



Indicatori di
pressione
barometrica
MP Filtri



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

BAROMETRIC PRESSURE INDICATORS

CLOGGING
INDICATORS



B BAROMETRIC (PRESSURE) INDICATORS

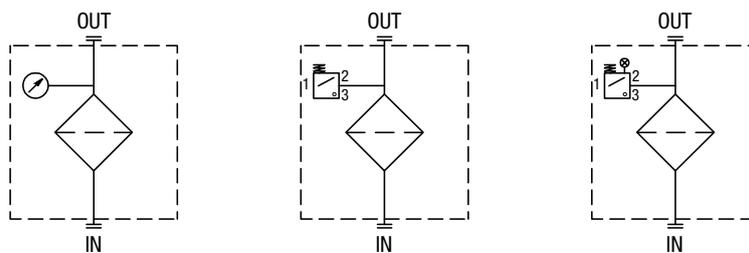
Pressure indicators are used on the Return line to check the efficiency of the filter element. They measure the pressure upstream of the filter element.

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



Barometric Indicators



DESIGNATION, ORDERING CODES & TECHNICAL DATA

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APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

| Filter Series | BEA | BEM | BET | BLA | BVA | BVR | BVP | BVQ |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| RFEX | • | • | - | • | • | • | • | • |
| MPFX | • | • | • | • | • | • | • | • |
| MPLX | - | - | - | - | - | - | - | - |
| MPTX | • | • | • | • | • | • | • | • |
| MFBX | - | - | - | - | - | - | - | - |
| MPF | • | • | • | • | • | • | • | • |
| MPT | • | • | • | • | • | • | • | • |
| MFB | - | - | - | - | - | - | - | - |
| MDH | • | • | • | • | • | • | • | • |
| MPH | • | • | - | • | • | • | • | • |
| MPI | - | - | - | - | - | - | - | - |
| FRI (all sizes, except 255) | - | - | - | - | - | - | - | - |
| FRI 255 | • | • | - | • | • | • | • | • |
| RF2 | - | - | - | - | - | - | - | - |

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 | • | - | - | - |

Designation & Ordering code

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-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 |
|--|-----|-----|-----|----|
| 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 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 |
|--|--------------------------|----|---|----|---|---|----|-----|
| 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-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 | 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 | • | - | - | - |

BAROMETRIC (PRESSURE) INDICATORS

Dimensions

| BEA*50 (EX) | |
|--|---|
| Electrical Pressure Indicator Connection EN 175301-803 | |
| 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 |

A/F 27
Max tightening torque: 25 N·m

EN 10226 - R1/8"

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: EN 175301-803
- Resistive load: 5 A / 14 Vdc
4 A / 30 Vdc
5 A / 125 Vac
4 A / 250 Vac

Certification: ATEX, IECEx
- Certification included in EX version

| BEA*50 UL | |
|--|----------------------|
| Electrical Pressure Indicator Connection EN 175301-803 | |
| 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 |

A/F 27
Max tightening torque: 25 N·m

EN 10226 - R1/8"

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: EN 175301-803
- Resistive load: 5 A / 14 Vdc
4 A / 30 Vdc
5 A / 125 Vac
4 A / 250 Vac

Certification: UL
- Certification included as standard

| BEM*41 | |
|--|-------------------|
| Electrical Pressure Indicator Connection via four-core cable | |
| Settings | Ordering code |
| 1.5 bar ±10% | BE M 15 HA 41 P01 |
| 2.0 bar ±10% | BE M 20 HA 41 P01 |

A/F 27
Max tightening torque: 25 N·m

EN 10226 - R1/8"

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: IP67 according to EN 60529

Electrical data

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

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

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

Hydraulic symbol

Electrical symbol

Materials

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

Technical data

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

Electrical data

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

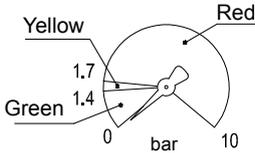
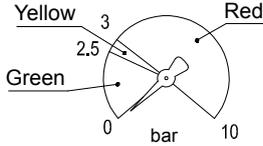
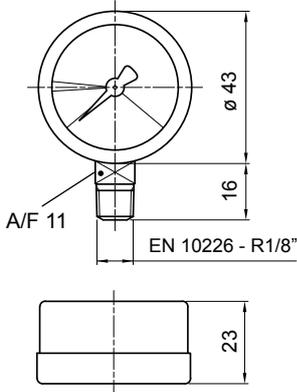
BAROMETRIC (PRESSURE) INDICATORS

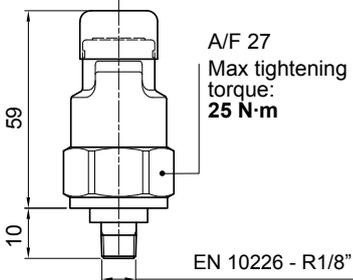
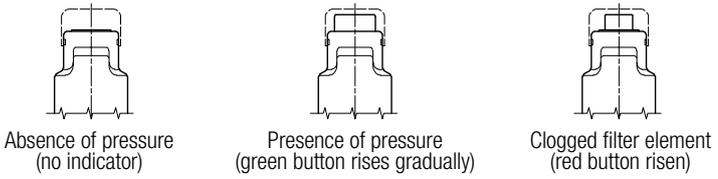
Dimensions

| BL*51 - BL*52 - BL*53 | |
|---|--------------------|
| 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 | |
| Settings | Ordering code |
| 1.5 bar \pm 10% | BL A 15 H A xx P01 |
| 2.0 bar \pm 10% | BL A 20 H A xx P01 |
| | |
| 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 | |

| BL*71 | |
|---|--------------------|
| Electrical/Visual Pressure Indicator Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc | |
| Settings | Ordering code |
| 1.5 bar \pm 10% | BL A 15 H A 71 P01 |
| 2.0 bar \pm 10% | BL A 20 H A 71 P01 |
| | |
| 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 | |

| BVA | |
|--|---------------|
| Axial Pressure Gauge | |
| Settings | Ordering code |
| 1.4 bar \pm 10% | BV A 14 P01 |
| 2.5 bar \pm 10% | BV A 25 P01 |
| | |
| Hydraulic symbol | |
| Dial scale BV A 14 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 | |
| Dial scale BV A 25 P01 | |

| BVR | | Hydraulic symbol | Materials |
|---|---------------|--|--|
| Radial Pressure Gauge | | | |
| Settings | Ordering code | | |
| 1.4 bar ±10% | BV R 14 P01 | Dial scale BV R 14 P01  | |
| 2.5 bar ±10% | BV R 25 P01 | | BV R 25 P01  |
|  | | 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 | |

| BVP - BVQ | | Hydraulic symbol | Materials |
|---|---------------|---|-----------|
| Visual Pressure Indicator | | | |
| BVP - Automatic reset BVQ - Manual reset | | | |
| Setting | Ordering code | Technical data - Reset: BVP - Automatic reset BVQ - Manual reset - Max working pressure: 10 bar - Proof pressure: 15 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP45 according to EN 60529 | |
| 1.5 bar ±10% | BV P 15 H P01 | | |
| | BV Q 15 H P01 | | |
| 2.0 bar ±10% | BV P 20 H P01 | | |
| | BV Q 20 H P01 | | |
|  | | Signals  | |

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