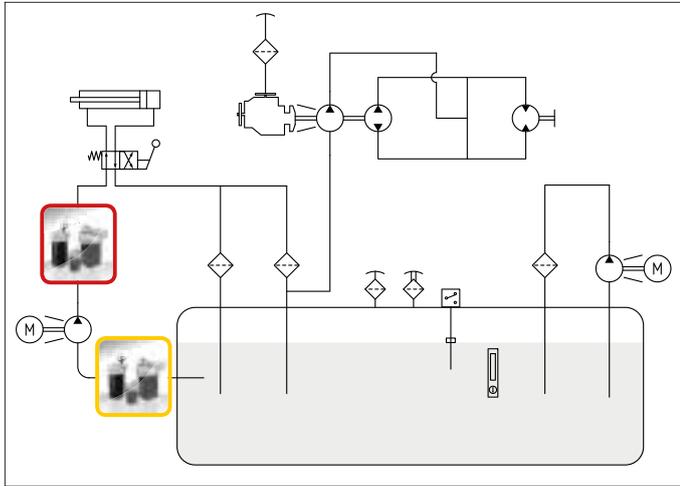


LFM



SUCTION OR LOW PRESSURE INLINE FILTER





LFM

0,7 MPa (7 bar)

Port sizes: 3/8" ÷ 1" 1/2
Flow rates: 4 ÷ 600 l/min

TECHNICAL DATA

Max. working pressure: 0,7 MPa (7bar)
Max. test pressure: 1,4 MPa (14 bar)
Bursting pressure: 2,1 MPa (21 bar)

Filter element collapse pressure:
 Δp 400 kPa (4 bar) - ISO 4572

Working temperature: -25 ÷ +110°C

MATERIALS

Head: aluminium
Bowl: cold formed steel
Seals: standard NBR
on request FKM

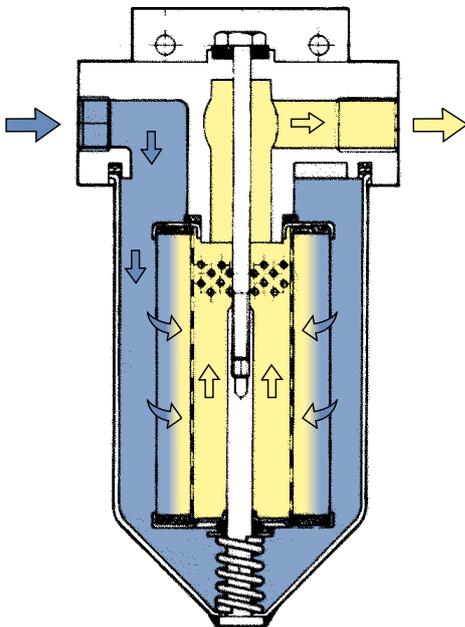
COMPATIBILITY (ISO 2943)

Full with fluids: HH-HL-HM-HV-HTG
(according to ISO 6743/4).
For fluids different than the above mentioned,
please contact our Sales Department.

All tests performed according
to the following standards:

ISO 2941: Element collapse resistance test
ISO 2942: Production integrity test
ISO 2943: Fluids compatibility
ISO 3723: End load test method
ISO 3724: Flow fatigue resistance method
ISO 3968: Pressure drop versus flow rate
ISO 16889: Multipass test.

For further information contact our Technical Dept.



