

Active carbon filtering systems are the most efficient in the industry as they eliminate all traces of oils, solvents and hydrocarbons, and remove unpleasant odours from the air.

The operating principle is based on active carbon's ability to absorb the majority of the polluting particles in the air thanks to the presence of tiny passages inside the carbon granules.

The incoming air must be filtered (5 µm) and purified (0.01 µm) to increase the duration and efficiency of the cartridge.

The cartridge must be replaced at set intervals since there is no difference in load loss between an efficient cartridge and a saturated one.

**N.B. To maintain the same performance and duration specified on the data sheet, the load loss (ΔP) must not exceed 75 mbar.**



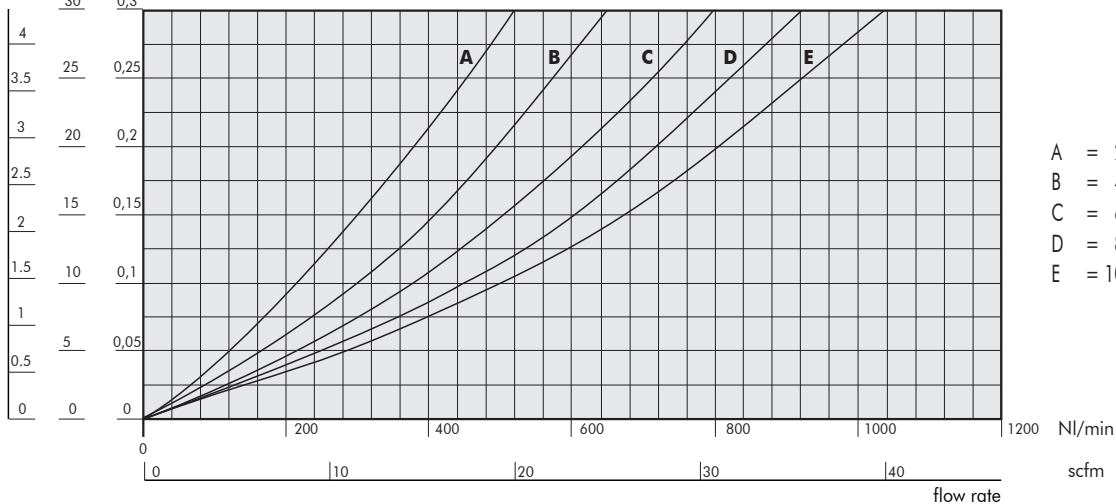
| TECHNICAL DATA                                | AC 100   | AC 100 | AC 200  | AC 200 | AC 200  | AC 300 | AC 300 | AC 300 |
|---|--|--------|---------|--------|---------|--------|--------|--------|
| Threaded port                                 | G 1/4  | G 3/8  | G 1/4   | G 3/8  | G 1/2   | G 1/2  | G 3/4  | G 1"   |
| Residual oil at 20°C *                        | mg/m <sup>3</sup>  |        | 0,003   |        |         |        |        |        |
| Duration of cartridge *                       | Hours  |        | 4000    |        |         |        |        |        |
| Max. inlet pressure                           | MPa  |        | 1.5     |        | 1.3     |        |        |        |
|   | Bar  |        | 15      |        | 13      |        |        |        |
|   | psi  |        | 217     |        | 188     |        |        |        |
| Fluid   | 0,01µm filtered and deputed air  |        |         |        |         |        |        |        |
| Max temperature at: 1 MPa; 10 bar; 145 psi    | °C   |        | 50      |        |         |        |        |        |
|   | °F   |        | 122     |        |         |        |        |        |
| Weight  | Kg   |        | 0.4     |        | 0.9     |        | 1.4    |        |
| Wall fixing screws                            | M4 x 50  |        | M5 x 60 |        | M5 x 70 |        |        |        |
| Mounting position                             | In any position  |        |         |        |         |        |        |        |
| Notes on use                                  | Upstream it's necessary to mount a coalescence filter deparator of 0,01mm. |        |         |        |         |        |        |        |
| * if the load loss of 75 mbar is not exceeded |  |        |         |        |         |        |        |        |

