

SERIES



MRS - LMP

Return/Suction Filter

In-Line/Return/Suction Filter



Maximum flow to 120 l/min



Technical data

MRS 116

Filter housing (Materials)

- Head: Aluminium
- Cover: Nylon
- Bowl: Nylon

LMP 124

Filter housing (Materials)

- Head: Aluminium
- Housing: Steel Cataphoresis Painting
- Bypass valve: Brass - Aluminium

MRS 116 - Pressure

- Working pressure: 10 bar

LMP 124 - Pressure

- Working pressure: 80 bar (8 MPa)
- Test pressure: 120 bar (12 MPa)
- Burst pressure: 380 bar (38 MPa)
- Pulse pressure fatigue test: 1.000.000 cycles with pressure from 0 to 80 bar (8 MPa)

Temperature

- From -25 °C to +110 °C

Δp Elements

- RS: 10 bar (MRS)
- CU: 20 bar (LMP)
- Oil flow from exterior to interior.

Seals

- Standard NBR series A
- Optional FPM series V

Weights (kg)

Length	1	2	3	4
• MRS 116	1,30	1,40	-	-
• LMP 124	1,70	1,90	2,20	2,70

Volumes (dm³)

Length	1	2	3	4
• MRS 116	0,80	1,00	-	-
• LMP 124	0,75	0,81	1,11	1,53

MRS - LMP

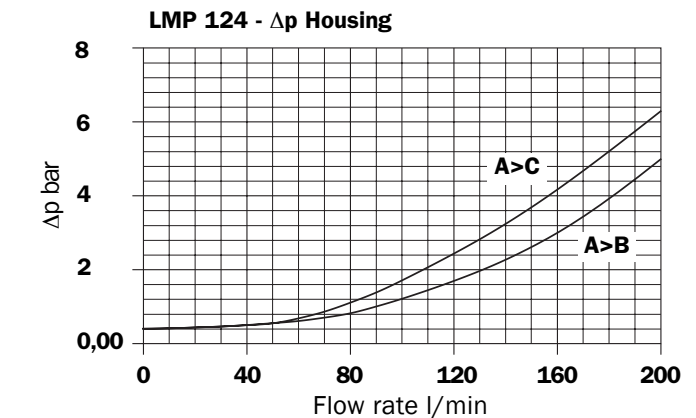
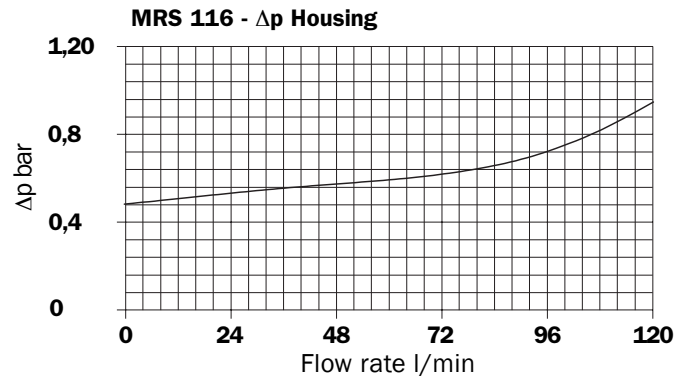
Compatibility (to ISO 2943)

- Mineral oils
- Synthetic fluids
- Biodegradable fluids

Filter housings Δp pressure drop

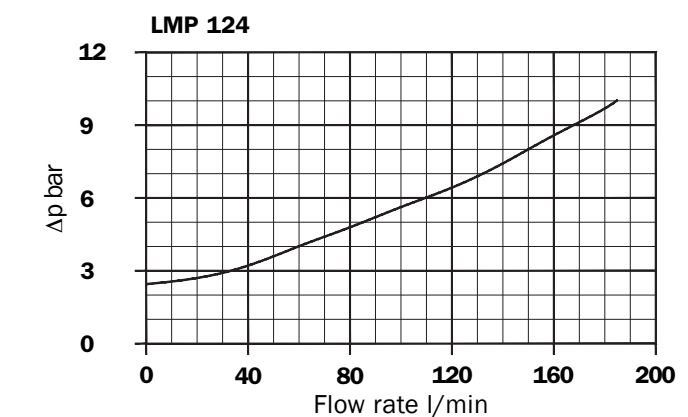
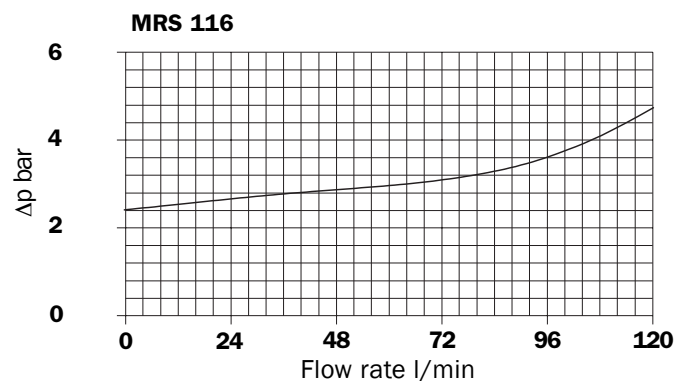
The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

Δp varies proportionally with density.



Valves

Bypass valve pressure drop



Multiplication factor “Y” for definition of the pressure drop of filter elements.

Reference viscosity 30 mm²/s

Filter Element	Absolute Filtration			
	N Series			
Type	A 1 0	A 1 6	A 2 5	
CU 110	1	8,754	8,142	5,875
	2	6,111	6,024	4,155
	3	5,066	4,066	2,397
	4	2,798	2,358	1,142
RS 116	1	5,12	4,33	3,85
	2	2,22	1,87	1,22

Sizing data for single cartridge, head at top

Δp Tot.