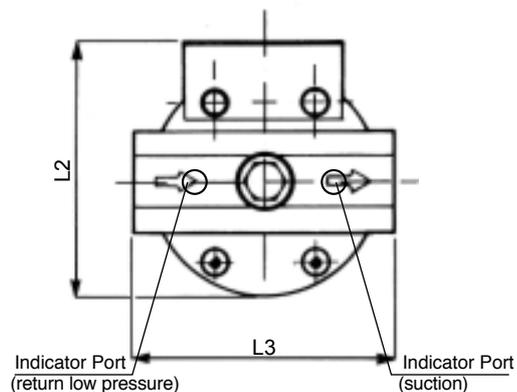
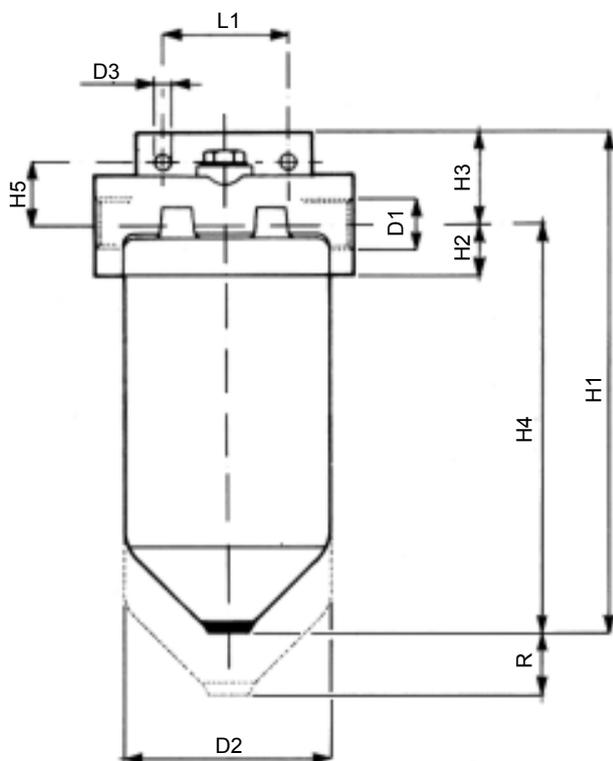
HOW TO ORDER THE COMPLETE FILTER

HOW TO ORDER THE FILTER ELEMENT

| | | | | | | | | |
|------------|---|-----|-----|-----|-----|-----|---|------------|
| LFM | Type | | | | | | Type | CLE |
| | | 010 | 050 | 070 | 120 | 180 | | |
| | Filter media | | | | | | Filter media | |
| | RD = 10 μ Stainless steel wire mesh | RD | RD | RD | RD | RD | RD = 10 μ Stainless steel wire mesh | |
| | MV = 25 μ Paper | MV | MV | MV | MV | MV | RV = 25 μ Paper | |
| | CD = 10 μ Paper | CD | CD | CD | CD | CD | CD = 10 μ Paper | |
| | CV = 25 μ Steel wire mesh | CV | CV | CV | CV | CV | CV = 25 μ Steel wire mesh | |
| | MS = 60 μ Steel wire mesh | MS | MS | MS | MS | MS | MS = 60 μ Steel wire mesh | |
| | MN = 125 μ Steel wire mesh | MN | MN | MN | MN | MN | MN = 125 μ Steel wire mesh | |
| | Seals | | | | | | Seals | |
| | 1 = NBR Nitrile | 1 | 1 | 1 | 1 | 1 | 1 = NBR Nitrile | |
| | 2 = FKM Fluoroelastomer | 2 | 2 | 2 | 2 | 2 | 2 = FKM Fluoroelastomer | |
| 0 | Bypass type | | | | | | | |
| | 0 = Without | 0 | 0 | 0 | 0 | 0 | | |
| | Ports | | | | | | | |
| | B = BSP | B | B | B | B | B | | |
| | N = NPT | N | N | N | N | N | | |
| | Port size | | | | | | | |
| | 2 = 3/8" | 2 | - | - | - | - | | |
| | 3 = 1/2" | 3 | - | - | - | - | | |
| | 4 = 3/4" | - | 4 | - | - | - | | |
| | 5 = 1" | - | - | 5 | - | - | | |
| | 6 = 1" 1/4 | - | - | - | 6 | - | | |
| | 7 = 1" 1/2 | - | - | - | - | 7 | | |
| | Indicators | | | | | | | |
| | 0E = nr. 2 ports 1/8", plugged | 0E | 0E | 0E | 0E | 0E | Return line | |
| | 33 = Pressure gauge | 33 | 33 | 33 | 33 | 33 | | |
| | P1 = Pressure switch | P1 | P1 | P1 | P1 | P1 | Suction line | |
| | 11 = Vacuum gauge | 11 | 11 | 11 | 11 | 11 | | |
| | 91 = Vacuum switch | 91 | 91 | 91 | 91 | 91 | | |
| XX | Accessories | | | | | | | |
| | XX = No accessory available | XX | XX | XX | XX | XX | | |

