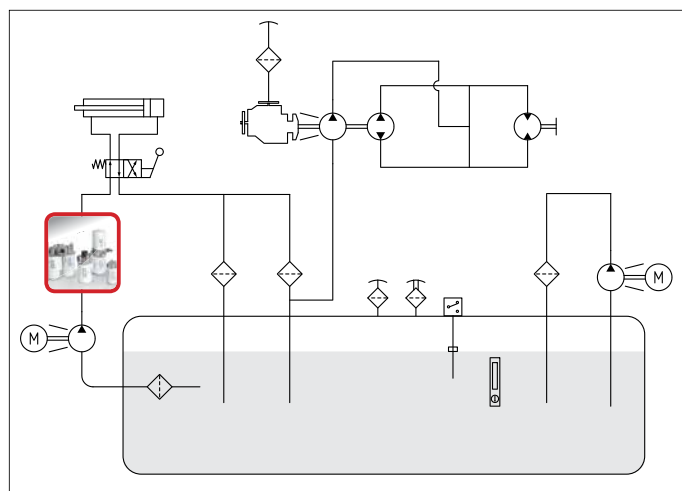


# AMD



SPIN-ON FILTER FOR LOW PRESSURE LINE





## AMD

### 1,2 MPa (12 bar)

Port sizes: 3/4" - 1" 1/2

Flow rates: 7 ÷ 375 l/min.

#### TECHNICAL DATA

Max. working pressure: 1,2 MPa (12 bar)

Max. test pressure: 1,5 MPa (15 bar)

Bursting pressure: 2,5 MPa (25 bar)

Fatigue test: 0 ÷ 1,2 MPa (12 bar) / 100.000 cycles

Bypass valve: 170 kPa (1,7 bar) ± 10%

Filter element collapse pressure:

standard:  $\Delta p$  400 kPa (4 bar) all types

Working temperature: -25 ÷ +110°C

#### MATERIALS

Head: aluminium

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

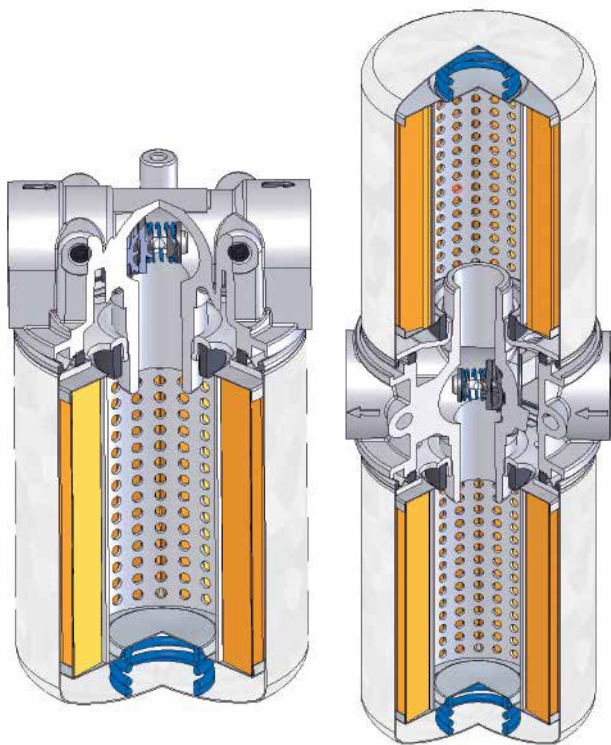
ISO 3723: End load test method

ISO 3724: Flow fatigue resistance method

ISO 3968: Pressure drop versus flow rate

ISO 16889: Multipass test.

For further information contact our Technical Dept.

