

DIFFERENTIAL PRESSURE INDICATORS

**CLOGGING
INDICATORS**



D DIFFERENTIAL PRESSURE INDICATORS

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

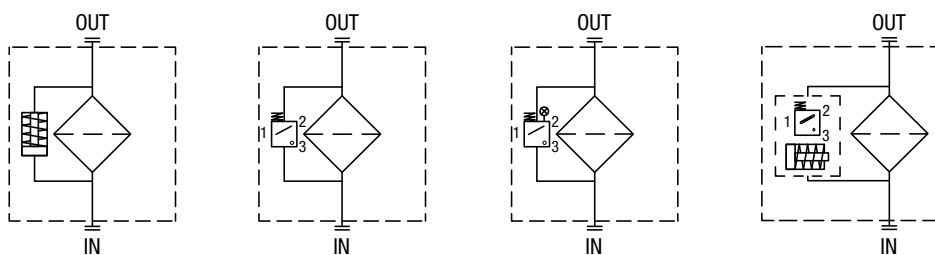
They measure the pressure upstream and downstream of the filter element (differential pressure).

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 Pressure Indicators



DESIGNATION, ORDERING CODES & TECHNICAL DATA

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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	DE	DL	DT	DV
DE Electrical differential pressure indicator	•	•	•	A With automatic reset
DL Electrical/Visual differential pressure indicator	-	-	•	M With manual reset
DT Electronic differential pressure indicator	•	-	-	
DV Visual differential pressure indicator	•	-	-	

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	DEU	OTHERS
P01 MP Filtri standard	-	•
Pxx Customized	•	-

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

Configuration example 1: DE M 12 H F 50 P01

Configuration example 2: DE U 50 V A 50 P01 UL

Configuration example 3: DL E 20 V A 71 P01

Configuration example 4: DT A 50 H F 70 P01

Configuration example 5: DV M 70 V P01

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	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 MULTIPORT	•	•	•	-	-	•	•	•	•	•	•	-
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:	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
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	-	-	-	•	-	-	-

Option
P01 MP Filtri standard
Pxx Customized

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	•	-

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	M	20	H	F	50	P01
DE Electrical differential pressure indicator	Configuration example 2:	DT	I	50	V	A	70	P01
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
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	
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
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	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

DIFFERENTIAL PRESSURE INDICATORS

FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

Designation & Ordering code

APPLICABLE DIFFERENTIAL PRESSURE INDICATORS BY FILTER SERIES

Filter Series	DEH	DVA	DVM	DVX	DVY	DVZ
FMMX	•	•	•	-	-	-
FZP	•	-	-	•	•	-
FZH	-	-	-	-	-	•
FZX	-	-	-	-	-	-

DIFFERENTIAL PRESSURE INDICATORS

Series	Configuration example 1: DE H 50 F A 48 P01						
	Configuration example 2: DV X 70 V P01						
DE Electrical differential pressure indicator							
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	-	•					
Z Stainless steel standard type 700 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	•						
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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

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

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

M20 x 1.5
flexible cable ≈ 5000 to A

min. 110
88

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

Atex Rating

- II 1 GD Ex ia IIC T6 Ga
- Ex ia IIC T4 Ga
- Ex ia IIIC 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

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

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

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

1/2" NPT
flexible cable ≈ 5000 to A

min. 110
88

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

Atex Rating

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

IECEx Rating

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

UL/CSA Rating

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

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

DEH*70		Hydraulic symbol	Materials	
Hazardous Area Electrical Differential Pressure Indicator Connection IEC 61076-2-101 D (M12)				
Settings	Ordering code			
2.0 bar ±10%	DE H 20 x A 70 P01	Electrical symbol 	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)	
5.0 bar ±10%	DE H 50 x A 70 P01			
7.0 bar ±10%	DE H 70 x A 70 P01			
			Electrical data - Resistive Load: 830 mA / 24 Vdc - 180 mA / 110 Vdc - Electrical Ratings: Ui = 30 Vdc / li = 250 mA / Pi = 1.3 W	
A/F 25 Max tightening torque: 100 N·m				
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	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			
1.2 bar ±10%	DE M 12 x F 10 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 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 data - Electrical connection: AMP Superseal series 1.5 - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")	
A/F 28 Max tightening torque: 65 N·m				
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	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*F20		Hydraulic symbol	Materials	
Electrical Differential Pressure Indicator AMP Time junior				
Settings	Ordering code			
1.2 bar ±10%	DE M 12 x F 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 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 data - Electrical connection: AMP Time junior - Resistive load: 0.2 A / 115 Vdc - Switching type: Normally open contacts (NC on request) - Thermal lockout: Normally open up to 30 °C (option "F")	
A/F 28 Max tightening torque: 65 N·m				
		- Certification / Approvals: ATEX, IECEx, EAC TR CU - Certification included as standard	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

