

# Braukmann

## D06F

### Pressure Reducing Valve

With Balanced Seat and Set Point Scale

#### Application

According EN 806-2 pressure reducing valves of this type protect household water installations against excessive pressure from the supply. They can also be used for industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurization damage is avoided and water consumption is reduced.

The set pressure is also maintained constant, even when there is wide inlet pressure fluctuation.

Reduction of the operating pressure and maintaining it at a constant level minimizes flow noise in the installation.

#### Approvals

- DVGW
- WRAS (up to 23 °C)

#### Special Features

- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Up to size 1 1/4" approved by LGA for low noise, Group 1 without limitations
- The valve insert is of high-quality synthetic material and can be fully exchanged
- The outlet pressure is set by turning the adjustment knob
- The set pressure is directly indicated on the set point scale
- The adjustment spring is not in contact with the drinking water
- Integral fine filter
- Also available without fittings
- Conforms to BSEN 1567
- All materials are UBA conform
- ACS certified
- 5-year warranty

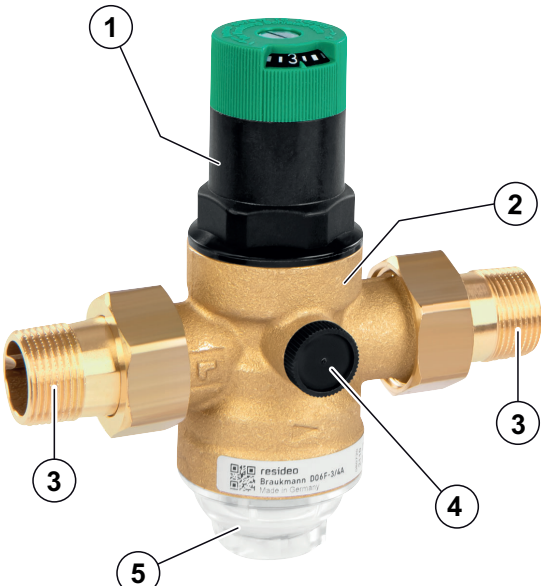


#### Technical Data

| Media                                                         |                |
|---------------------------------------------------------------|----------------|
| Medium:                                                       | Drinking water |
| Connections/Sizes                                             |                |
| Connection size:                                              | 1/2" - 2"      |
| Nominal sizes:                                                | DN 15 - DN 50  |
| Pressure values                                               |                |
| Max. inlet pressure with clear filter bowl:                   | 16 bar         |
| Max. inlet pressure with brass filter bowl:                   | 25 bar         |
| Outlet pressure:                                              | 1.5 - 6 bar    |
| Preset outlet pressure:                                       | 3 bar          |
| Min. pressure drop:                                           | 1 bar          |
| Operating temperatures                                        |                |
| Max. operating temperature medium (10 bar/brass filter bowl): | 70 °C          |
| Max. operating temperature medium accord. to EN 1567:         | 30 °C          |

Note: Use the SM06T brass filter bowl, if the valve can be exposed to UV radiation or solvent vapors.

## Construction

| Overview                                                                          | Components                                              | Materials                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|
|  | 1 Spring bonnet with adjustment knob and setting scale  | High-quality synthetic material                 |
|                                                                                   | 2 Housing with pressure gauge connections on both sides | Dezincification-resistant brass                 |
|                                                                                   | 3 Threaded male connections (options A & B)             | Brass                                           |
|                                                                                   | 4 Pressure gauge connection                             | -                                               |
|                                                                                   | 5 Filter bowl                                           | Clear synthetic or brass                        |
| <b>Not depicted components:</b>                                                   |                                                         |                                                 |
| Adjustment spring                                                                 |                                                         | Spring steel                                    |
| Valve insert complete with diaphragm and valve seat                               |                                                         | High-quality synthetic material, EPDM diaphragm |
| Fine filter with 0.16 mm mesh                                                     |                                                         | Stainless steel                                 |
| Pressure gauge (see accessories)                                                  |                                                         | High-quality synthetic material                 |
| Seals                                                                             |                                                         | EPDM                                            |

## Method of Operation

Spring loaded pressure reducing valves operate by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because water is drawn, the then greater force of the spring causes the valve to open. The outlet pressure then increases until the forces between the diaphragm and the spring are equal again.