Δp_c Filter housing

Δp_e Filter element

Y Multiplication factor (see below)

Q l/min = flow rate

V1 = reference viscosity 30 mm²/s (cSt)

V2 = operating viscosity in mm²/s (cSt)

Δp Tot. = $\Delta p_c + \Delta p_e$

$\Delta p_e = Y : 1000 \times Q \times (V2/V1)$

Calculation example with HLP Mineral Oil Variation in viscosity

Data:

Filter with in-line connections

Pressure = 6 bar

Flow rate = 80 l/min

Viscosity = 46 mm²/s (cSt)

Density = 0,86 Kg/dm³

Filtration = 10 μ absolute

With bypass valve

Practical example

Δp_e Filter housing

Q = 80 l/min

V₂ = 46 mm²/s (cSt)

P_{max} = 6 bar

Filtration = 10 μ absolute

Δp Tot. max = **0,4 bar** (max. recommended value)

$\Delta p_e = (2,22 : 1000) \times 80 \times (46/30) = 0,27 \text{ bar}$

Δp_c Filter housing

Q tot = 80 l/min

Q1 to the tank = 48 l/min

Q2 to the pump = 32 l/min

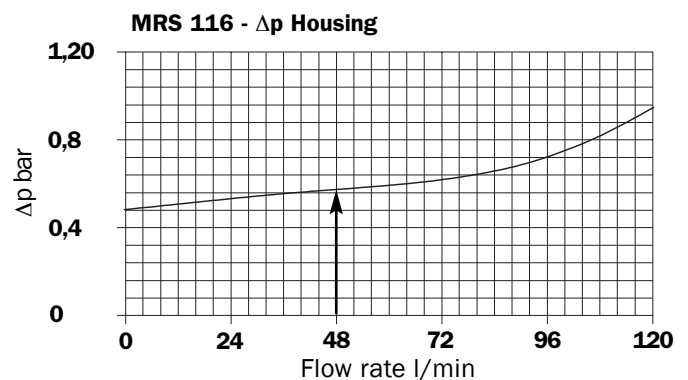
Filter type - MRS 116 (see below housings pressure drop)

Δp Tot. max 1 - 1,6 bar = $\Delta p_c + \Delta p_e$

Δp Tot. = **0,6 (Q1) + 0,27 = 0,87 bar**

Sized filter type:

MRS 116 2 F A G2 0 A10 S P01



Hydraulic schemes

LEGEND

1 - Filter element

2 - Back-Pressure valve: opening pressure 0,5 bar \pm 10%

3 - Bypass valve: opening pressure 2,5 bar \pm 10%

4 - Depressurization valve

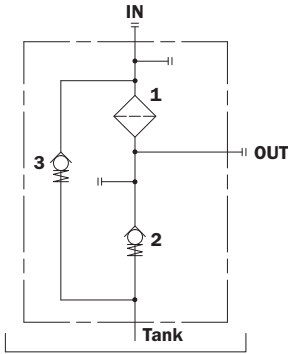
5 - Anti-Cavitation valve

6 - Safety filter element (wire mesh 60 μ m)

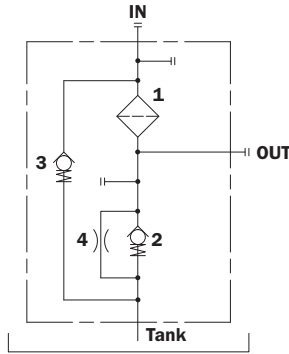
7 - Anti-Cavitation valve / Anti-Emptying valve