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
Electrical Differential Pressure Indicator
 AMP Time junior

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

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

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

- Electrical connection: Deutsch DT-04-2-P
- Resistive load: 0.2 A / 115 Vdc
- Switching type: Normally open contacts (NC on request)

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

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

- Electrical connection: Deutsch DT-04-3-P
- Resistive load: 0.2 A / 115 Vdc
- Switching type: SPDT contact

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

DES*10	
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
HFB and HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

Electrical data

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

DES*30	
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
HFB and HFC according to ISO 2943
- Degree protection: IP67 according to EN 60529

Electrical data

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

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

Hydraulic symbol

Electrical symbol

Materials

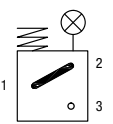
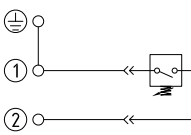
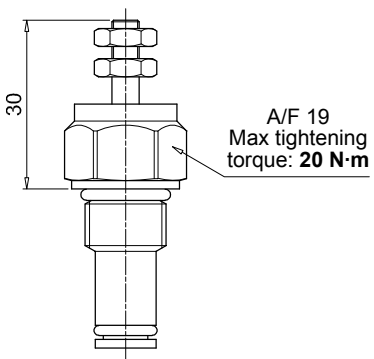
- Body: Aluminium
- Internal parts: Aluminium - Polyamide
- Contacts: Silver
- Seal: HNBR

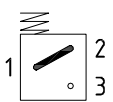
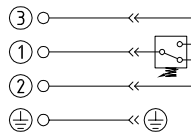
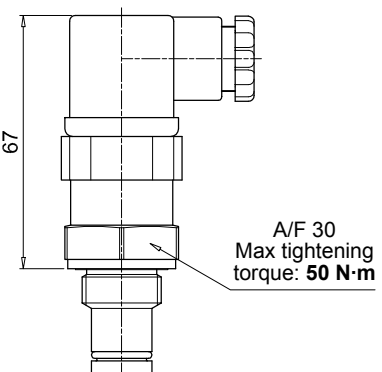

Technical data

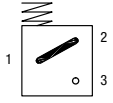
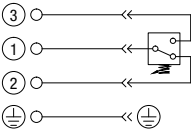
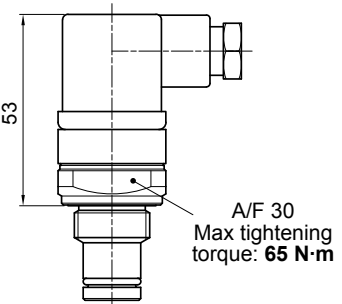
- Max working pressure: 35 bar
- Proof pressure: 53 bar
- Burst pressure: 105 bar
- Working temperature: From -25 °C to +110 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFB and HFC according to ISO 2943
- Degree protection: IP66 according to EN 60529
IP69K according to EN 20653

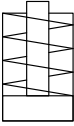
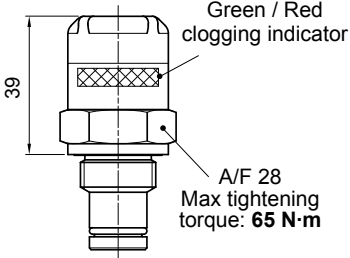
Electrical data

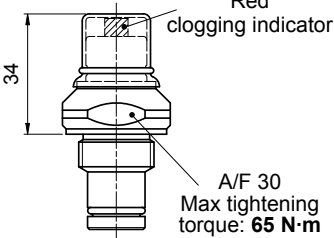
- Electrical connection: EN 175301-803
- Resistive load: 0.2 A / 115 Vdc

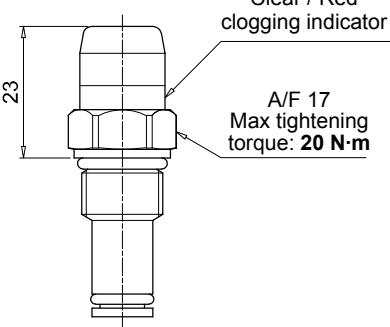
DES*80		Hydraulic symbol	Materials - Body: Brass - Internal parts: Brass - Polyamide - Contacts: Silver - Seal: HNBR
Electrical Differential Pressure Indicator Stud #10-32 UNF			
Settings	Ordering code	Electrical symbol	Technical data - Max working pressure: 16 bar - Proof pressure: 24 bar - Burst pressure: 48 bar - Working temperature: From -25 °C to +110 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree protection: IP67 according to EN 60529
1.2 bar ±10%	DE S 12 HA 80 P01		
2.5 bar ±10%	DE S 25 HA 80 P01	Electrical data - Electrical connection: Stud #10-32 UNF - Resistive load: 0.2 A / 24 Vdc - Switching type: Normally open contacts (NC on request)	
4.0 bar ±10%	DE S 40 HA 80 P01		
			