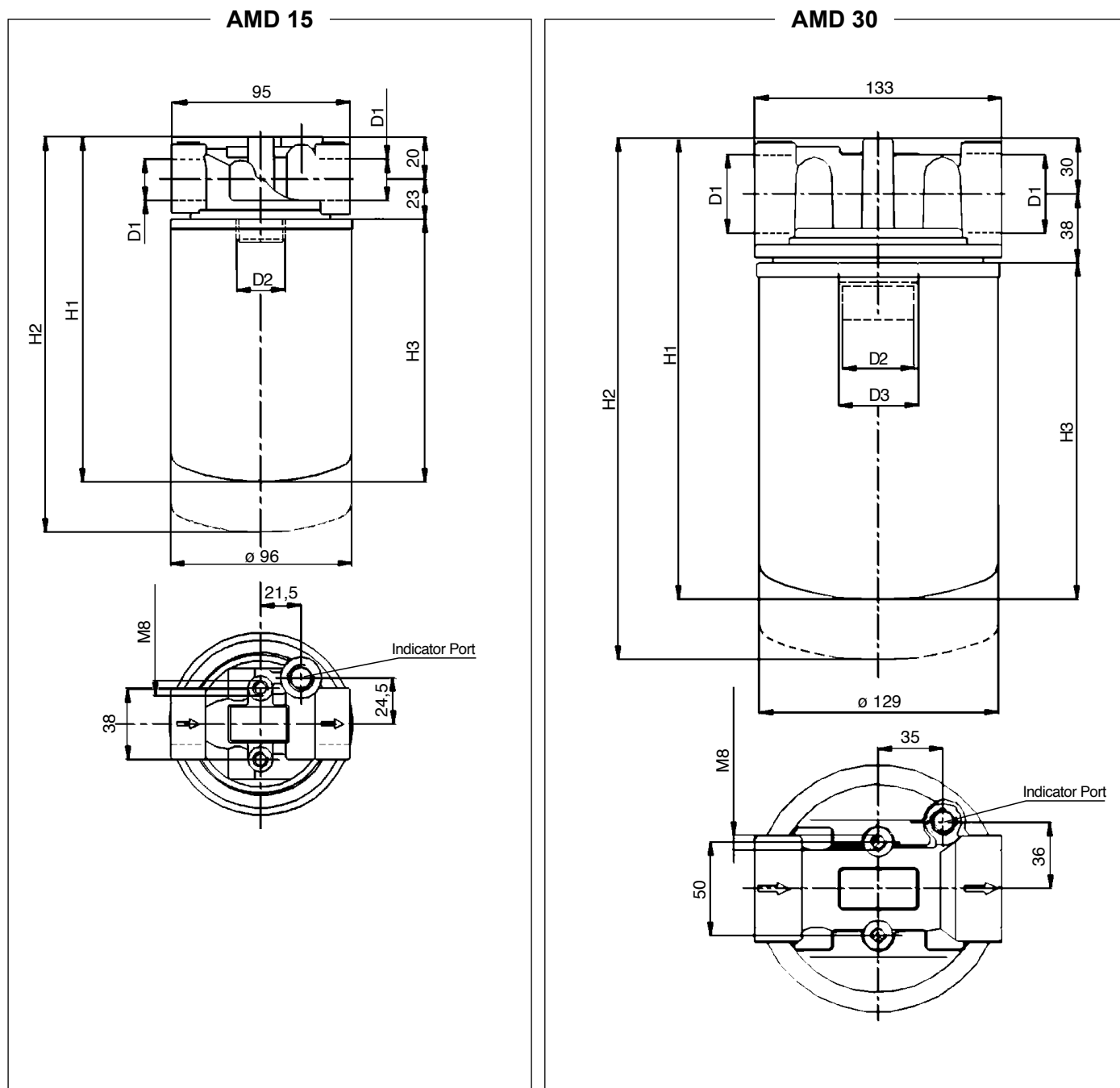


| Type                                                   |  |  |  |  |  |  |  |  |  | Type                                                 |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| AMD Complete Filter                                    |  |  |  |  |  |  |  |  |  | CCA                                                  |  |  |  |  |  |  |  |  |  |
| BMD Without can                                        |  |  |  |  |  |  |  |  |  | AMF 601 & 801 > 2xCCA301<br>AMF 602 & 802 > 2xCCA302 |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Filter media                                           |  |  |  |  |  |  |  |  |  | Filter media                                         |  |  |  |  |  |  |  |  |  |
| FT = 5 $\mu$ m <sub>(c)</sub>                          |  |  |  |  |  |  |  |  |  | FT = 5 $\mu$ m <sub>(c)</sub>                        |  |  |  |  |  |  |  |  |  |
| FC = 7 $\mu$ m <sub>(c)</sub>                          |  |  |  |  |  |  |  |  |  | FC = 7 $\mu$ m <sub>(c)</sub>                        |  |  |  |  |  |  |  |  |  |
| FD = 12 $\mu$ m <sub>(c)</sub>                         |  |  |  |  |  |  |  |  |  | FD = 12 $\mu$ m <sub>(c)</sub>                       |  |  |  |  |  |  |  |  |  |
| FV = 21 $\mu$ m <sub>(c)</sub>                         |  |  |  |  |  |  |  |  |  | FV = 21 $\mu$ m <sub>(c)</sub>                       |  |  |  |  |  |  |  |  |  |
| CD = 10 $\mu$ Paper                                    |  |  |  |  |  |  |  |  |  | CD = 10 $\mu$ Paper                                  |  |  |  |  |  |  |  |  |  |
| CV = 25 $\mu$                                          |  |  |  |  |  |  |  |  |  | CV = 25 $\mu$                                        |  |  |  |  |  |  |  |  |  |
| MS = 60 $\mu$ Steel wire mesh                          |  |  |  |  |  |  |  |  |  | MS = 60 $\mu$ Steel wire mesh                        |  |  |  |  |  |  |  |  |  |
| MN = 90 $\mu$                                          |  |  |  |  |  |  |  |  |  | MN = 90 $\mu$                                        |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Seals                                                  |  |  |  |  |  |  |  |  |  | Seals                                                |  |  |  |  |  |  |  |  |  |
| 1 = NBR Nitrile                                        |  |  |  |  |  |  |  |  |  | 1 = NBR Nitrile                                      |  |  |  |  |  |  |  |  |  |
| 2 = FKM Fluoroelastomer                                |  |  |  |  |  |  |  |  |  | 2 = FKM Fluoroelastomer                              |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Bypass type                                            |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| S = Without                                            |  |  |  |  |  |  |  |  |  | S S S S S S S S                                      |  |  |  |  |  |  |  |  |  |