MRS 116

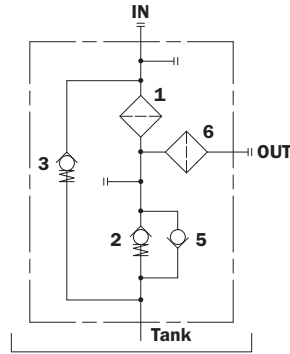
Valves "A" option



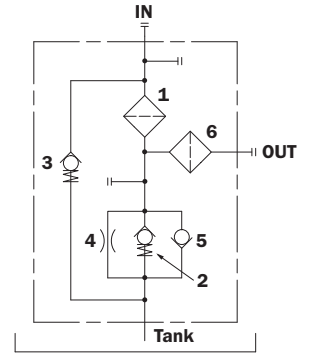
Valves "B" option



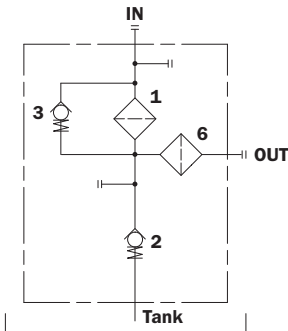
Valves "C" option



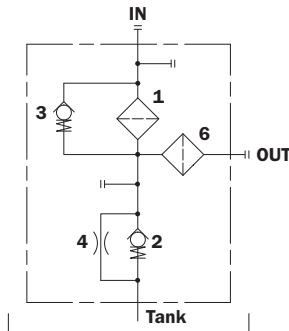
Valves "D" option



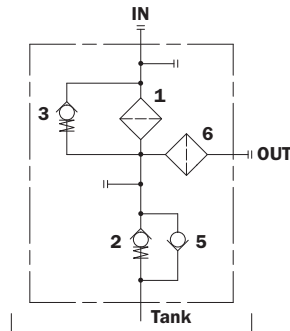
Valves "E" option



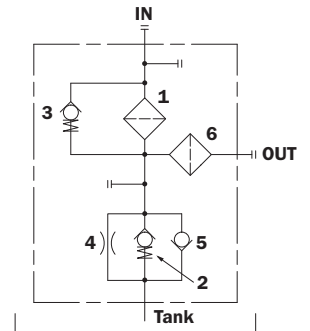
Valves "F" option



Valves "G" option

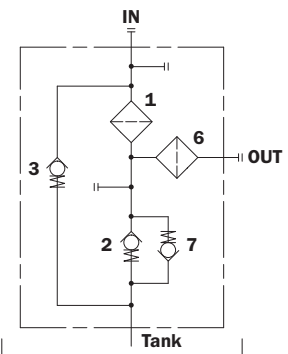


Valves "H" option

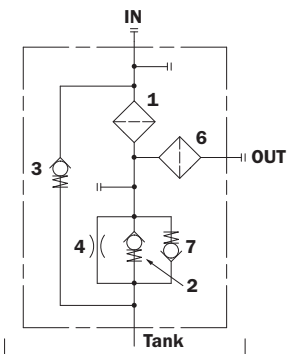


Suitable only for tank side-wall mounting

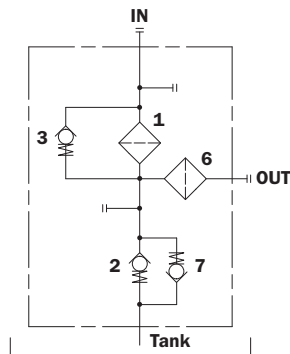
Valves "I" option



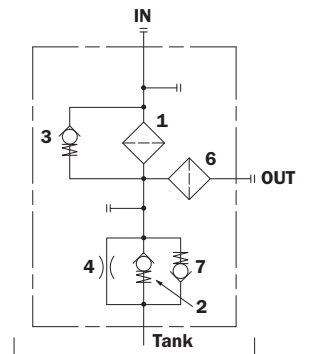
Valves "L" option



Valves "M" option

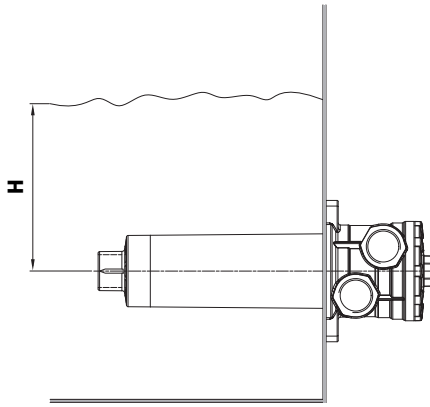


Valves "N" option

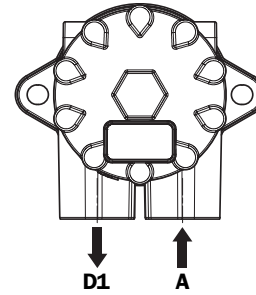


Tank side-wall mounting application

Port configuration



MRS 116



H= max. 800 mm

Only for hydraulic schemes:
I - L - M - N

Thread connections

Code	A (IN)	D1 (OUT)	T (Indicator port)
MRS 116 x x G1 0 xxx x P01	G 3/4"	G 3/4"	G 1/8"
MRS 116 x x G2 0 xxx x P01	G 1"	G 1"	G 1/8"
MRS 116 x x G3 0 xxx x P01	3/4" NPT	3/4" NPT	1/8" NPT
MRS 116 x x G4 0 xxx x P01	1" NPT	1" NPT	1/8" NPT
MRS 116 x x G5 0 xxx x P01	SAE 12	SAE 12	1/8" NPT
MRS 116 x x G6 0 xxx x P01	SAE 16	SAE 16	1/8" NPT
MRS 116 x x D1 0 xxx x P01	G 1"	G 3/4"	G 1/8"
MRS 116 x x D2 0 xxx x P01	1" NPT	3/4" NPT	1/8" NPT
MRS 116 x x D3 0 xxx x P01	SAE 16	SAE 12	1/8" NPT