## FLOW CHARTS

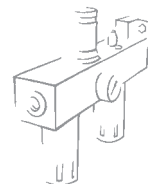
### AC 100 1/4 - 3/8

$$\Delta P = (P_m - P_v)$$

Psi    KPa    bar  
30    0,3



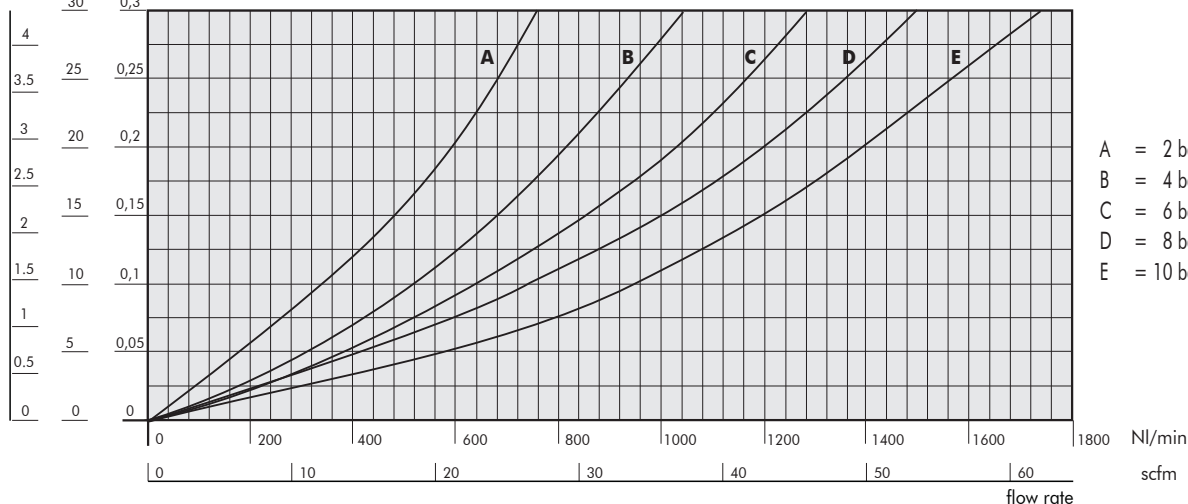
- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi



### AC 200 1/4 - 3/8 - 1/2

$$\Delta P = (P_m - P_v)$$

Psi KPa bar  
30 0,3

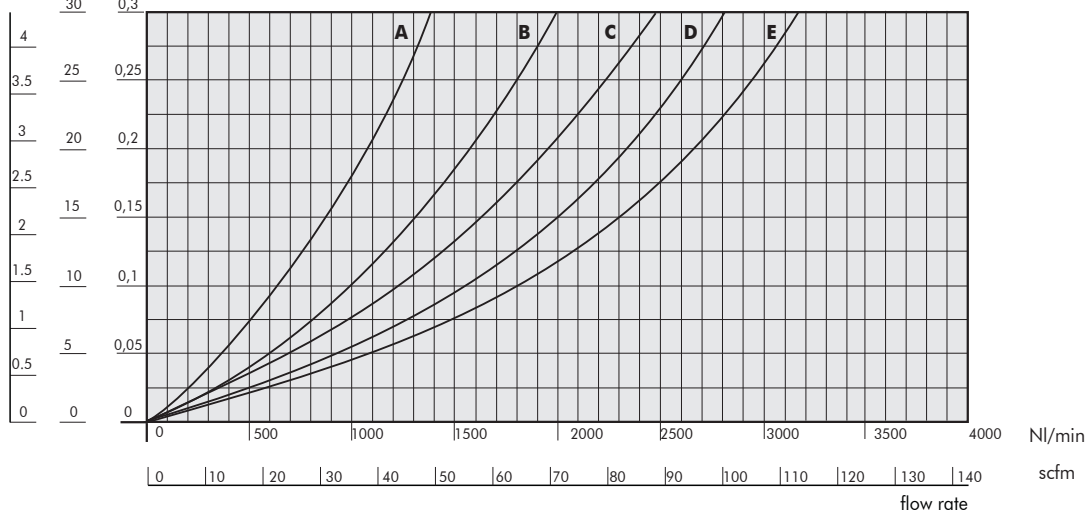


- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### AC 300 1/2 - 3/4 - 1

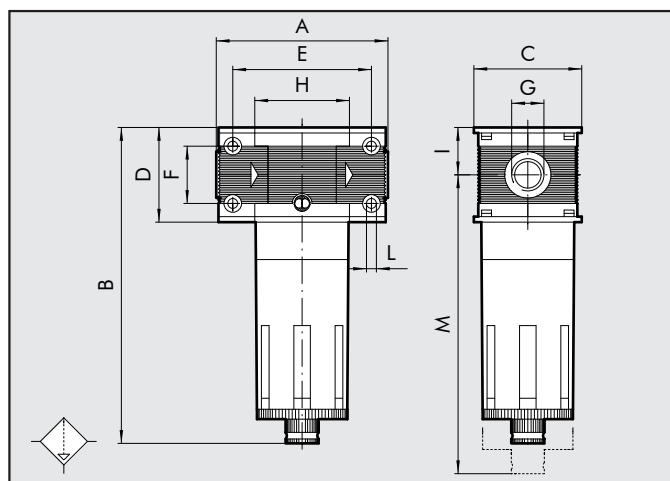
$$\Delta P = (P_m - P_v)$$

Psi KPa bar  
30 0,3



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### DIMENSIONS



|        | AC 100  | AC 100 | AC 200 | AC 200  | AC 200 | AC 300 | AC 300  | AC 300 |
|--------|---------|--------|--------|---------|--------|--------|---------|--------|
| Th. p. | G 1/4   | G 3/8  | G 1/4  | G 3/8   | G 1/2  | G 1/2  | G 3/4   | G 1"   |
| A      | 78      |        |        | 93.5    |        | 110    |         | 112    |
| B      | 144     |        |        | 175     |        |        | 195     |        |
| C      | 50      |        |        | 63      |        |        | 72      |        |
| D      | 43      |        |        | 55      |        |        | 65      |        |
| E      | 63      |        |        | 78.5    |        |        | 92      |        |
| F      | 26      |        |        | 36      |        |        | 42      |        |
| G      | G 1/4   | G 3/8  | G 1/4  | G 3/8   | G 1/2  | G 1/2  | G 3/4   | G 1"   |
| H      | 43      |        |        | 55.5    |        |        | 65      |        |
| I      | 21.5    |        |        | 27.5    |        |        | 32.5    |        |
| L      | M4 hole |        |        | M5 hole |        |        | M5 hole |        |
| M      | 137     |        |        | 196     |        |        | 215     |        |
|        |         |        |        |         |        |        |         |        |
|        |         |        |        |         |        |        |         |        |
|        |         |        |        |         |        |        |         |        |
|        |         |        |        |         |        |        |         |        |

# Skillair® 400 ACTIVE CARBON FILTER

Active carbon filtering systems are the most efficient in the industry as they eliminate all traces of oils, solvents and hydrocarbons, and remove unpleasant odours from the air.

The operating principle is based on active carbon's ability to absorb the majority of the polluting particles in the air thanks to the presence of tiny passages inside the carbon granules.

The incoming air must be filtered (5 µm) and purified (0.01 µm) to increase the duration and efficiency of the cartridge.

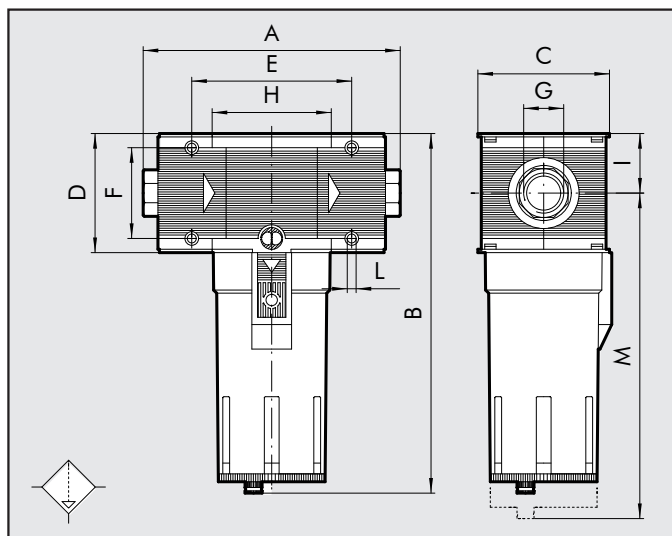
The cartridge must be replaced at set intervals since there is no difference in load loss between an efficient cartridge and a saturated one.