The inlet pressure has no influence in either opening or closing of the valve. Because of this, inlet pressure fluctuation does not influence the outlet pressure, thus providing inlet pressure balancing.

## Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

| Parameter                       | Value                    |
|---------------------------------|--------------------------|
| Environment:                    | clean, dry and dust free |
| Min. ambient temperature:       | 5 °C                     |
| Max. ambient temperature:       | 55 °C                    |
| Min. ambient relative humidity: | 25 % *                   |
| Max. ambient relative humidity: | 85 % *                   |

\*non condensing

## Installation Guidelines

### Setup requirements

- Horizontal and vertical installation position possible
- Install shut-off valves before and after D06F for maintenance
- Inlet pressure to outlet pressure setting should not exceed value more than 3:1
- The device downstream should be protected by means of a safety valve (installed downstream of the pressure reducing valve). In these cases the delivery pressure of the pressure reducing valve shall be set to at least 20 % below the response pressure of the pressure relief-valve according to EN 806-2
- The installation location should be protected against frost and be easily accessible
  - Pressure gauge can be read off easily
  - With clear filter bowl, degree of contamination can be easily seen
  - Simplified maintenance and cleaning
- Install downstream of the filter or strainer
  - This position ensures optimum protection for the pressure reducing valve against dirt
- Provide a straight section of pipework of at least five times the nominal valve size after the pressure reducing valve (in accordance with EN 806-2)
- Requires regular maintenance in accordance with EN 806-5

## Installation Example

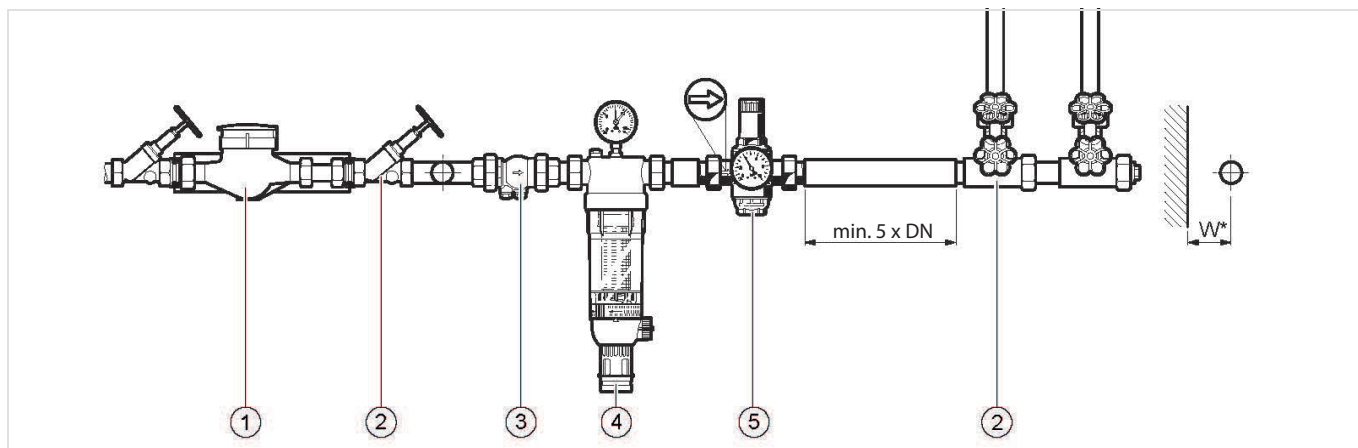


Fig. 1 Standard installation example for the pressure reducing valve

- 1 Water meter
- 2 Shut-off valve
- 3 Check valve
- 4 Filtering unit
- 5 Pressure reducing valve

|                         |             |             |           |               |               |           |
|-------------------------|-------------|-------------|-----------|---------------|---------------|-----------|
| <b>Connection size:</b> | <b>1/2"</b> | <b>3/4"</b> | <b>1"</b> | <b>1 1/4"</b> | <b>1 1/2"</b> | <b>2"</b> |
| Distance in mm (W*):    | 55          | 60          | 60        | 60            | 70            | 70        |

\* Required installation distances between the centerline of the pipework and the surrounding in dependency of the connection size.