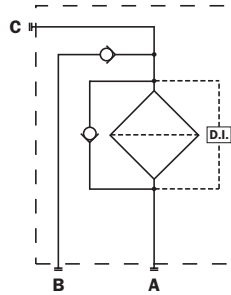
Hydraulic schemes

LMP 124

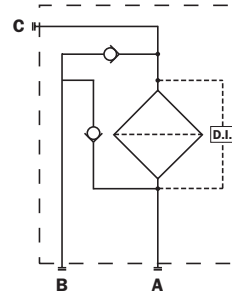
Style C - D - E - F



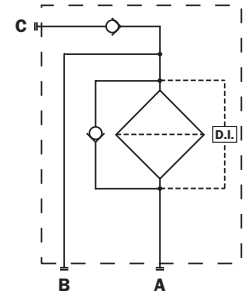
Style C
LMP 124



Style E
LMP 124

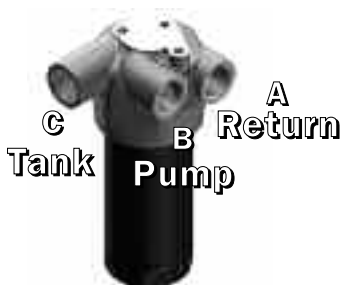


Style G
LMP 124

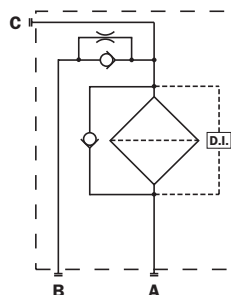


LMP 124

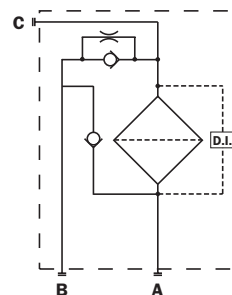
Style G - H



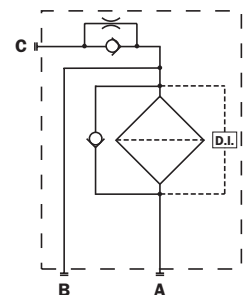
Style D
LMP 124



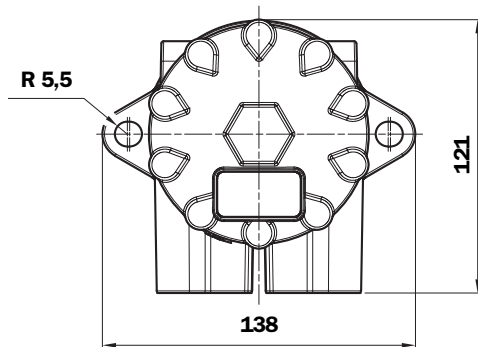
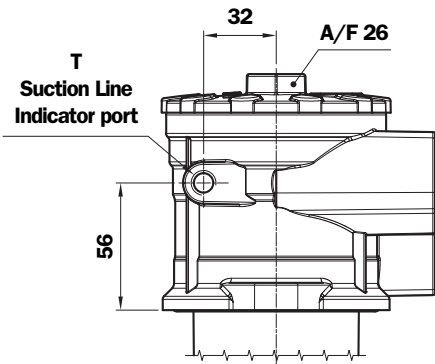
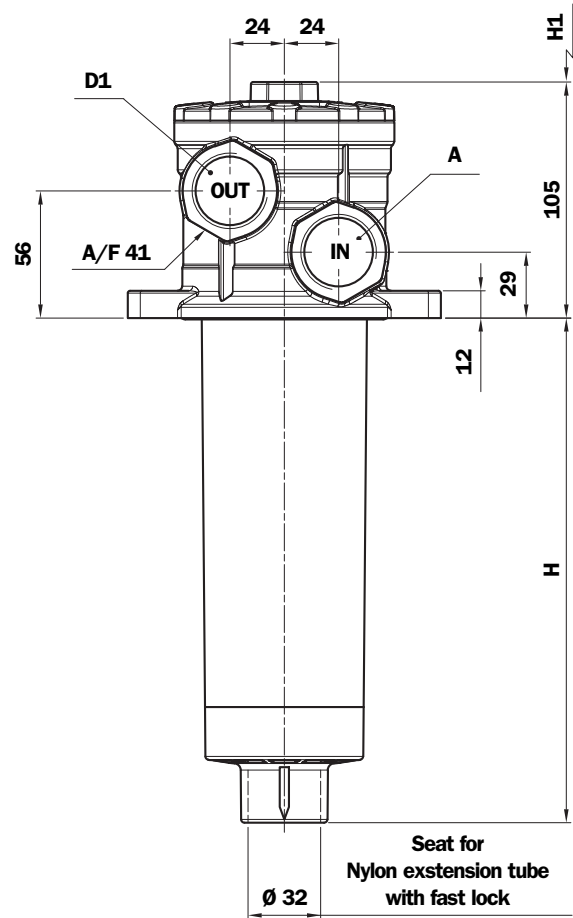
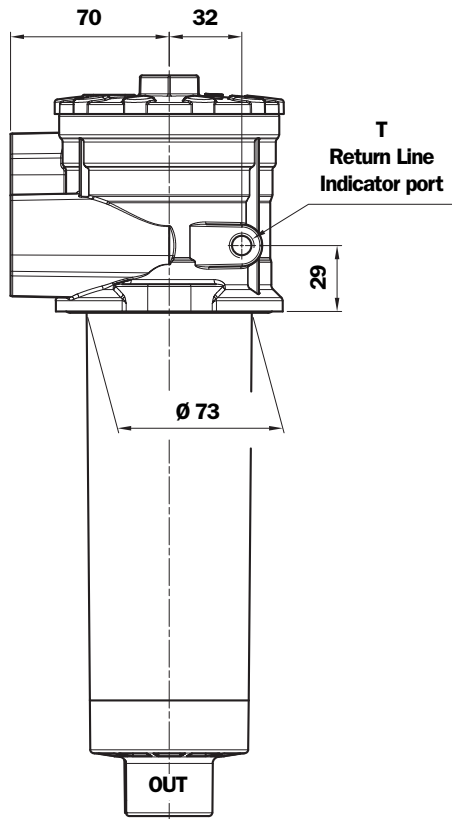
Style F
LMP 124



