 P01		
5.0 bar ±10%	DE M 50 x A 30 P01		
7.0 bar ±10%	DE M 70 x A 30 P01		
9.5 bar ±10%	DE M 95 x A 30 P01		
 <p>A/F 28 Max tightening torque: 65 N·m</p>		Electrical data - Electrical connection: Deutsch DT-04-2-P - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request)	

DEM*A35		Hydraulic symbol	Materials
Electrical Differential Pressure Indicator Deutsch DT-04-3-P			
Settings	Ordering code		
1.2 bar ±10%	DE M 12 x A 35 P01	Electrical symbol 	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
2.0 bar ±10%	DE M 20 x A 35 P01		
5.0 bar ±10%	DE M 50 x A 35 P01		
7.0 bar ±10%	DE M 70 x A 35 P01		
9.5 bar ±10%	DE M 95 x A 35 P01		
 <p>A/F 28 Max tightening torque: 65 N·m</p>		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	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE S 12 H A 10 P01
2.5 bar $\pm 10\%$	DE S 25 H A 10 P01
4.0 bar $\pm 10\%$	DE S 40 H A 10 P01

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids

- Degree protection: IP67 according to EN 60529

Electrical data

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids

- Degree protection: IP67 according to EN 60529

Electrical data

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

DES*80	
Electrical Differential Pressure Indicator Stud #10-32 UNF	
Settings	Ordering code
1.2 bar $\pm 10\%$	DE S 12 H A 80 P01
2.5 bar $\pm 10\%$	DE S 25 H A 80 P01
4.0 bar $\pm 10\%$	DE S 40 H A 80 P01

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

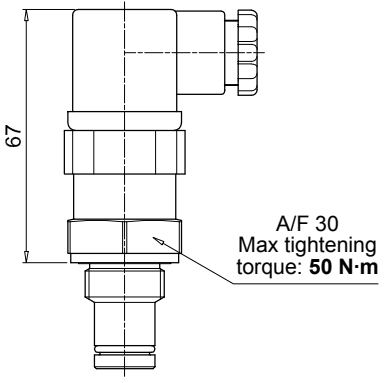
- Max working pressure: 16 bar
- Proof pressure: 24 bar
- Burst pressure: 48 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids

- Degree protection: IP67 according to EN 60529

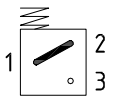
Electrical data

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

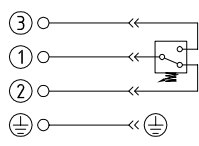
DEU*50 UL	
Electrical Differential Pressure Indicator Connection EN 175301-803	
Settings	Ordering code
2.0 bar ±10%	DE U 20 V A 50 P01 UL
5.0 bar ±10%	DE U 50 V A 50 P01 UL
7.0 bar ±10%	DE U 70 V A 50 P01 UL



Hydraulic symbol



Electrical symbol



UL
- Certification: UL
- Certification included as standard

Materials

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

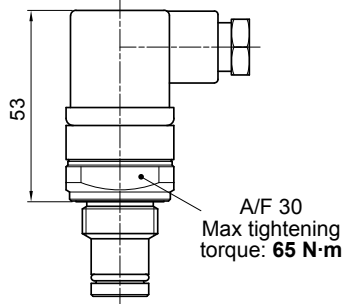
Technical data

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

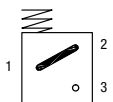
Electrical data

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

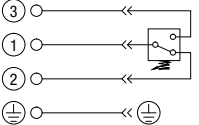
DEX*50	
Electrical Differential Pressure Indicator Connection: EN 175301-803	
Settings	Ordering code
1.2 bar ±10%	DE X 12 x A 50 P01
2.0 bar ±10%	DE X 20 x A 50 P01
5.0 bar ±10%	DE X 50 x A 50 P01
7.0 bar ±10%	DE X 70 x A 50 P01
9.5 bar ±10%	DE X 95 x A 50 P01