| B = Bypass 170 kPa (1,7 bar)                           |  |  |  |  |  |  |  |  |  | B B B B B B B B                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Ports                                                  |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| B = BSP                                                |  |  |  |  |  |  |  |  |  | B B B B B B B B                                      |  |  |  |  |  |  |  |  |  |
| F = SAE flange 3000 psi                                |  |  |  |  |  |  |  |  |  | - - - - - - F F                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Port size                                              |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| 4 = 3/4"                                               |  |  |  |  |  |  |  |  |  | 4 4 - - - - -                                        |  |  |  |  |  |  |  |  |  |
| 6 = 1" 1/4                                             |  |  |  |  |  |  |  |  |  | - - 6 6 - - -                                        |  |  |  |  |  |  |  |  |  |
| 7 = 1" 1/2"                                            |  |  |  |  |  |  |  |  |  | - - - - 7 7 7 7                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Indicators                                             |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| 0U = Port, plugged                                     |  |  |  |  |  |  |  |  |  | 0U 0U 0U 0U - - -                                    |  |  |  |  |  |  |  |  |  |
| U0 = Visual differential 130 kPa (1,3 bar)             |  |  |  |  |  |  |  |  |  | U0 U0 U0 U0 - - -                                    |  |  |  |  |  |  |  |  |  |
| N0 = Electrical differential 130 kPa (1,3 bar)         |  |  |  |  |  |  |  |  |  | N0 N0 N0 N0 - - -                                    |  |  |  |  |  |  |  |  |  |
| 03 = Port, plugged                                     |  |  |  |  |  |  |  |  |  | - - - - 03 03 03 03                                  |  |  |  |  |  |  |  |  |  |
| 5B = Visual differential 130 kPa (1,3 bar)             |  |  |  |  |  |  |  |  |  | - - - - 5B 5B 5B 5B                                  |  |  |  |  |  |  |  |  |  |
| 6B = Electrical differential 130 kPa (1,3 bar)         |  |  |  |  |  |  |  |  |  | - - - - 6B 6B 6B 6B                                  |  |  |  |  |  |  |  |  |  |
| 7B = 6B with LED                                       |  |  |  |  |  |  |  |  |  | - - - - 7B 7B 7B 7B                                  |  |  |  |  |  |  |  |  |  |
| T0 = Electrical 130 kPa (1,3 bar) with thermostat 30°C |  |  |  |  |  |  |  |  |  | - - - - T0 T0 T0 T0                                  |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  | Indicator 70 on request only                         |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
|                                                        |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| Accessories                                            |  |  |  |  |  |  |  |  |  |                                                      |  |  |  |  |  |  |  |  |  |
| XX = No accessory available                            |  |  |  |  |  |  |  |  |  | XX XX XX XX XX XX XX XX                              |  |  |  |  |  |  |  |  |  |