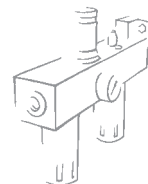
**N.B. To maintain the same performance and duration specified on the data sheet, the load loss ( $\Delta P$ ) must not exceed 75 mbar.**



| TECHNICAL DATA                                | AC 400  |         |         |      |
|---|---|---------|---------|------|
|   | G 1"  | G 1"1/4 | G 1"1/2 | G 2" |
| Threaded port                                 | G 1"  | G 1"1/4 | G 1"1/2 | G 2" |
| Residual oil at 20°C *                        | mg/m <sup>3</sup> 0,003   |         |         |      |
| Duration of cartridge *                       | Hours 1000  |         |         |      |
| Max. inlet pressure                           | MPa 1.3   |         |         |      |
|   | Bar 13  |         |         |      |
|   | psi 188   |         |         |      |
| Fluid   | 0,01µm filtered and deperated air   |         |         |      |
| Max temperature at: 1 MPa; 10 bar; 145 psi    | °C 50   |         |         |      |
|   | °F 122  |         |         |      |
| Weight  | Kg 4.2  |         |         | 5    |
| Wall fixing screws                            | M6x110  |         |         |      |
| Mounting position                             | In any position   |         |         |      |
| Notes on use                                  | Upstream it's necessary to mount a coalescence filter deperator of 0,01mm.<br>Series 400 end plates come with a patented system with a rotary sliding end joint to allow the unit to be adapted to the pipe cutting distance. |         |         |      |
| * if the load loss of 75 mbar is not exceeded |   |         |         |      |

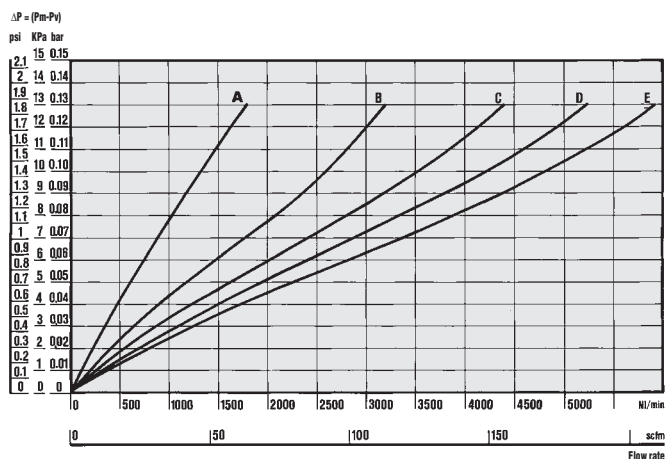
| DIMENSIONS    | AC 400  |         |         |         |
|---------------|---------|---------|---------|---------|
|               | G 1"    | G 1"1/4 | G 1"1/2 | G 2"    |
| Threaded port | G 1"    | G 1"1/4 | G 1"1/2 | G 2"    |
| A             | 225÷255 |         |         | 283÷313 |
| B             | 320     |         |         |         |
| C             | 116     |         |         |         |
| D             | 105     |         |         |         |
| E             | 141.4   |         |         |         |
| F             | 80      |         |         |         |
| G             | G 1"    | G 1"1/4 | G 1"1/2 | G 2"    |
| H             | 105.4   |         |         |         |
| I             | 52.5    |         |         |         |
| L             | M6 hole |         |         |         |
| M             | 378     |         |         |         |





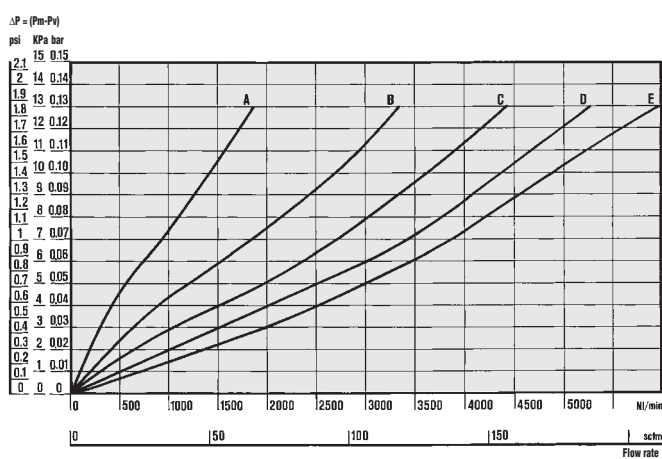
## FLOW CHARTS

### AC 400 1"



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### AC 400 2"