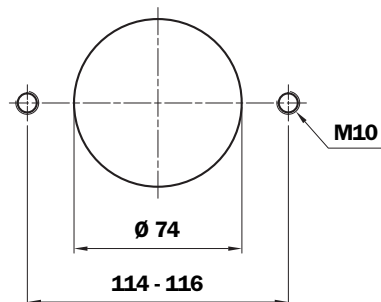
Style H
LMP 124



MRS 116



Holes on the tank

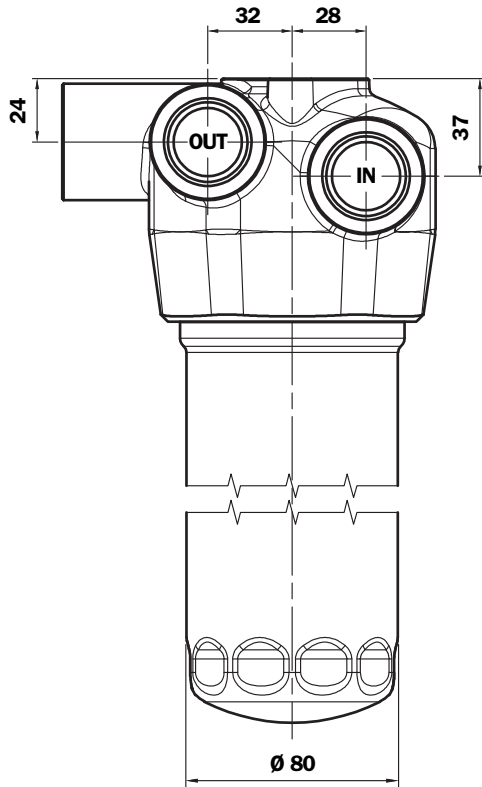


MRS 116

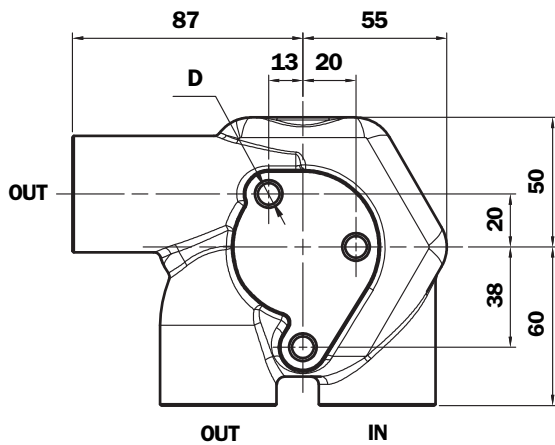
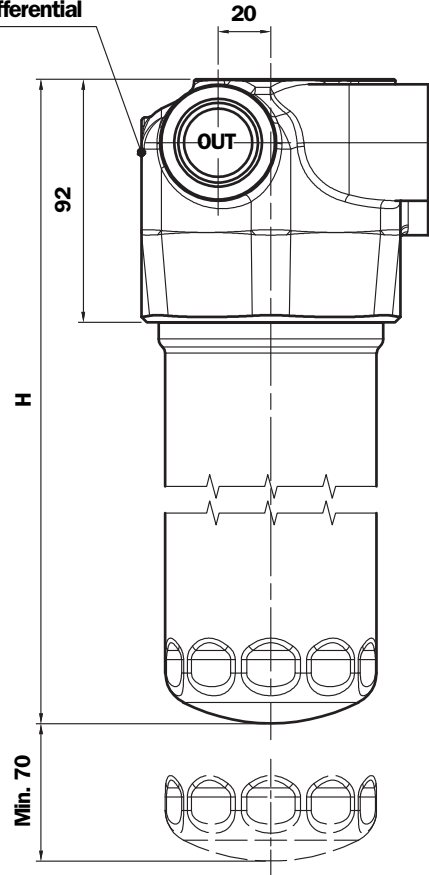
Filter Length	H mm	H1 mm
1	203	240
2	263	300

See page 5 to choose thread connections

LMP 124



Indicator port for:
Barometric,
Vacuum & Differential



LMP 124

Length Filter	H mm
1	182
2	215
3	265
4	365

Type	Connection IN - OUT	Fixing holes D
B	G 1"	M10 x depth 12 mm
F	SAE 16	3/8" UNC x depth 12 mm

Ordering information MRS 116

Filter assembly

MRS

Example: MRS

1	2	3	4a	5	6	7	8	9
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
116	1	A	A	G1	0	A16	S	P01

Filter element

RS

Example: RS

1	2	7	4b	9
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
116	1	A16	A	P01

1 - Size

Filter

Filter element

2 - Filter length

3 - Valves option

A	E
B	F
C	G
D	H

See page 4
for "Hydraulic schemes"

I	M
L	N

Only for tank side-wall
mounting applications
(see point "8 - Style", option "B")

4 - Seals

4a - Filter assembly

A	NBR - O-Ring on head
B	NBR - Flat gasket on head
V	FPM - O-Ring on head
D	FPM - Flat gasket on head

4b - Filter element

A	NBR
V	FPM

5 - Standard connections

MRS 116

G1	G4
G2	G5
G3	G6
D1	
D2	
D3	

See page 5 to choose
threaded connections

6 - Additional IN connections

Without connections

7 - Filter element

A10	Inorganic microfibre 10 μ	Absolute filtration Inorganic Microfibre $\beta_x(c) \geq 1000$
A16	Inorganic microfibre 16 μ	
A25	Inorganic microfibre 25 μ	

8 - Style

S	Standard
B	For tank side-wall mounting applications. Only for valves: A - B - E - F - I - L - M - N

9 - Option

P01	MP Filtri standard
Pxx	On request

Clogging indicators (see page 10, 11)

Ordering information LMP 124

Filter assembly LMP

Example: LMP

1	2	3	4	5	6	7	8	9
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124	2	C	A	B	2	A10	N	P01

Filter element CU110

Example: CU110

2	7	4	8	9
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	A10	A	N	P01

1 - Size

Filter

124

Filter element

110

2 - Filter length

- 1**
- 2**
- 3**
- 4**

3 - Valves option

- C**
- D**
- E**
- F**
- G**
- H**

See page 5
for "Hydraulic schemes"