DIMENSIONAL LAYOUT

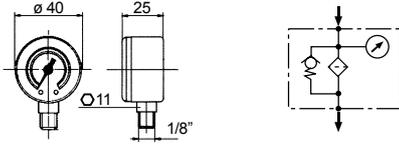
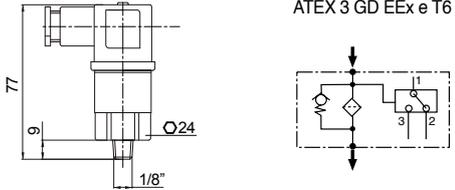
(mm)



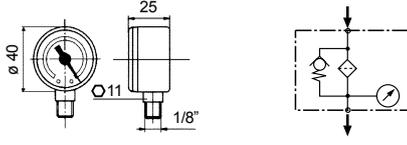
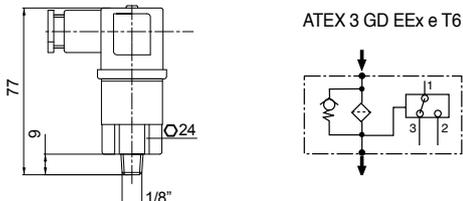
| Type | D1 | H1 | H2 | H3 | L1 | D2 | H4 | L2 | D3 | L3 | H5 | R | Weight Kg |
|-----------|--------|-----|----|----|-----|-----|-----|-----|------|-----|----|----|-----------|
| LFM 010.2 | 3/8" | 170 | 22 | 38 | 50 | 81 | 132 | 95 | 6,5 | 105 | 26 | 20 | 1,0 |
| LFM 010.3 | 1/2" | 170 | 22 | 38 | 50 | 81 | 132 | 95 | 6,5 | 105 | 26 | 20 | 1,0 |
| LFM 050 | 3/4" | 245 | 37 | 39 | 100 | 114 | 206 | 135 | 8,5 | 140 | 24 | 25 | 2,0 |
| LFM 070 | 1" | 285 | 37 | 39 | 100 | 114 | 246 | 135 | 8,5 | 140 | 24 | 25 | 2,5 |
| LFM 120 | 1" 1/4 | 290 | 40 | 50 | 150 | 155 | 240 | 185 | 10,5 | 178 | 28 | 25 | 6,0 |
| LFM 180 | 1" 1/2 | 345 | 40 | 50 | 150 | 155 | 295 | 185 | 10,5 | 178 | 28 | 25 | 6,5 |

CLOGGING INDICATORS

RETURN LINE

| NBR | FKM | Pressure gauge | |
|---|-----|----------------------------|--|
| 33 | - | Scale 0 ÷ 1,2 MPa (12 bar) |  |
| P1 | - | Setting 150 kPa (1,5 bar) |  <p>ATEX 3 GD EEx e T6</p> |
| SPDT, C.C. 30V: > max resistive or inductive load 3A - 1A respectively C.A. 125 or 250V: > max resistive or inductive load 3A - 0,5A respectively Protection IP65 - Connector DIN 43650 | | | |