## Technical Characteristics

### kvs-Values

|                                             |                 |              |              |               |               |              |
|---------------------------------------------|-----------------|--------------|--------------|---------------|---------------|--------------|
| <b>Nominal size diameter:</b>               | <b>DN 15</b>    | <b>DN 20</b> | <b>DN 25</b> | <b>DN 32</b>  | <b>DN 40</b>  | <b>DN 50</b> |
| <b>Connection size:</b>                     | <b>1/2"</b>     | <b>3/4"</b>  | <b>1"</b>    | <b>1 1/4"</b> | <b>1 1/2"</b> | <b>2"</b>    |
| k <sub>vs</sub> -value (m <sup>3</sup> /h): | 2.4             | 3.1          | 5.8          | 5.9           | 12.6          | 12.0         |
| IfBt designation:                           | P-IX 1582/I     | P-IX 1582/I  | P-IX 1582/I  | P-IX 1582/I   | - *           | - *          |
| DVGW registration number:                   | DW-6330 AT 2314 |              |              |               |               |              |

\* Compulsory testing in sizes R 1/2" to R 1 1/4"

## Pressure drop characteristics

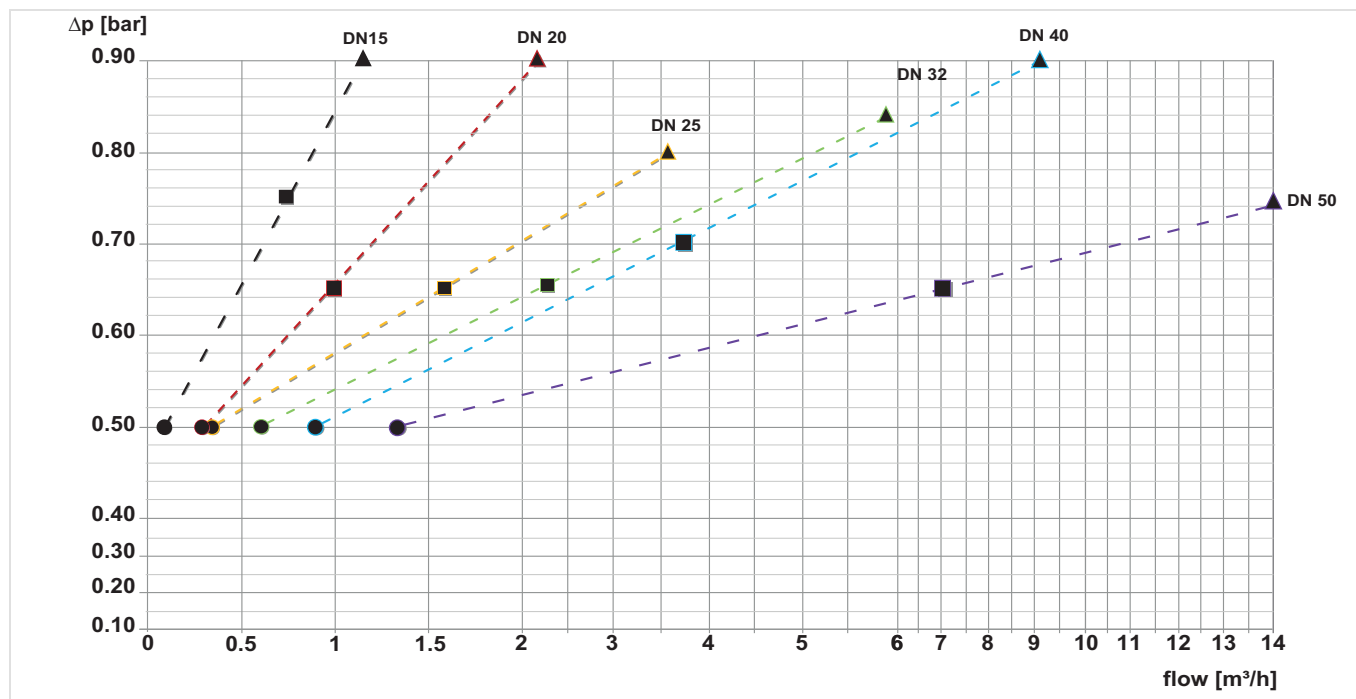


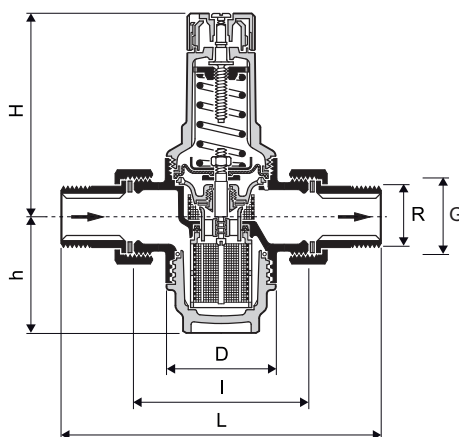
Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

