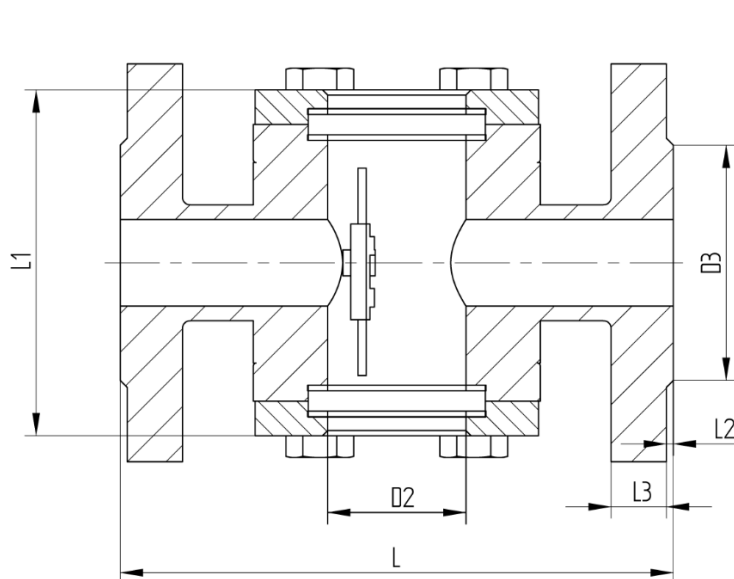


# Valve accessories

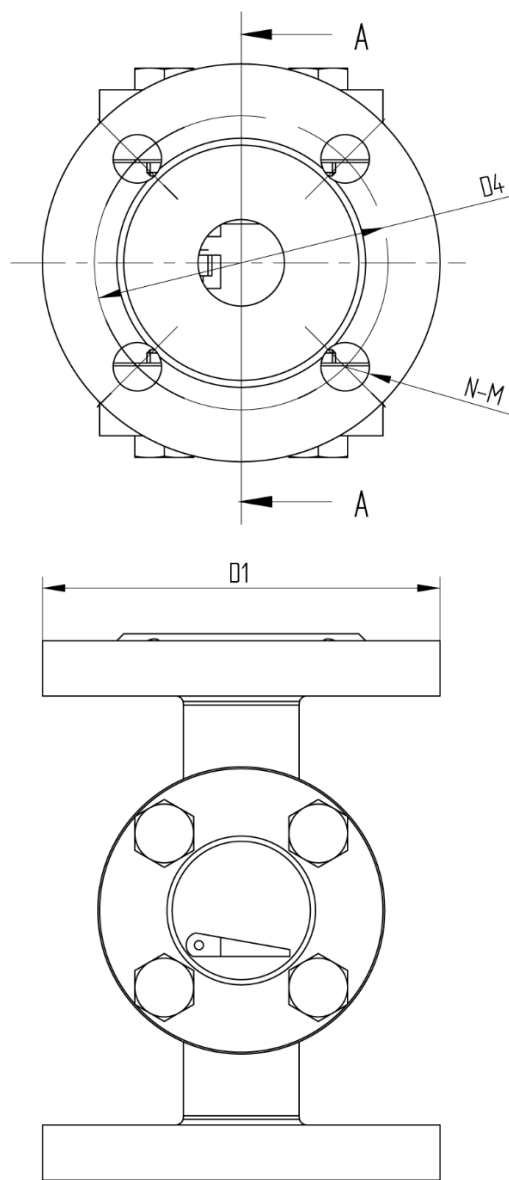
**Model 58859****Sight glass with flanges PN16  
316 stainless steel**

## Specifications

**Dimensions:** DN15 to DN100 (1/2" to 4")**Connection:** flanges in accordance with  
EN 1092-1**Pressure:** PN16**Temperature:** -20°C to +200°C**Material:** 316/CF8M stainless steel  
(for the parts that can come into contact  
with the transported fluid)  
PTFE gaskets - Toughened glass