SUCTION LINE

| NBR | FKM | Vacuum gauge | |
|---|-----|---------------------------|--|
| 11 | - | Scale 0 ÷ 100 kPa (1 bar) |  |
| 91 | - | Setting 20 kPa (0,2 bar) |  <p>ATEX 3 GD EEx e T6</p> |
| SPDT, C.C. 30V: > max resistive or inductive load 3A - 1A respectively C.A. 125 or 250V: > max resistive or inductive load 3A - 0,5A respectively Protection IP65 - Connector DIN 43650 | | | |

FLOW RATES

(l/min)

| Type | Filter Media | Δ p ... | | | |
|-----------|--------------|---------------------|---------------------|---------------------|---------------------|
| | | 5 kPa (0,05 bar) | 10 kPa (0,1 bar) | 20 kPa (0,2 bar) | 40 kPa (0,4 bar) |
| LFM 010.2 | RD | 6 | 11 | 25 | 47 |
| | MV | 7 | 13 | 30 | 58 |
| | CD | 4 | 10 | 23 | 45 |
| | CV | 6 | 13 | 27 | 55 |
| | MS | 8 | 14 | 32 | 62 |
| | MN | 8 | 19 | 38 | 72 |
| LFM 010.3 | RD | 9 | 16 | 34 | 61 |
| | MV | 11 | 18 | 40 | 75 |
| | CD | 8 | 15 | 29 | 58 |
| | CV | 10 | 17 | 36 | 72 |
| | MS | 11 | 19 | 45 | 79 |
| | MN | 12 | 27 | 53 | 95 |
| LFM 050 | RD | 19 | 46 | 92 | 152 |
| | MV | 21 | 58 | 102 | 177 |
| | CD | 17 | 36 | 72 | 132 |
| | CV | 19 | 45 | 91 | 148 |
| | MS | 23 | 61 | 110 | 185 |
| | MN | 34 | 72 | 132 | 197 |

| Type | Filter Media | Δ p ... | | | |
|---------|--------------|---------------------|---------------------|---------------------|---------------------|
| | | 5 kPa (0,05 bar) | 10 kPa (0,1 bar) | 20 kPa (0,2 bar) | 40 kPa (0,4 bar) |
| LFM 070 | RD | 32 | 70 | 135 | 228 |
| | MV | 35 | 73 | 158 | 349 |
| | CD | 27 | 53 | 110 | 185 |
| | CV | 30 | 68 | 132 | 220 |
| | MS | 41 | 76 | 167 | 265 |
| | MN | 45 | 98 | 197 | 303 |
| LFM 120 | RD | 75 | 122 | 295 | 440 |
| | MV | 91 | 175 | 337 | 535 |
| | CD | 45 | 102 | 227 | 386 |
| | CV | 61 | 117 | 273 | 428 |
| | MS | 106 | 201 | 367 | 556 |
| | MN | 136 | 254 | 401 | 590 |
| LFM 180 | RD | 158 | 285 | 405 | 572 |
| | MV | 207 | 330 | 510 | 638 |
| | CD | 87 | 170 | 314 | 503 |
| | CV | 140 | 276 | 462 | 628 |
| | MS | 235 | 386 | 579 | 749 |
| | MN | 329 | 454 | 617 | 783 |

The reference fluid has a kinematic viscosity of 30 cSt and a density of 0,86 Kg/dm³.
For different oil viscosity please contact our Sales Department for further information.

FILTER AREA

(cm²)

| Type | RD | MV | CD | CV | MS | MN |
|---------|------|------|------|------|------|------|
| CLE 010 | 866 | 866 | 1180 | 1180 | 472 | 472 |
| CLE 050 | 1067 | 1067 | 1830 | 1830 | 732 | 732 |
| CLE 070 | 1637 | 1637 | 2405 | 2405 | 1637 | 1637 |
| CLE 120 | 3288 | 3288 | 4440 | 4440 | 2055 | 1726 |
| CLE 180 | 3842 | 3842 | 6383 | 6383 | 2955 | 2482 |