4 - Filter seals

- A** NBR
- V** FPM
- W** NBR (Compatible with fluid HFA, HFB, HFC)
- On request

5 - Connection

LMP 124

Type	Connection A - B - C
B	G 1"
F	SAE 16

6 - Indicator port (see page from 10 to 13)

- 1** No
- 2** Port G 1/8" switch
For pressure switch
- 3** Port G 1/4"
For pressure switch
- 4** Differential indicator port

7 - Filter element

- A10** Inorganic microfibre 10 μ
 - A16** Inorganic microfibre 16 μ
 - A25** Inorganic microfibre 25 μ
- Absolute filtration
 $\beta_x(c) \geq 1000$

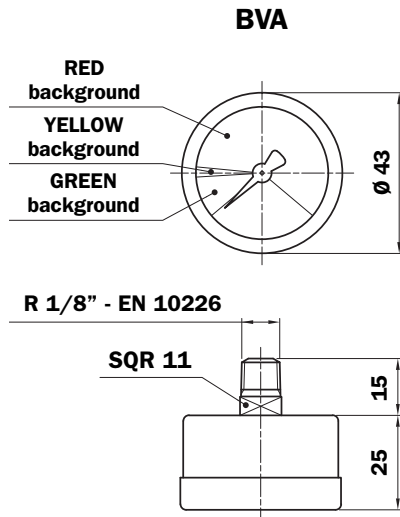
8 - Max filter element differential pressure

- N** Δp 20 bar

9 - Option

- P01** MP Filtri standard
- Pxx** On request

Barometric indicators



Ordering code: **BVA25P01**
 Pressure setting: 2,5 bar \pm 10%

Axial Pressure Gauge

Materials:

- Case: Painted Steel
- Window: Clear plastic
- Dial: Painted Steel
- Pointer: Painted Aluminium
- Pressure connection: Brass
- Pressure element: Bourdon tub cu-alloy soft soldered

Technical data:

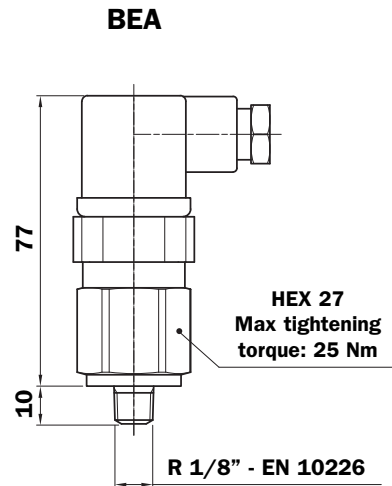
- Indicator type: Axial pressure gauge
- Max working pressure: Static: 7 bar
Fluctuating: 6 bar
Short time: 10 bar
- Working temperature: From -40°C to +60°C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC fluids in according to ISO 2943
- Accuracy class: cl. 2.5
- Protection degree: IP 31 in according to EN 60529

HYDRAULIC SYMBOL



DYED RANGE

- BVA25P01
 GREEN BACKGROUND (from 0 to 2,5 bar)
 Clean filter element
 YELLOW BACKGROUND (from 2,5 to 3 bar)
 Warning
 RED BACKGROUND (from 3 to 10 bar)
 Bypass



Ordering code: **BEA25HA50P01**
 Pressure setting: 2,5 bar \pm 10%

Electrical Pressure Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: NBR

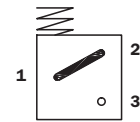
Technical data:

- Indicator type: Electrical pressure indicator
- Max working pressure: 40 bar
- Proof pressure: 60 bar
- Working temperature: From -25°C to +80°C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC fluids in according to ISO 2943

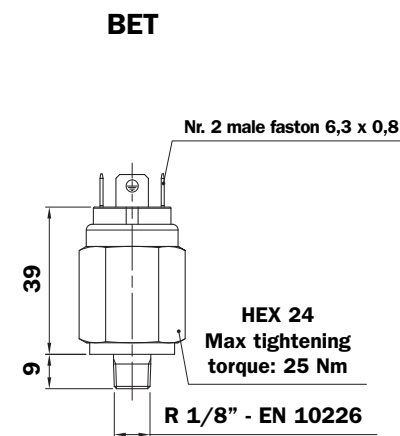
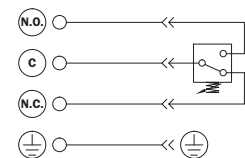
Electrical data:

- Resistive load: 5 A / 14 VDC
4 A / 30 VDC
5 A / 125 VAC
5 A / 250 VAC
- Electrical connections: 50 - EN 175301-803
- Protection degree: IP 65 in according to EN 60529
- Available ATEX product: II 1GD Ex ia IIC Tx Ex ia IIIC Tx °C X

HYDRAULIC SYMBOL



ELECTRICAL SYMBOL



Ordering code: **BET25HF05P01**
 Pressure setting: 2,5 bar \pm 10%

Electrical Pressure Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR

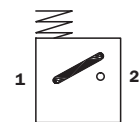
Technical data:

- Indicator type: Electrical pressure indicator with thermostat
- Thermostat setting: 30°C
- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25°C to +100°C
- Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC fluids in according to ISO 2943

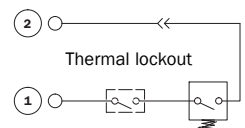
Electrical data:

- Resistive load: 0,5 A / 48 VDC
- Electrical connections: Faston 6,3 x 0,8

HYDRAULIC SYMBOL



ELECTRICAL SYMBOL

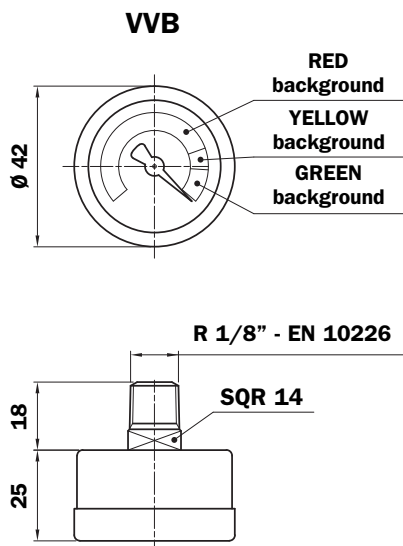


Barometric indicators

Electrical Pressure Indicator available in configuration:

- Connector: EN175301-803
 - Thermostat setting: 30 °C
 - Code: BET25HF50P01
-
- Connector: Deutsch DT-04-2-P
 - Thermostat setting: 30 °C
 - Code: BET25HF31P01
-
- Connector: AMP superseal 1.5 series
 - Thermostat setting: 30 °C
 - Code: BET25HF11P01
-
- Connector: Deutsch DT-04-2P
 - Electrical cable: Length 300 mm
 - Code: BEM25HA31P01
-

Vacuum indicators



Ordering code: **VVB16P01**
Connection: R 1/8" EN 10226

Axial Vacuum Gauge

- Materials:**
- Case: Painted Steel
 - Window: Clear plastic
 - Dial: Painted Steel
 - Pointer: Painted Aluminium
 - Pressure connection: Brass
 - Pressure element: Bourdon tub Cu-alloy soft soldered

- Technical data:**
- Indicator type: Axial vacuum gauge
 - Max working pressure: Static: 7 bar
Fluctuating: 6 bar
Short time: 10 bar
 - Working temperature: From -40 °C to +60 °C
 - Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC fluids in according to ISO 2943
 - Accuracy class: cl. 2.5
 - Protection degree: IP 31 in according to EN 60529

HYDRAULIC SYMBOL



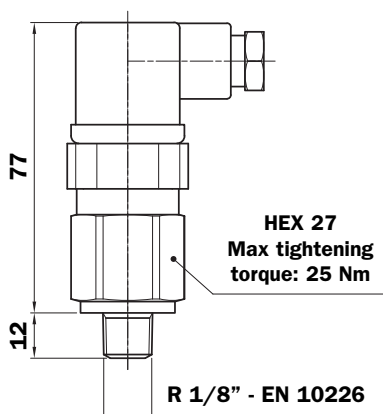
GRADUATED DISPLAY

GREEN BACKGROUND
(from 0 to -12 cmHg)
Clean filter element

YELLOW BACKGROUND
(from -12 to -18 cmHg)
Warning

GREEN BACKGROUND
(from -18 to -76 cmHg)
Bypass

VEB



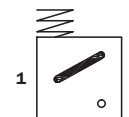
Ordering code: **VEB21AA50P01**
Connection: R 1/8" EN 10226

Electrical Vacuum Indicator

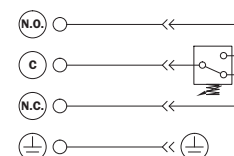
- Materials:**
- Body: Brass
 - Internal parts: Brass - Nylon
 - Seals: NBR
- Technical data:**
- Indicator type: Electrical vacuum indicator
 - Setting pressure: -0,21 bar ±10%
 - Max working pressure: 10 bar
 - Proof pressure: 15 bar
 - Working temperature: From -25 °C to +80 °C
 - Compatibility with fluids: Mineral oils, Synthetic fluids
HFA, HFB, HFC fluids in according to ISO 2943

- Electrical data:**
- Resistive load: 5 A / 14 VDC
4 A / 30 VDC
5 A / 125 VAC
5 A / 250 VAC
 - Electrical connections: 50 - EN 175301-803
 - Protection degree: IP 65 in according to EN 60529
 - Available Atex product II 1GD Ex ia IIC Tx Ex ia IIIC Tx °C X

HYDRAULIC SYMBOL

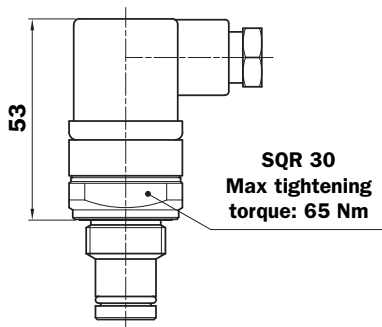


ELECTRICAL SYMBOL



DIFFERENTIAL INDICATORS (only for LMP 124)

DEA



Ordering code: **DEA20xA50P01**

Pressure setting: 2 bar \pm 10%

Electrical Differential Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

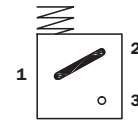
Technical data:

- Indicator type: Electrical differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

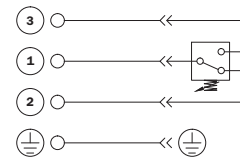
Electrical data:

- Resistive load: 0,2 A / 115 VDC
- Electrical connections: 50 - EN 175301-803
- Protection degree: IP 66 in according to EN 60529
IP 69K in according to ISO 20653

