

## Air Filter

Series **AF10 to 60**

## Features

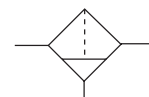
- Part of new modular FRL range.
- Replacement elements available.
- Integral water separator.
- Mounting bracket available.
- Port size M5 - 1".
- Autodrain available.
- New super efficient 5µm poly-element.



## Standard specifications

| Model                         | AF10                          | AF20 | AF30 | AF40 | AF40-06 | AF50  | AF60  |
|-------------------------------|-------------------------------|------|------|------|---------|-------|-------|
| Fluid                         | Air                           |      |      |      |         |       |       |
| Maximum operating pressure    | 1.0MPa                        |      |      |      |         |       |       |
| Rated Flow                    | 200                           | 1500 | 3500 | 5500 | 6000    | 12000 | 13000 |
| Ambient and fluid temperature | -5 to 60°C (with no freezing) |      |      |      |         |       |       |
| Nominal filtration rating     | 5µm                           |      |      |      |         |       |       |
| Bowl material                 | Polycarbonate                 |      |      |      |         |       |       |
| Bowl guard                    | Standard                      |      |      |      |         |       |       |

## Symbol



## How to order

AF 30 - F 03 BD

Body size

10 20 30 40 50 60

Thread type

| Nil* | Metric thread (M5) |
|------|--------------------|
| F    | G                  |

\*Only 10 series

Port size

| Symbol | Port size | Body size |    |    |    |    |    |
|--------|-----------|-----------|----|----|----|----|----|
|        |           | 10        | 20 | 30 | 40 | 50 | 60 |
| M5     | M5        | ●         | —  | —  | —  | —  | —  |
| 01     | 1/8       | —         | ●  | —  | —  | —  | —  |
| 02     | 1/4       | —         | ●  | ●  | —  | —  | —  |
| 03     | 3/8       | —         | —  | ●  | ●  | —  | —  |
| 04     | 1/2       | —         | —  | —  | ●  | —  | —  |
| 06     | 3/4       | —         | —  | —  | ●  | ●  | —  |
| 10     | 1         | —         | —  | —  | —  | ●  | ●  |

Accessories

| Symbol    | Description                  | Applicable model |
|-----------|------------------------------|------------------|
| Nil       | —                            | —                |
| B Note 1) | With bracket                 | AF20 to 60       |
| C         | Float type auto drain (N.C.) | AF10 to 60       |
| D         | Float type auto drain (N.O.) | AF30 to 60       |

Note 1) Bracket is not assembled and is supplied loose at the time of shipment.

\* When more than one specification is required, indicate in ascending alphanumeric order.

◎: Combination available

○: Varies depending on the model

—: Combination not available

## Accessory/Optional specification combinations

| Accessory/Optional specifications |                              | Combination | Symbol | Accessory |   |   | Applicable filter |      |            |
|-----------------------------------|------------------------------|-------------|--------|-----------|---|---|-------------------|------|------------|
|                                   |                              |             |        | B         | C | D | AF10              | AF20 | AF30 to 60 |
| Accessories                       | With bracket                 |             | B      |           | ◎ | ○ |                   | ◎    | ◎          |
|                                   | Float type auto drain (N.C.) |             | C      | ○         |   |   | ◎                 | ◎    | ◎          |
|                                   | Float type auto drain (N.O.) |             | D      | ◎         |   |   |                   |      | ◎          |

NOTE:) Contact SMC for other possible options, like metal bowls.

## Accessory part no.

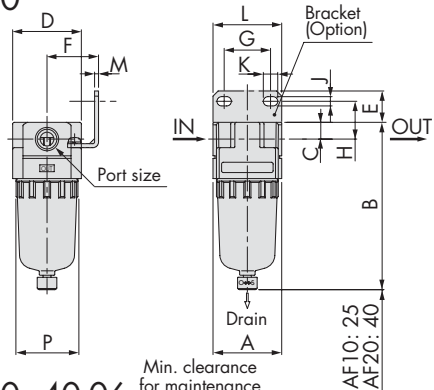
| Applicable model                            |      | AF10 | AF20        | AF30        | AF40        | AF40-06     | AF50        | AF60        |
|---------------------------------------------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|
| Accessory                                   |      |      |             |             |             |             |             |             |
| Bracket assembly Note 1)                    |      | —    | AF20P-050AS | AF30P-050AS | AF40P-050AS | AF40P-070AS | AF50P-050AS | AF50P-050AS |
| Float type Note 2)<br>auto drain Bowl Ass'y | N.O. | —    | —           | AD38        | AD48        | AD48        | AD48        | AD48        |
|                                             | N.C. | AD17 | AD27        | AD37        | AD47        | AD47        | AD47        | AD47        |

Note 1) Assembly includes a bracket and 2 mounting screws.