Pressure setting: P1: 8 bar, P2: 3 bar

| Nominal size diameter               | DN 15                  | DN 20                  | DN 25                  | DN 32                  | DN 40                  | DN 50                 |
|-------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| ● $\triangleq$ 10% of standard flow | 0.13 m <sup>3</sup> /h | 0.32 m <sup>3</sup> /h | 0.36 m <sup>3</sup> /h | 0.58 m <sup>3</sup> /h | 0.91 m <sup>3</sup> /h | 1.4 m <sup>3</sup> /h |
| ■ $\triangleq$ 1m/s flow rate       | 0.75 m <sup>3</sup> /h | 1.00 m <sup>3</sup> /h | 1.6 m <sup>3</sup> /h  | 2.3 m <sup>3</sup> /h  | 3.75 m <sup>3</sup> /h | 7 m <sup>3</sup> /h   |
| ▲ $\triangleq$ 2m/s flow rate = QN  | 1.27 m <sup>3</sup> /h | 2.27 m <sup>3</sup> /h | 3.6 m <sup>3</sup> /h  | 5.8 m <sup>3</sup> /h  | 9.1 m <sup>3</sup> /h  | 14 m <sup>3</sup> /h  |
| Flow rate 4m/s flow velocity        | 2.54 m <sup>3</sup> /h | 4.54 m <sup>3</sup> /h | 7.2 m <sup>3</sup> /h  | 11.6 m <sup>3</sup> /h | 18.2 m <sup>3</sup> /h | 28 m <sup>3</sup> /h  |

## Dimensions

### Overview



| Parameter              |    | Values            |                   |                    |                    |                    |                    |
|------------------------|----|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal size diameter: | DN | DN 15             | DN 20             | DN 25              | DN 32              | DN 40              | DN 50              |
| Connection size:       | R  | R <sup>1/2"</sup> | R <sup>3/4"</sup> | R1"                | R1 <sup>1/4"</sup> | R1 <sup>1/2"</sup> | R2"                |
|                        | G  | G <sup>3/4"</sup> | G1"               | G1 <sup>1/4"</sup> | G1 <sup>1/2"</sup> | G2"                | G2 <sup>1/2"</sup> |
| Weight:                | kg | 0.8               | 1.0               | 1.4                | 2.0                | 3.3                | 4.5                |
| Dimensions:            | L  | 140               | 160               | 180                | 200                | 225                | 255                |
|                        | I  | 80                | 90                | 100                | 105                | 130                | 140                |
|                        | H  | 89                | 89                | 111                | 111                | 173                | 173                |
|                        | h  | 58                | 58                | 64                 | 64                 | 126                | 126                |
|                        | D  | 54                | 54                | 61                 | 61                 | 82                 | 82                 |

Note: All dimensions in mm unless stated otherwise.

## Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

### Options

| Connection size                                                   | Nominal size diameter | Filter bowl | Max. inlet pressure | Max. medium temperature | Item No.    |
|-------------------------------------------------------------------|-----------------------|-------------|---------------------|-------------------------|-------------|
| <b>Connection set for in- and outlet, with clear filter bowl</b>  |                       |             |                     |                         |             |
| 1/2"                                                              | DN 15                 | Clear       | 16 bar              | 30 °C                   | D06F-1/2A   |
| 3/4"                                                              | DN 20                 | Clear       | 16 bar              | 30 °C                   | D06F-3/4A   |
| 1"                                                                | DN 25                 | Clear       | 16 bar              | 30 °C                   | D06F-1A     |
| 1 1/4"                                                            | DN 32                 | Clear       | 16 bar              | 30 °C                   | D06F-1 1/4A |
| 1 1/2"                                                            | DN 40                 | Clear       | 16 bar              | 30 °C                   | D06F-1 1/2A |
| 2"                                                                | DN 50                 | Clear       | 16 bar              | 30 °C                   | D06F-2A     |
| <b>Connection set for in- and outlet, with brass filter bowl</b>  |                       |             |                     |                         |             |
| 1/2"                                                              | DN 15                 | Brass       | 25 bar              | 70 °C                   | D06F-1/2B   |
| 3/4"                                                              | DN 20                 | Brass       | 25 bar              | 70 °C                   | D06F-3/4B   |
| 1"                                                                | DN 25                 | Brass       | 25 bar              | 70 °C                   | D06F-1B     |
| 1 1/4"                                                            | DN 32                 | Brass       | 25 bar              | 70 °C                   | D06F-1 1/4B |
| 1 1/2"                                                            | DN 40                 | Brass       | 25 bar              | 70 °C                   | D06F-1 1/2B |
| 2"                                                                | DN 50                 | Brass       | 25 bar              | 70 °C                   | D06F-2B     |
| <b>External thread housing connection, with clear filter bowl</b> |                       |             |                     |                         |             |
| 1/2"                                                              | DN 15                 | Clear       | 16 bar              | 30 °C                   | D06F-1/2E   |
| 3/4"                                                              | DN 20                 | Clear       | 16 bar              | 30 °C                   | D06F-3/4E   |
| 1"                                                                | DN 25                 | Clear       | 16 bar              | 30 °C                   | D06F-1E     |
| 1 1/4"                                                            | DN 32                 | Clear       | 16 bar              | 30 °C                   | D06F-1 1/4E |
| 1 1/2"                                                            | DN 40                 | Clear       | 16 bar              | 30 °C                   | D06F-1 1/2E |
| 2"                                                                | DN 50                 | Clear       | 16 bar              | 30 °C                   | D06F-2E     |