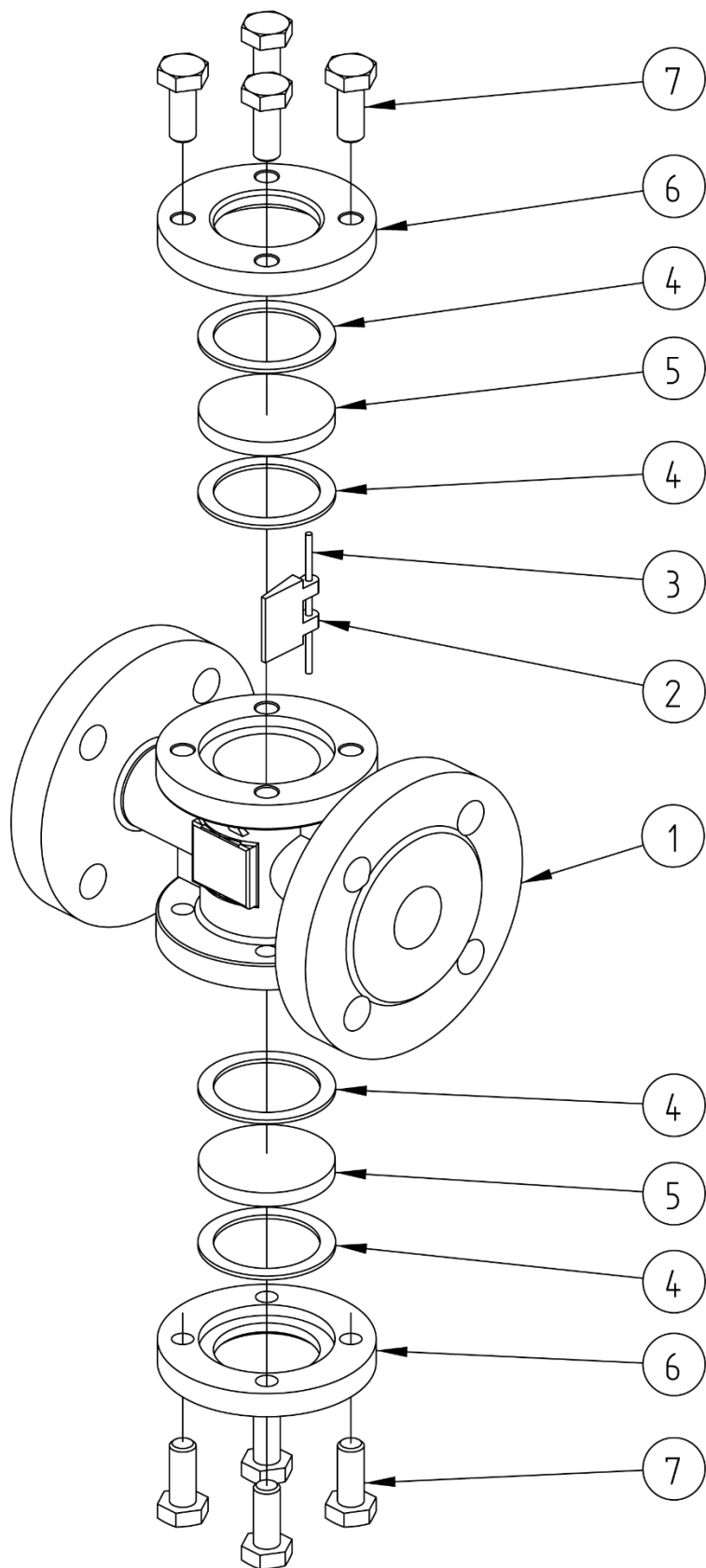
A-A cross section



| DN<br>(mm) | NB<br>(inches) | D1<br>(mm) | D2<br>(mm) | L<br>(mm) | D3<br>(mm) | D4<br>(mm) | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | M<br>(mm) | N<br>(mm) | Weight<br>(kg) | Part number |
|------------|----------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|-----------|----------------|-------------|
| 15         | 1/2"           | 95         | 40         | 130       | 45         | 65         | 100        | 2          | 14         | 14        | 4         | 2.20           | 458859-15   |
| 20         | 3/4"           | 105        | 40         | 150       | 58         | 75         | 100        | 2          | 16         | 14        | 4         | 2.90           | 458859-20   |
| 25         | 1"             | 115        | 40         | 160       | 68         | 85         | 100        | 2          | 16         | 14        | 4         | 3.40           | 458859-25   |
| 32         | 1 1/4"         | 140        | 50         | 180       | 78         | 100        | 125        | 2          | 16         | 18        | 4         | 4.60           | 458859-32   |
| 40         | 1 1/2"         | 150        | 50         | 200       | 88         | 110        | 125        | 3          | 16         | 18        | 4         | 5.10           | 458859-40   |
| 50         | 2"             | 165        | 50         | 230       | 102        | 125        | 125        | 3          | 18         | 18        | 4         | 6.20           | 458859-50   |
| 65         | 2 1/2"         | 185        | 85         | 290       | 122        | 145        | 167        | 3          | 18         | 18        | 4         | 7.30           | 458859-65   |
| 80         | 3"             | 200        | 85         | 310       | 138        | 160        | 180        | 3          | 20         | 18        | 8         | 9.40           | 458859-80   |
| 100        | 4"             | 220        | 110        | 350       | 158        | 180        | 210        | 3          | 20         | 18        | 8         | 10.50          | 458859-100  |

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Technical information, illustrations and photographs are provided for information only, they are not contractual. Some may vary according to the tolerances accepted in the profession and the applicable standards. All instructions for use, disassembly and maintenance are recommendations only. These could also vary depending on product usage conditions, its installation environment and purchaser requirements – of which the purchaser alone is responsible for their definition.