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

## KEY TO CODES

| AC                | 100  | 1/4           | RMSA | RMSA: Manual/semi-auto drain. |
|-------------------|------|---------------|------|-------------------------------|
| ELEMENT           | SIZE | THREADED PORT | TYPE |                               |
| AC: ACTIVE CARBON | 100  | 1/4           | RMSA |                               |
|                   | 200  | 3/8           |      |                               |
|                   | 300  | 1/2           |      |                               |
|                   | 400  | 3/4           |      |                               |
|                   |      | 1             |      |                               |
|                   |      | 1 1/4         |      |                               |
|                   |      | 1 1/2         |      |                               |
|                   |      | 2             |      |                               |

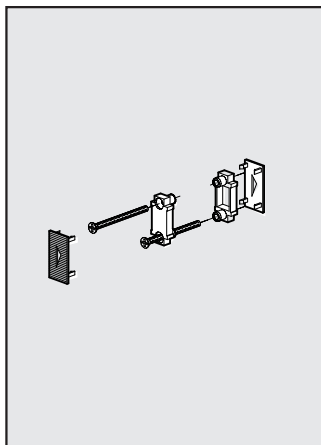
## ORDERING CODES

| Code                              | Description                        | Code                              | Description                        |
|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| SKILLAIR 100 ACTIVE CARBON FILTER |                                    | SKILLAIR 300 ACTIVE CARBON FILTER |                                    |
| 3288003A                          | FIL AC 100 RMSA WITHOUT END PLATES | 4488003A                          | FIL AC 300 RMSA WITHOUT END PLATES |
| 3288003                           | FIL AC 100 1/4 RMSA                | 4488003                           | FIL AC 300 1/2 RMSA                |
| 3388003                           | AC 100 3/8 RMSA                    | 4588003                           | FIL AC 300 3/4 RMSA                |
|                                   |                                    | 4688003                           | FIL AC 300 1 RMSA                  |
| SKILLAIR 200 ACTIVE CARBON FILTER |                                    | SKILLAIR 400 ACTIVE CARBON FILTER |                                    |
| 3488003A                          | FIL AC 200 RMSA WITHOUT END PLATES | 6188003A                          | FIL AC 400 RMSA WITHOUT END PLATES |
| 3488003                           | FIL AC 200 1/4 RMSA                | 6188003                           | FIL AC 400 1 RMSA                  |
| 3588003                           | FIL AC 200 3/8 RMSA                | 6288003                           | FIL AC 400 1 1/4 RMSA              |
| 3688003                           | FIL AC 200 1/2 RMSA                | 6388003                           | FIL AC 400 1 1/2 RMSA              |
|                                   |                                    | 6488003                           | FIL AC 400 2 RMSA                  |

# ACCESSORIES

## KIT DE LIAISON

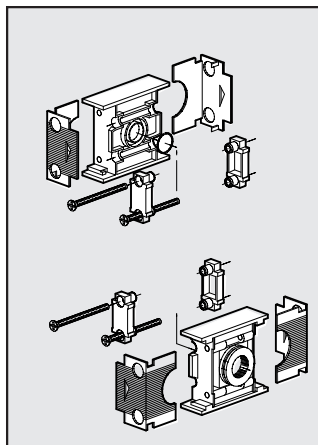
Code Désignation



- 9230301 KIT DE LIAISON TAILLE 100
- 9330301 KIT DE LIAISON TAILLE 200
- 9430301 KIT DE LIAISON TAILLE 300
- 9630301 KIT DE LIAISON TAILLE 400