When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please see page 188-189).

**DIMENSIONAL LAYOUT**

(mm)



| Type        | D1         | D2            | D3         | D4 | H1  | H2  | H3  | Weight Kg |
|-------------|------------|---------------|------------|----|-----|-----|-----|-----------|
| AMD 151...B | 3/4" BSP   | 3/4" BSP      | -          | M8 | 188 | 208 | 145 | 0,8       |
| AMD 152...B | 3/4" BSP   | 3/4" BSP      | -          | M8 | 234 | 254 | 191 | 0,9       |
| AMD 301...B | 1" 1/4 BSP | 1" 1/2 16-UNF | 1" 1/4 BSP | M8 | 248 | 278 | 181 | 1,8       |
| AMD 302...B | 1" 1/4 BSP | 1" 1/2 16-UNF | 1" 1/4 BSP | M8 | 293 | 323 | 226 | 1,9       |

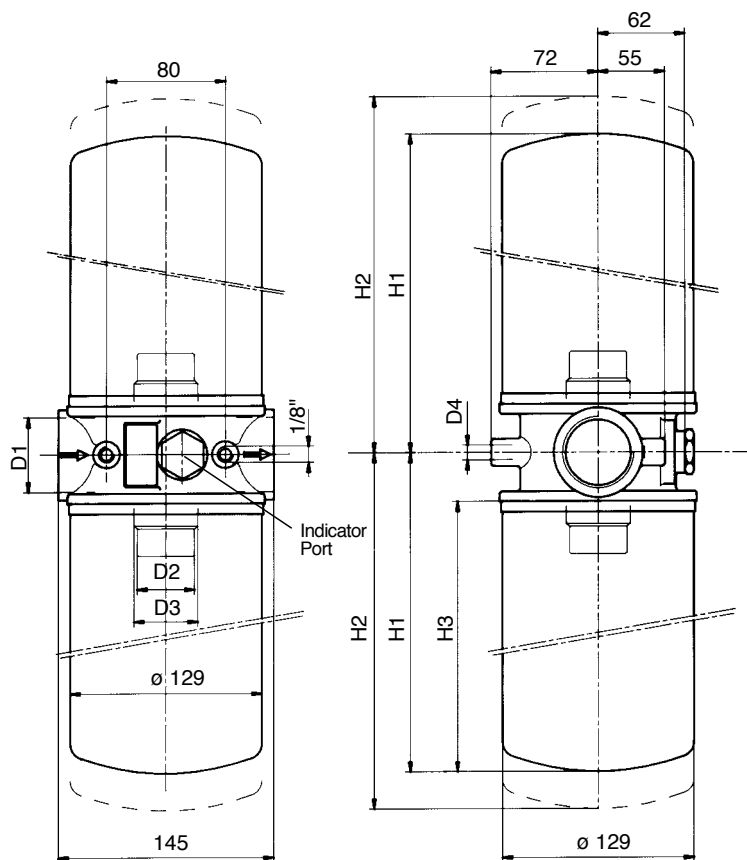
# **DIMENSIONAL LAYOUT**

(mm)