DEU*50 UL		Hydraulic symbol	Materials - Body: Brass - Base: Black Polyamide - Contacts: Silver - Seal: FPM
Electrical Differential Pressure Indicator Connection EN 175301-803			
Settings	Ordering code	Electrical symbol	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
2.0 bar ±10%	DE U 20 V A 50 P01 UL		
5.0 bar ±10%	DE U 50 V A 50 P01 UL	Electrical data - Electrical connection: EN 175301-803 - Resistive load: 3 A / 30 Vdc 3 A / 125 Vac 3 (3) A / 250 Vac	
7.0 bar ±10%	DE U 70 V A 50 P01 UL		
			
		 - Certification: UL - Certification included as standard	

DEX*50		Hydraulic symbol	Materials - Body: AISI 316L - Base: Black polyamide - Contacts: Silver - Seal: HNBR - MFQ
Electrical Differential Pressure Indicator Connection: EN 175301-803			
Settings	Ordering code	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 IP69K according to ISO 20653
1.2 bar ±10%	DE X 12 x A 50 P01		
2.0 bar ±10%	DE X 20 x A 50 P01	Electrical data - Electrical connection: EN 175301-803 - Resistive load: 0.2 A / 115 Vdc	
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		
			

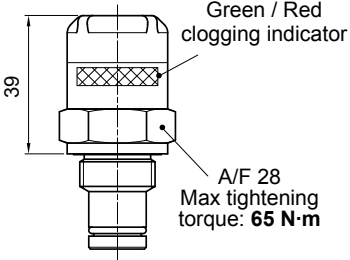
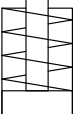
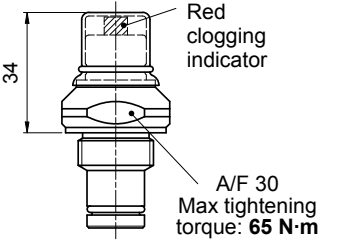
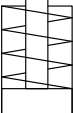
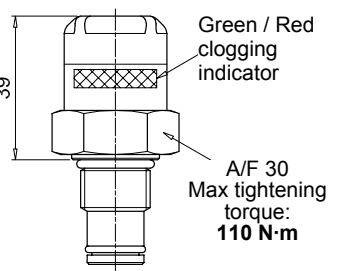
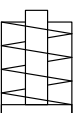
DVA		Hydraulic symbol	Materials
Visual Differential Pressure Indicator			
Settings	Ordering code		- Body: Brass - Internal parts: Brass - Polyamide - Seal: HNBR - FPM
1.2 bar ±10%	DV A 12 x P01		
2.0 bar ±10%	DV A 20 x P01		
5.0 bar ±10%	DV A 50 x P01		
7.0 bar ±10%	DV A 70 x P01		
9.5 bar ±10%	DV A 95 x P01	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		Hydraulic symbol	Materials
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	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	
9.5 bar ±10%	DV M 95 x P01		
			

DVS		Hydraulic symbol	Materials
Visual Differential Pressure Indicator Connection: EN 175301-803			
Settings	Ordering code		
1.2 bar ±10%	DV S 12 H P01		
2.5 bar ±10%	DV S 25 H P01		
4.0 bar ±10%	DV S 40 H P01	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	
			

DIFFERENTIAL PRESSURE INDICATORS

Dimensions

<p style="text-align: center;">DVX</p> <p style="text-align: center;">Visual Differential Pressure Indicator</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Settings</th> <th>Ordering code</th> </tr> </thead> <tbody> <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> </tbody> </table>  <p style="text-align: center;">Green / Red clogging indicator</p> <p style="text-align: center;">A/F 28 Max tightening torque: 65 N·m</p> <p style="text-align: center;">39</p>	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	<p style="text-align: center;">Hydraulic symbol</p> 	<p>Materials</p> <ul style="list-style-type: none"> - Body: AISI 316L - Internal parts: AISI 316L - Polyamide - Seal: HNBR - MFQ <p>Technical data</p> <ul style="list-style-type: none"> - 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													
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