## JEUX DE BRIDES ENTREE-SORTIE

Code Désignation

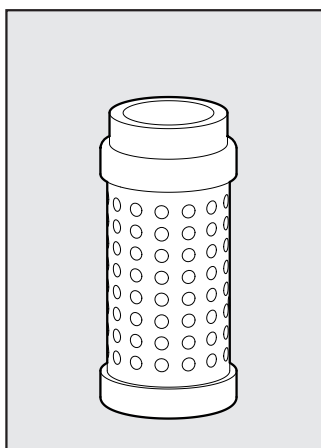


- 9230401 KIT ENTREE-SORTIE T 100 1/4
- 9330501 KIT ENTREE-SORTIE T 100 3/8
- 9330601 KIT ENTREE-SORTIE T 200 1/4
- 9330701 KIT ENTREE-SORTIE T 200 3/8
- 9330801 KIT ENTREE-SORTIE T 200 1/2
- 9430701 KIT ENTREE-SORTIE T 300 1/2
- 9530901 KIT ENTREE-SORTIE T 300 3/4
- 9531001 KIT ENTREE-SORTIE T 300 1"
- 9631001 KIT ENTREE-SORTIE T 400 1"
- 9631101 KIT ENTREE-SORTIE T 400 1 1/4
- 9631201 KIT ENTREE-SORTIE T 400 1 1/2
- 9631301 KIT ENTREE-SORTIE T 400 2"

# PIECES DE RECHANGE

## CARTRIDGE AC

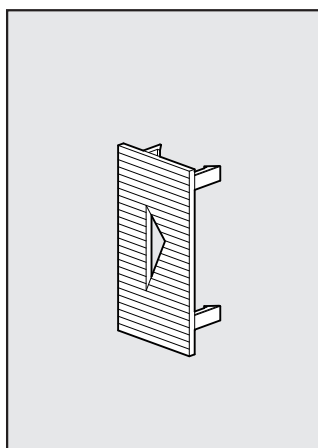
Code Désignation



- 9251713 SPARES CARTRIDGE 100 AC
- 9351713 SPARES CARTRIDGE 200 AC
- 9451713 SPARES CARTRIDGE 300 AC
- 9651712 SPARES CARTRIDGE 400 AC

## CACHE INTERMEDIAIRE

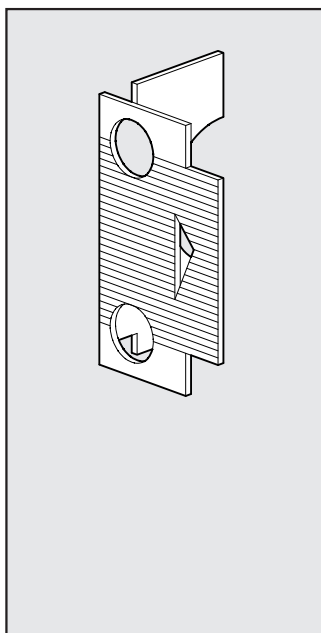
Code Désignation



- 9152107 CACHE INTERMEDIAIRE 100
- 9152114 CACHE INTERMEDIAIRE 200
- 9152108 CACHE INTERMEDIAIRE 300
- 9152117 CACHE INTERMEDIAIRE 400

## CACHE SORTIE-ENTREE

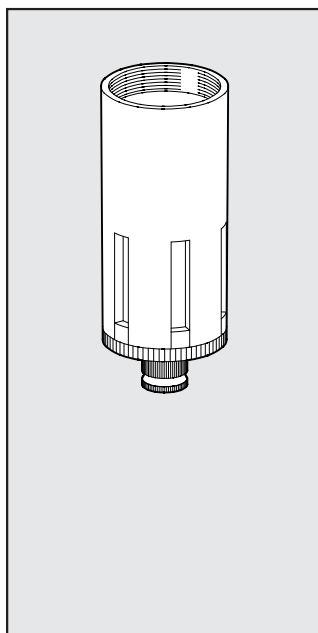
Code Désignation



- 9152103 CACHE SORTIE 100
- 9152105 CACHE ENTREE 100
- 9152115 CACHE SORTIE 200
- 9152116 CACHE ENTREE 200
- 9152104 CACHE SORTIE 300
- 9152106 CACHE ENTREE 300
- 9152118 CACHE SORTIE 400
- 9152119 CACHE ENTREE 400

## CUVES POUR FILTRE

Code Désignation



- 9253301 SPARES TF 100 RMSA
- 9353301 SPARES TF 200 RMSA
- 9453301 SPARES TF 300 RMSA
- 9653301 SPARES TF 400 RMSA