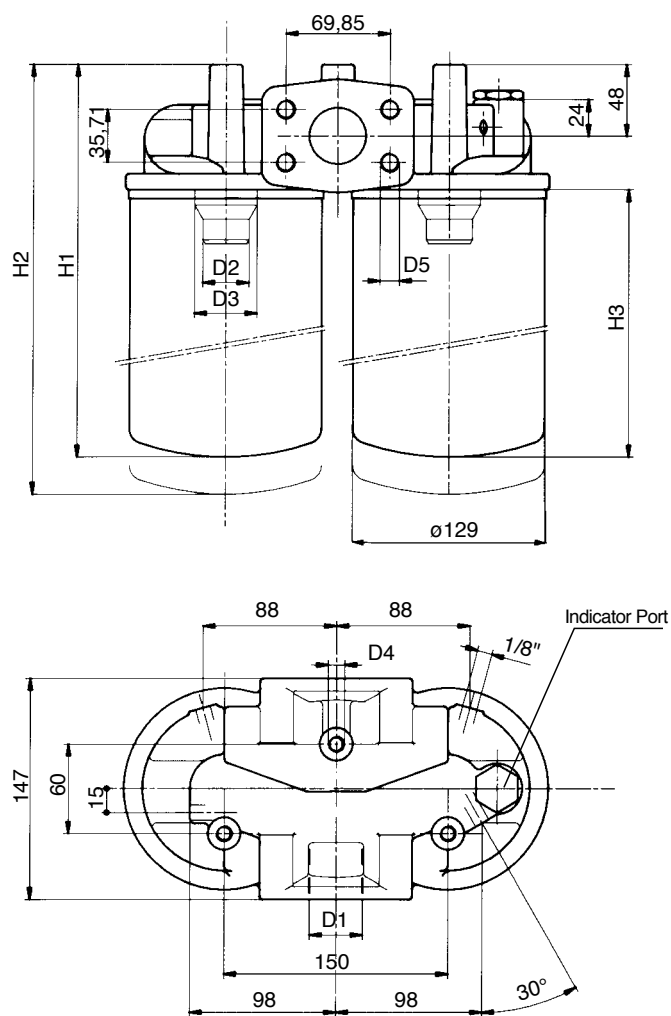
AMD

Pressure Filters

## AMD 60

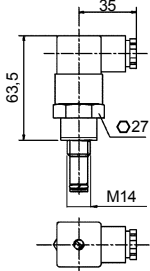
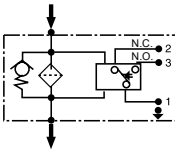
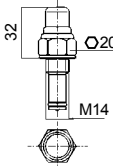
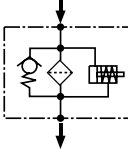
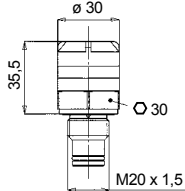
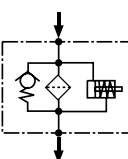
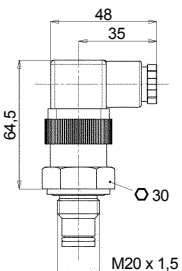
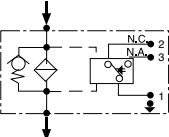
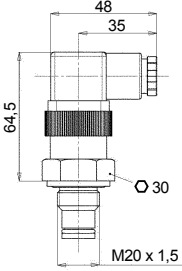
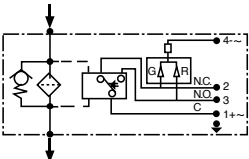
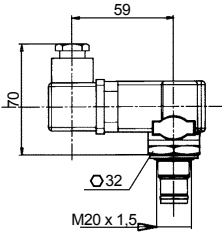
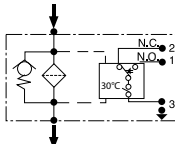
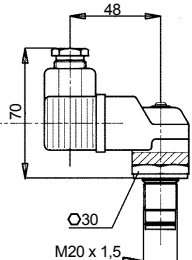
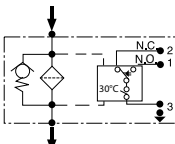