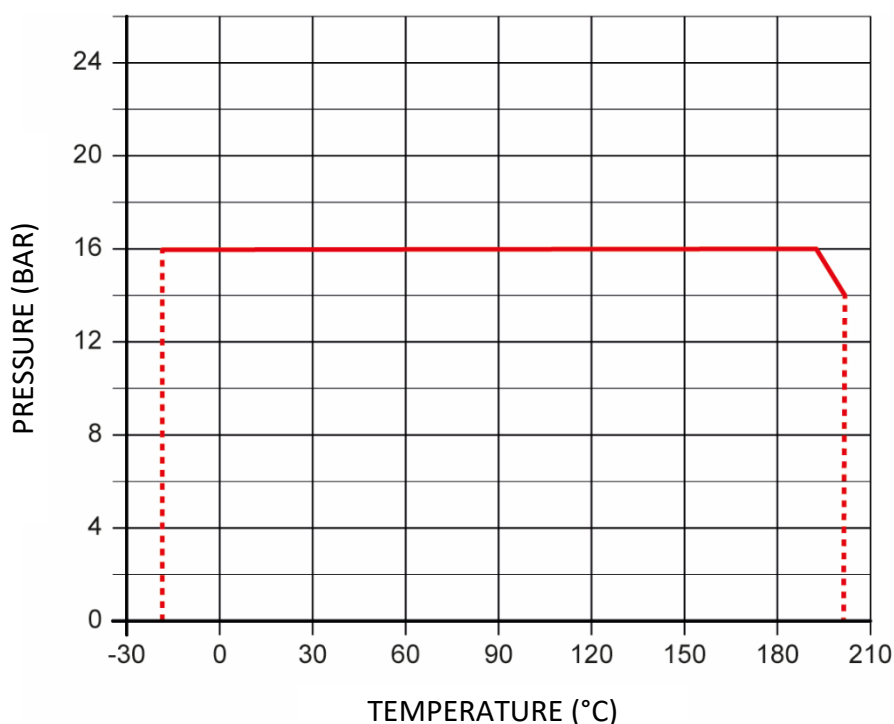


| N° | Part Name     | Material |
|----|---------------|----------|
| 1  | BODY          | CF8M     |
| 2  | FLAPPER       | CF8M     |
| 3  | PIN (FLAPPER) | AISI 316 |
| 4  | GASKET        | PTFE     |
| 5  | SIGHT GLASS   | GLASS    |
| 6  | CAP           | CF8M     |
| 7  | SCREW         | A2       |

## Use

### Pressure and temperature

For pressure/temperature ratings, see the graph below.



Warning: If the sight glass is used with fluids that have a temperature above 60°C then people could burn themselves if they touch it.

### Fluids

This sight glass is suitable for all types of fluids, as long as the fluids are chemically compatible with the parts that they can come into contact with.

The flapper, which makes it possible to see the flow of colourless fluids or gases, can be removed if you do not need this functionality.

## Assembly and maintenance instructions

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### Installation

A sight glass can be installed in any position, on horizontal pipes as well as vertical ones (except if the fluid in the pipes is moving downwards). When you install the sight glass make sure that the arrow on it is pointing in the direction in which fluids will pass through it.

The flapper inside the sight glass makes it possible to see fluid flow even if the fluid in the pipe is colourless. The flapper can be removed.

Check that there is enough space to carry out maintenance operations where you are planning to install the sight glass. Check that the installation is clean and free from foreign bodies that could damage the sight glass.

Check that all piping is perfectly aligned and that the piping support structure is dimensioned so that the sight glass is not subject to any external stresses. The piping support structure must only support the pipes, not the sight glass.

Sight glass installation:

Weld flanges (e.g. flanges with a collar) onto the piping and respect the required spacing and alignment of the mounting holes. You must check that the sight glass is correctly lined up with the flanges during installation. For heavy parts, use lifting devices if necessary.

Clean the installation so that there are no foreign bodies in the piping.

Check the sight glass is operating correctly.

Pressure test the installation according to the relevant standards, but do not exceed the sight glass's specifications.

### Maintenance

The sight glass does not require any specific maintenance if it is used in normal operating conditions.

You may need to change some of the sight glass's parts due to normal wear and tear, or if a fluid has damaged it and caused a leak or malfunction.

If this is the case see the 'Assembly / Disassembly' and 'Spare Parts' sections below.

### Assembly / Disassembly

Unscrew the screws **7** to remove the caps **6**, the gaskets **4** and the toughened glass parts **5**. Clean the inside of the sight glass if needed.

Replace the gaskets **4** and the toughened glass parts **5** if necessary.

Follow the disassembly steps in reverse to reassemble the sight glass.

## Spare parts



### Repair kit

A repair kit contains:

- 4 gaskets **2**
- 2 toughened glass parts **3**

| DN<br>(mm) | NB<br>(inches) | Part number  |
|------------|----------------|--------------|
| 15 to 25   | 1/2" to 1"     | D5091-152026 |
| 32 to 40   | 1"1/4 to 1"1/2 | D5091-3240   |
| 50         | 2"             | D5091-50     |

## Standards and compliance

- Connection: ISO flanges according to EN1092-1.
- This valve complies with European Pressure Equipment Directive (PED) 2014/68/EU (formerly 97/23/EC).