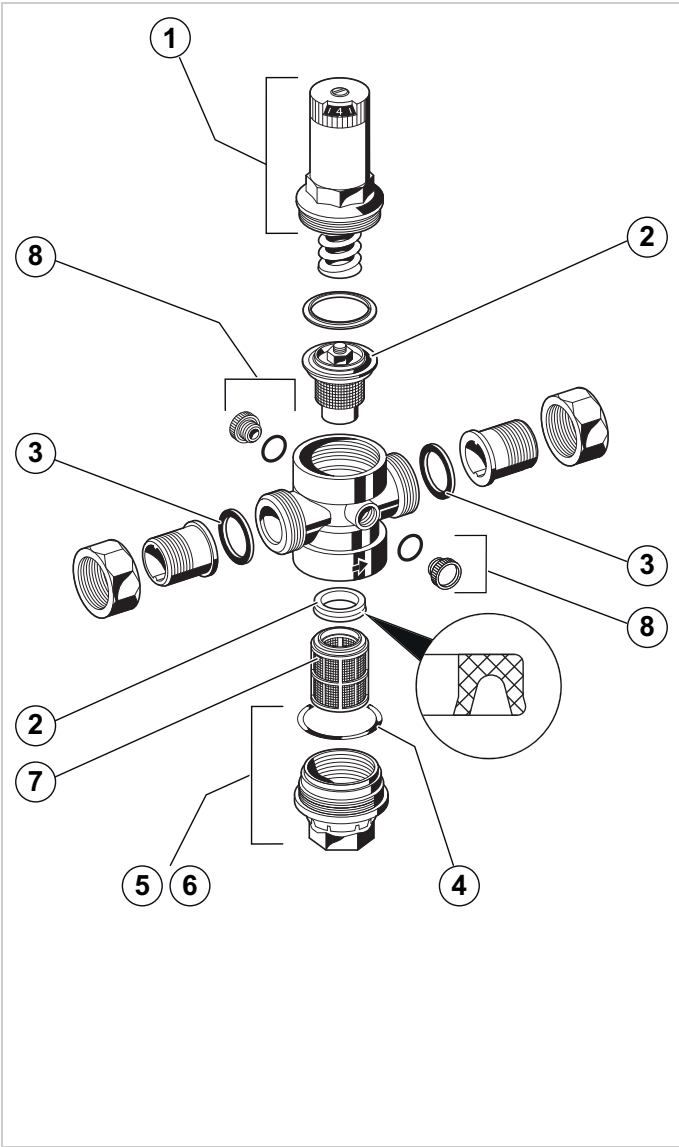
## Accessories

|                                                                                    | Description   | Dimension                                             | Item No.    |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|-------------|
|   | <b>M07M</b>   | <b>Pressure gauge</b>                                 |             |
|                                                                                    |               | Housing diameter 63 mm, rear connection thread G 1/4" |             |
|                                                                                    |               | Range: 0 - 4 bar                                      | M07M-A4     |
|                                                                                    |               | Range: 0 - 10 bar                                     | M07M-A10    |
|                                                                                    |               | Range: 0 - 16 bar                                     | M07M-A16    |
|                                                                                    |               | Range: 0 - 25 bar                                     | M07M-A25    |
|   | <b>ZR06K</b>  | <b>Double ring wrench</b>                             |             |
|                                                                                    |               | For removal of spring bonnet and filter bowl          |             |
|                                                                                    |               |                                                       | ZR06K       |
|   | <b>VST06A</b> | <b>Connection set</b>                                 |             |
|                                                                                    |               | Threaded connections                                  |             |
|                                                                                    |               | 1/2"                                                  | VST06-1/2A  |
|                                                                                    |               | 3/4"                                                  | VST06-3/4A  |
|                                                                                    |               | 1"                                                    | VST06-1A    |
|                                                                                    |               | 1 1/4"                                                | VST06-11/4A |
|                                                                                    |               | 1 1/2"                                                | VST06-11/2A |
|                                                                                    |               | 2"                                                    | VST06-2A    |
|  | <b>VST06B</b> | <b>Connection set</b>                                 |             |
|                                                                                    |               | Solder connections                                    |             |
|                                                                                    |               | 1/2"                                                  | VST06-1/2B  |
|                                                                                    |               | 3/4"                                                  | VST06-3/4B  |
|                                                                                    |               | 1"                                                    | VST06-1B    |
|                                                                                    |               | 1 1/4"                                                | VST06-11/4B |
|                                                                                    |               | 1 1/2"                                                | VST06-11/2B |
|                                                                                    |               | 2"                                                    | VST06-2B    |

Spare Parts

Pressure Reducing Valve D06F, from 1997 onwards

Overview



|   | Description                                     | Dimension   | Item No.    |
|---|-------------------------------------------------|-------------|-------------|
| 1 | Spring bonnet without spring with setting scale |             |             |
|   |                                                 | 1/2" - 3/4" | 0901515     |
|   |                                                 | 1" + 1 1/4" | 0901516     |
|   |                                                 | 1 1/2" + 2" | 0901518     |
| 2 | Valve insert complete (without filter)          |             |             |
|   |                                                 | 1/2" + 3/4" | D06FA-1/2   |
|   |                                                 | 1" + 1 1/4" | D06FA-1B    |
|   |                                                 | 1 1/2" + 2" | D06FA-11/2  |
| 3 | Union seal washer (10 pcs.)                     |             |             |
|   |                                                 | 1/2"        | 0901443     |
|   |                                                 | 3/4"        | 0901444     |
|   |                                                 | 1"          | 0901445     |
|   |                                                 | 1 1/4"      | 0901446     |
|   |                                                 | 1 1/2"      | 0901447     |
|   |                                                 | 2"          | 0901448     |
| 4 | O-ring set (10 pcs.)                            |             |             |
|   |                                                 | 1/2" + 3/4" | 0901246     |
|   |                                                 | 1" + 1 1/4" | 0901499     |
|   |                                                 | 1 1/2" + 2" | 0901248     |
| 5 | Clear filter bowl with O-ring                   |             |             |
|   |                                                 | 1/2" + 3/4" | SK06T-1/2   |
|   |                                                 | 1" + 1 1/4" | SK06T-1B    |
|   |                                                 | 1 1/2" + 2" | SK06T-11/2  |
| 6 | Brass filter bowl with O-ring                   |             |             |
|   |                                                 | 1/2" + 3/4" | SM06T-1/2   |
|   |                                                 | 1" + 1 1/4" | SM06T-1B    |
|   |                                                 | 1 1/2" + 2" | SM06T-11/2  |
| 7 | Replacement filter insert                       |             |             |
|   |                                                 | 1/2" + 3/4" | ES06F-1/2A  |
|   |                                                 | 1" + 1 1/4" | ES06F-1B    |
|   |                                                 | 1 1/2" + 2" | ES06F-11/2A |
| 8 | Blanking plug with O-ring R1/4" (5 pcs.)        |             |             |
|   |                                                 | 1/2" - 2"   | S06K-1/4    |

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Manufactured for and on behalf of  
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Subject to change. EN0H-1002GE23 R0326  
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