Hydraulic symbol



Electrical symbol



Materials

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

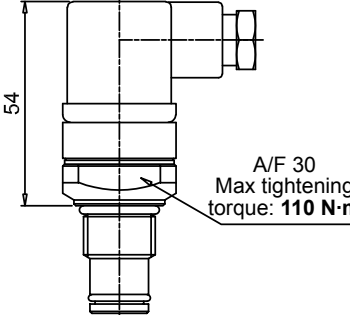
Technical data

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

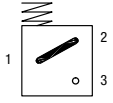
Electrical data

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

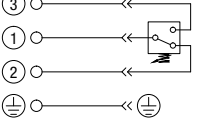
DEZ*50	
Electrical Differential Pressure Indicator Connection: EN 175301-803	
Settings	Ordering code
1.2 bar ±10%	DE Z 12 x A 50 P01
2.5 bar ±10%	DE Z 25 x A 50 P01
5.0 bar ±10%	DE Z 50 x A 50 P01
7.0 bar ±10%	DE Z 70 x A 50 P01
9.5 bar ±10%	DE Z 95 x A 50 P01



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

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DTA*F70	
Electronic Differential Pressure Indicator Connection: IEC 61076-2-101 D (M12)	
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

A/F 30
Max tightening torque: **50 N·m**

Hydraulic symbol

Materials

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

Technical data

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

Electrical data

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

Electrical symbol

①	○	○	+24 Vdc
②	○	○	4 ÷ 20 mA
③	○	○	75% - N.O. Digital output
④	○	○	100% - N.O. Digital output
⑤	○	○	0 Vdc

DVA	
Visual Differential Pressure Indicator	
Settings	Ordering code
1.2 bar ±10%	DV A 12 x P01
2.0 bar ±10%	DV A 20 x P01
5.0 bar ±10%	DV A 50 x P01
7.0 bar ±10%	DV A 70 x P01
9.5 bar ±10%	DV A 95 x P01

Green / Red
clogging indicator

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

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

DVM	
Visual Differential Pressure Indicator	
Settings	Ordering code
1.2 bar ±10%	DV M 12 x P01
2.0 bar ±10%	DV M 20 x P01
5.0 bar ±10%	DV M 50 x P01
7.0 bar ±10%	DV M 70 x P01
9.5 bar ±10%	DV M 95 x P01

Red
clogging indicator

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

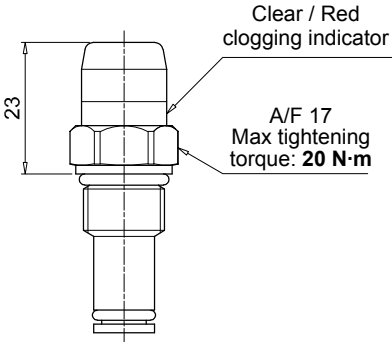
Hydraulic symbol

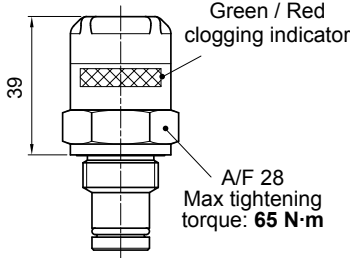
Materials

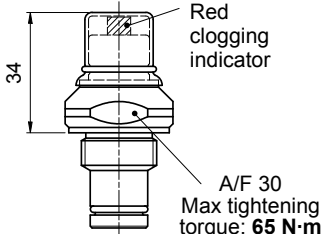
- Body: Brass
- Internal parts: Brass - Polyamide
- Seal: HNBR - FPM

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

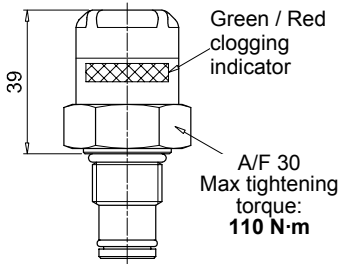
DVS		Hydraulic symbol	Materials
Visual Differential Pressure Indicator			
Settings	Ordering code		
1.2 bar ±10%	DV S 12 H P01	Technical data - Reset: Automatic reset - Max working pressure: 16 bar - Proof pressure: 24 bar - Burst pressure: 48 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP67 according to EN 60529	
2.5 bar ±10%	DV S 25 H P01		
4.0 bar ±10%	DV S 40 H P01		
			

DVX		Hydraulic symbol	Materials
Visual Differential Pressure Indicator			
Settings	Ordering code		
1.2 bar ±10%	DV X 12 x P01	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	
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		Hydraulic symbol	Materials
Visual Differential Pressure Indicator			
Settings	Ordering code		
1.2 bar ±10%	DV Y 12 x P01	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	
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		
			

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DVZ		Hydraulic symbol	Materials
Visual Differential Pressure Indicator			
Settings	Ordering code	Technical data	
1.2 bar ±10%	DV Z 12 x P01	- 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	
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		
			

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