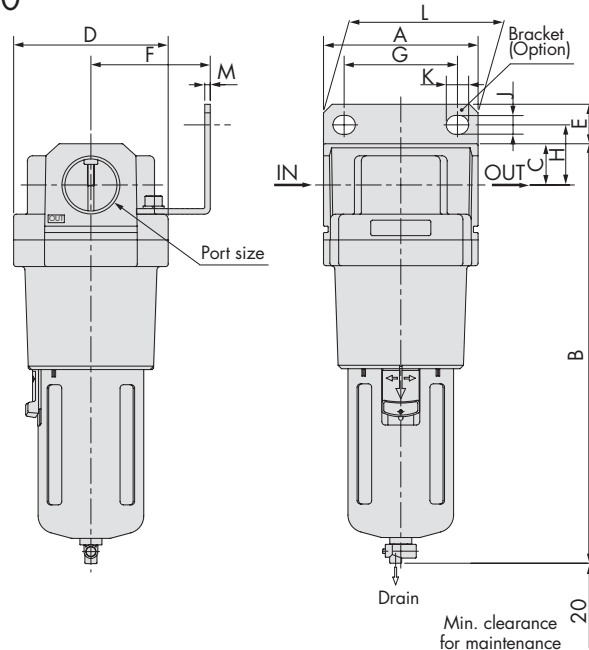
Note 2) Minimum operating pressure: N.O. type-0.1MPa; N.C. type-0.1MPa (AD17/27) and 0.15MPa (AD37/47).

## Dimensions

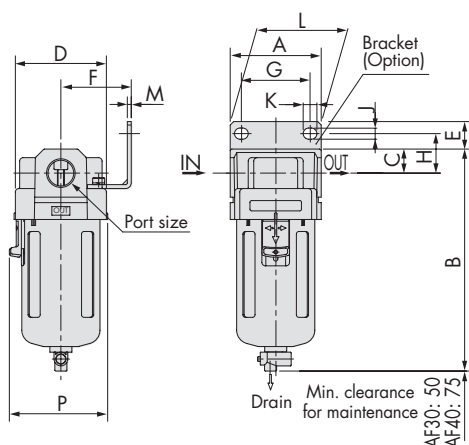
### AF10, 20



### AF50, 60



### AF30, 40, 40-06



| Applicable model        | AF10, AF20                 | AF30, AF40, AF40-06, AF50, AF60 |
|-------------------------|----------------------------|---------------------------------|
| Optional specifications | With auto drain (N.C.)<br> | With auto drain (N.O./N.C.)<br> |

| Model   | Port size     | Standard specification |     |    |    |    | Accessory specification |    |    |    |     |      |    |     |                 |  |
|---------|---------------|------------------------|-----|----|----|----|-------------------------|----|----|----|-----|------|----|-----|-----------------|--|
|         |               |                        |     |    |    |    | Bracket mounting size   |    |    |    |     |      |    |     |                 |  |
|         |               | A                      | B   | C  | D  | P  | E                       | F  | G  | H  | J   | K    | L  | M   | With auto drain |  |
| AF10    | M5            | 25                     | 67  | 7  | 25 | 28 | —                       | —  | —  | —  | —   | —    | —  | —   | 85              |  |
| AF20    | 1/8, 1/4      | 40                     | 97  | 10 | 40 | —  | 18                      | 30 | 27 | 22 | 5.4 | 8.4  | 40 | 2.3 | 115             |  |
| AF30    | 1/4, 3/8      | 53                     | 129 | 14 | 53 | 57 | 16                      | 41 | 40 | 23 | 6.5 | 8    | 53 | 2.3 | 170             |  |
| AF40    | 1/4, 3/8, 1/2 | 70                     | 165 | 18 | 70 | 73 | 17                      | 50 | 54 | 26 | 8.5 | 10.5 | 70 | 2.3 | 204             |  |
| AF40-06 | 3/4           | 75                     | 169 | 20 | 70 | 73 | 14                      | 50 | 54 | 25 | 8.5 | 10.5 | 70 | 2.3 | 208             |  |
| AF50    | 3/4, 1        | 90                     | 245 | 24 | 90 | —  | 23                      | 70 | 66 | 35 | 11  | 13   | 90 | 3.2 | 284             |  |
| AF60    | 1             | 95                     | 258 | 24 | 95 | —  | 23                      | 70 | 66 | 35 | 11  | 13   | 90 | 3.2 | 297             |  |

## Air filter replacement parts

| No. | Description          | Material         | Part no.                          |            |                             |                             |                             |                             |                             |
|-----|----------------------|------------------|-----------------------------------|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|     |                      |                  | AF10                              | AF20       | AF30                        | AF40                        | AF40-06                     | AF50                        | AF60                        |
| 2   | Filter element       | Non-woven fabric | AF10P-060S                        | AF20P-060S | AF30P-060S                  | AF40P-060S                  | AF40P-060S                  | AF50P-060S                  | AF60P-060S                  |
| 3   | Baffle               | PBT              | AF10P-040S <small>Note 1)</small> | AF20P-040S | AF30P-040S                  | AF40P-040S                  | AF40P-040S                  | AF50P-040S                  | AF60P-040S                  |
| 4   | Bowl O-ring          | NBR              | C1SFP-260S                        | C2SFP-260S | C3SFP-260S                  | C4SFP-260S                  | C4SFP-260S                  | C4SFP-260S                  | C4SFP-260S                  |
| 5   | Manual bowl assembly | PC               | C1SF                              | C2SF       | C3SF <small>Note 2)</small> | C4SF <small>Note 2)</small> | C4SF <small>Note 2)</small> | C4SF <small>Note 2)</small> | C4SF <small>Note 2)</small> |

Note 1) The material of the baffle for AF10 (AF10P-040S) only is POM.

Note 2) Bowl assembly for AF30 to 60 models comes with a bowl guard (steel band material).



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