## AMD 80



| Type        | D1              | D2             | D3         | D4  | D5  | H1  | H2  | H3  | Weight Kg |
|-------------|-----------------|----------------|------------|-----|-----|-----|-----|-----|-----------|
| AMD 601...B | 1" 1/2 BSP      | 1" 1/2 16 - UN | 1" 1/4 BSP | M10 | -   | 216 | 246 | 181 | 3,4       |
| AMD 602...B | 1" 1/2 BSP      | 1" 1/2 16 - UN | 1" 1/4 BSP | M10 | -   | 261 | 291 | 226 | 3,8       |
| AMD 801...B | 1" 1/2 BSP      | 1" 1/2 16-UN   | 1" 1/4 BSP | M10 | -   | 269 | 299 | 181 | 4,7       |
| AMD 802...B | 1" 1/2 BSP      | 1" 1/2 16-UN   | 1" 1/4 BSP | M10 | -   | 314 | 344 | 226 | 5,1       |
| AMD 801...F | 1" 1/2 SAE 3000 | 1" 1/2 16-UN   | 1" 1/4 BSP | M10 | M12 | 269 | 299 | 181 | 4,7       |
| AMD 802...F | 1" 1/2 SAE 3000 | 1" 1/2 16-UN   | 1" 1/4 BSP | M10 | M12 | 314 | 344 | 226 | 5,1       |

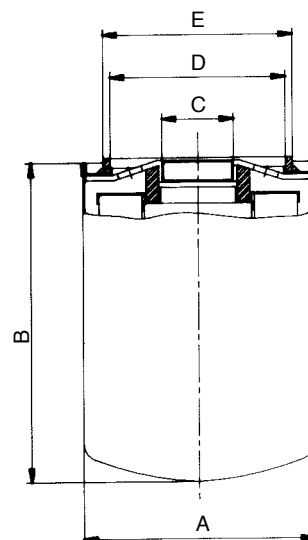
## CLOGGING INDICATORS

| NBR                                                                                                                                                                                               | FKM | Differential ELECTRICAL indicator                                      |                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N0                                                                                                                                                                                                | S0  | Setting 130 kPa (1,3 bar)                                              |       |
| SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively<br>C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650 |     |                                                                        |                                                                                                                                                                            |
| NBR                                                                                                                                                                                               | FKM | Differential VISUAL indicator                                          |                                                                                                                                                                            |
| U0                                                                                                                                                                                                | W0  | Setting 130 kPa (1,3 bar)                                              |      |
| NBR                                                                                                                                                                                               | FKM | Differential VISUAL indicator                                          | Recommended tightening torque 90 Nm                                                                                                                                        |
| 5B                                                                                                                                                                                                | AB  | Setting 130 kPa (1,3 bar)                                              |       |
| NBR                                                                                                                                                                                               | FKM | Differential ELECTRICAL indicator                                      | Recommended tightening torque 90 Nm                                                                                                                                        |
| 6B                                                                                                                                                                                                | CB  | Setting 130 kPa (1,3 bar)                                              |    |
| SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively<br>C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650 |     |                                                                        |                                                                                                                                                                            |
| NBR                                                                                                                                                                                               | FKM | Differential ELECTRICAL indicator with LED (24V) for visual indication | Recommended tightening torque 90 Nm                                                                                                                                        |
| 7B                                                                                                                                                                                                | EB  | Setting 130 kPa (1,3 bar)                                              |   |
| SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively<br>C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650 |     |                                                                        |                                                                                                                                                                            |
| NBR                                                                                                                                                                                               | FKM | Differential ELECTRICAL indicator with THERMOSTAT 30°C                 | Recommended tightening torque 90 Nm                                                                                                                                        |
| T0                                                                                                                                                                                                | DB  | Setting 130 kPa (1,3 bar)                                              |   |
| SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively<br>C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650 |     |                                                                        |                                                                                                                                                                            |
| NBR                                                                                                                                                                                               | FKM | Differential VISUAL ELECTRICAL indicator                               | Recommended tightening torque 90 Nm                                                                                                                                        |
| 70                                                                                                                                                                                                | E0  | Setting 130 kPa (1,3 bar)                                              |   |
| SPDT differential switch. C.C. 14 - 30 V: > max resistive or inductive load 4 - 3 A respectively<br>C.A. 125-250 V: > max resistive or inductive load 1 A - Protection IP65 - Connector DIN 43650 |     |                                                                        |                                                                                                                                                                            |