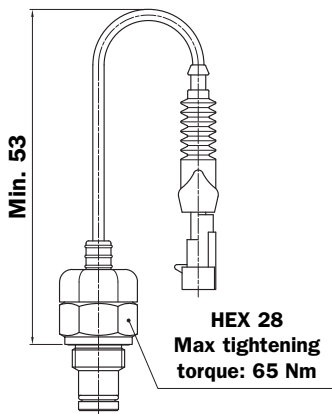
HYDRAULIC SYMBOL



ELECTRICAL SYMBOL



DEM



Ordering code: **DEM20xx10P01**

Pressure setting: 2 bar \pm 10%

Electrical Differential Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

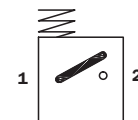
Technical data:

- Indicator type: Electrical differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

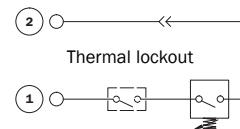
Electrical data:

- Resistive load: 0,2 A / 115 VDC
- Electrical connections: 10 - AMP Superseal series 1,5
- Switching type: Normally open contacts (N.C. on request)
- Thermal lockout: Normally open up to 30 °C (F option)
- Protection degree: IP 66 in according to EN 60529

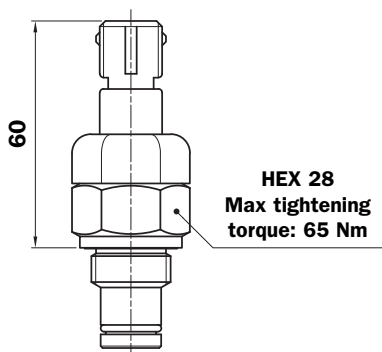
HYDRAULIC SYMBOL



ELECTRICAL SYMBOL



DEM



Ordering code: **DEM20xx20P01**

Pressure setting: 2 bar \pm 10%

Electrical Differential Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

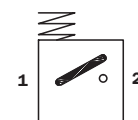
Technical data:

- Indicator type: Electrical differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

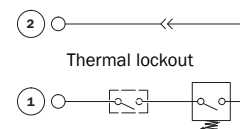
Electrical data:

- Resistive load: 0,2 A / 115 Vdc
- Electrical connections: 20 - AMP Time junior
- Switching type: Normally open contacts (N.C. on request)
- Thermal lockout: Normally open up to 30 °C (F option)
- Protection degree: IP 66 in according to EN 60529

HYDRAULIC SYMBOL

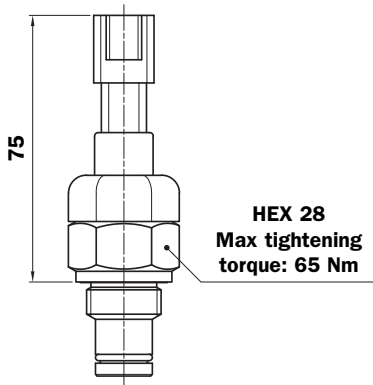


ELECTRICAL SYMBOL



DIFFERENTIAL INDICATORS (only for LMP 124)

DEM



Ordering code: **DEM20xx30P01**
 Pressure setting: 2 bar \pm 10%

Electrical Differential Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

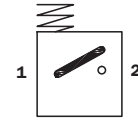
Technical data:

- Indicator type: Electrical differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

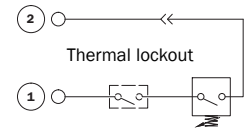
Electrical data:

- Resistive load: 0,2 A / 115 Vdc
- Electrical connections: 30 - Deutsch DT-04-2-P
- Switching type: Normally open contacts (N.C. on request)
- Thermal lockout: Normally open up to 30 °C (F option)
- Protection degree: IP 66 in according to EN 60529

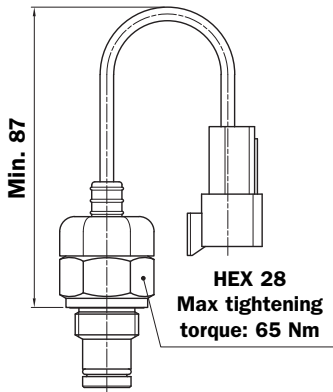
HYDRAULIC SYMBOL



ELECTRICAL SYMBOL



DEM



Ordering code: **DEM20xx35P01**
 Pressure setting: 2 bar \pm 10%

Electrical Differential Indicator

Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

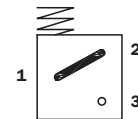
Technical data:

- Indicator type: Electrical differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

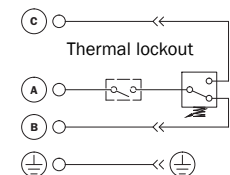
Electrical data:

- Resistive load: 0,2 A / 115 VDC
- Electrical connections: 35 - Deutsch DT-04-3-P
- Switching type: SPDT contact
- Thermal lockout: Normally open up to 30 °C (F option)
- Protection degree: IP 66 in according to EN 60529

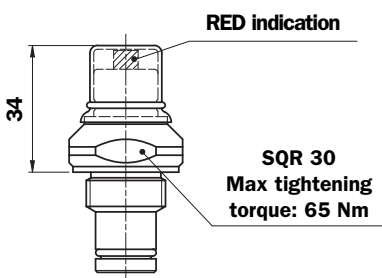
HYDRAULIC SYMBOL



ELECTRICAL SYMBOL



DVM



Ordering code: **DVM20xP01**
 Pressure setting: 2 bar \pm 10%

Visual Differential Indicator

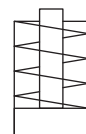
Materials:

- Body: Brass
- Internal parts: Brass - Nylon
- Seals: HNBR - FPM

Technical data:

- Indicator type: Visual differential indicator
- 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
HFA, HFB, HFC fluids in according to ISO 2943

HYDRAULIC SYMBOL





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