## SPIN-ON ELEMENTS DIMENSIONAL LAYOUT

(mm)

| Type        | A   | B   | C          | D  | E   | Weight Kg |
|-------------|-----|-----|------------|----|-----|-----------|
| CCA 151 ... | 95  | 145 | 3/4" BSP   | 62 | 72  | 0,6       |
| CCA 152 ... | 95  | 191 | 3/4" BSP   | 62 | 72  | 0,7       |
| CCA 301 ... | 129 | 181 | 1" 1/4 BSP | 98 | 108 | 1,15      |
| CCA 302 ... | 129 | 226 | 1" 1/4 BSP | 98 | 108 | 1,4       |



## FLOW RATES

(l/min)

| Type    | Media |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|
|         | FT    | FC  | FD  | FV  | CD  | CV  | MS  | MN  |
| AMD 151 | 30    | 35  | 48  | 65  | 68  | 73  | 80  | 80  |
| AMD 152 | 34    | 41  | 55  | 69  | 74  | 80  | 90  | 90  |
| AMD 301 | 87    | 102 | 118 | 125 | 130 | 170 | 190 | 190 |
| AMD 302 | 92    | 110 | 125 | 135 | 150 | 188 | 205 | 205 |
| AMD 601 | 190   | 242 | 270 | 280 | 290 | 325 | 360 | 360 |
| AMD 602 | 205   | 255 | 283 | 292 | 305 | 340 | 375 | 375 |
| AMD 801 | 190   | 242 | 270 | 280 | 290 | 325 | 360 | 360 |
| AMD 802 | 205   | 255 | 283 | 292 | 305 | 340 | 375 | 375 |

The reference fluid has a kinematic viscosity of 30 cSt and a density of 0,86 Kg/dm<sup>3</sup>.  
For different oil viscosity please contact our Sales Department for further information.

## DIRT HOLDING CAPACITY

(g) ISO MTD  $\Delta p = 400$  kPa (4 bar)

| Type       | Filter Media |      |      |      |
|------------|--------------|------|------|------|
|            | FT           | FC   | FD   | FV   |
| CCA 151... | 12,3         | 17,2 | 19,6 | 30,0 |
| CCA 152... | 20,8         | 29,2 | 33,3 | 50,4 |
| CCA 301... | 25,5         | 35,7 | 40,9 | 62,3 |
| CCA 302... | 33,8         | 47,3 | 53,8 | 82,5 |

## FILTER AREA

(cm<sup>2</sup>)

| Filter Media |      |      |      |
|--------------|------|------|------|
| MS           | MN   | CD   | CV   |
| 980          | 980  | 3305 | 3305 |
| 1390         | 1390 | 4745 | 4745 |
| 1940         | 1940 | 5560 | 5560 |
| 2570         | 2570 | 7360 | 7360 |

Technical data subject to variations without prior notice. AMD 07/2013