

## GAS FILTERS

### Serie IF2/6...



**ITALPUMP**



### CHARACTERISTICS

Gas filter serie IF prevents the passage of particles of dust or debris brought by the gas, protecting the regulation and safety device.

Gas filter serie IF have a large filtering component made of synthetical washable material which is fully removable for complete inspection and cleaning. Special O-Ring sealings, resistant to third gas family, make easy removal.

ITALPUMP filters permits upstream pressure measurement through an appropriate standard connection.

**Pmax = 2 bar**

**Pmax = 6 bar**

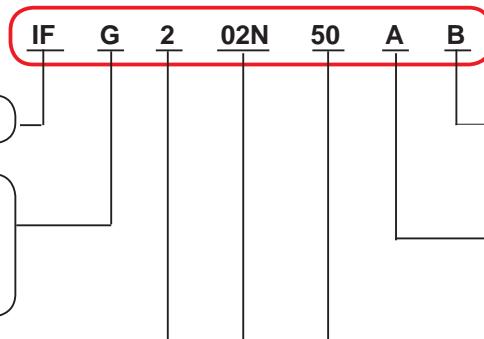
DN 15, DN 20 and DN 25 connections are available in compact version.

- EC certified according to EN 126

- In conformity with the 2009/142/EC Directive (Gas Directive)

In conformity with the 97/23/EC Directive (PED Directive)

### IDENTIFICATION



Gas filter series IF...

#### Types

C = COMPACT version (DN15-25)

G = Central cartridge plane surface filter (DN25M-50)

#### Pmax

2 = Pmax 2 bar

6 = Pmax 6 bar

#### Connections

| Threaded |                 |          |                   | Flanged |        |           |             |
|----------|-----------------|----------|-------------------|---------|--------|-----------|-------------|
| Code     | GAS             | Code NPT | NPT               | Code    | PN 16  | Code ANSI | ANSI PN 16  |
| 02       | DN 15 (G 1/2")  | 02N      | DN 15 (NPT 1/2")  |         |        |           |             |
| 03       | DN 20 (G 3/4")  | 03N      | DN 20 (NPT 3/4")  |         |        |           |             |
| 04       | DN 25 (G 1")    | 04N      | DN 25 (NPT 1")    | 25      | DN 25  | 25A       | DN 25 ANSI  |
| 05       | DN 32 (G 1"1/4) | 05N      | DN 32 (NPT 1"1/4) | 32      | DN 32  | 32A       | DN 32 ANSI  |
| 06       | DN 40 (G 1"1/2) | 06N      | DN 40 (NPT 1"1/2) | 40      | DN 40  | 40A       | DN 40 ANSI  |
| 07       | DN 50 (G 2")    | 07N      | DN 50 (NPT 2")    | 50      | DN 50  | 50A       | DN 50 ANSI  |
|          |                 |          |                   | 08      | DN 65  | 08A       | DN 65 ANSI  |
|          |                 |          |                   | 09      | DN 80  | 09A       | DN 80 ANSI  |
|          |                 |          |                   | 10      | DN 100 | 10A       | DN 100 ANSI |

#### Versions

A = Without pressure nipples or caps

B = Inlet G 1/8" pressure nipple

C = Inlet and outlet G 1/8" pressure nipple

D = Inlet G 1/8" cap

E = Inlet and outlet G 1/8" cap

F = 4 G 1/4" caps

G = Inlet and outlet G 1/4" cap

H = 2 G 1/8" pressure nipples and 2 G 1/8" caps

I = Inlet and outlet G 1/4" pressure nipple

J = 4 G 1/4" pressure nipples

K = 2 G 1/4" pressure nipples and 2 G 1/4" caps

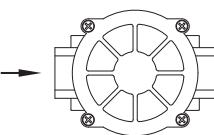
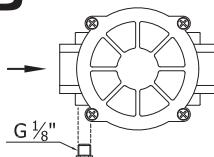
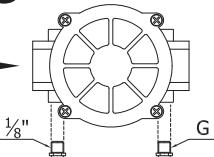
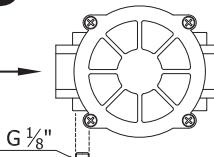
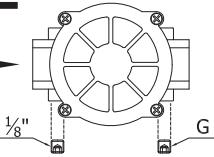
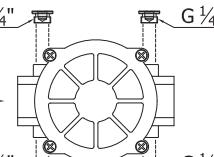
#### Filtration

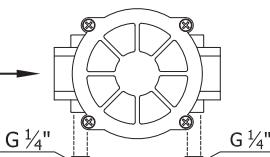
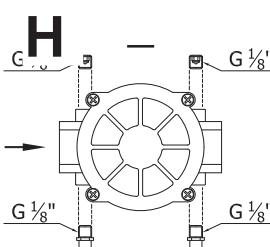
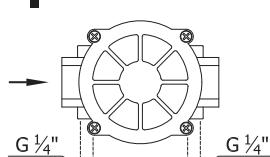
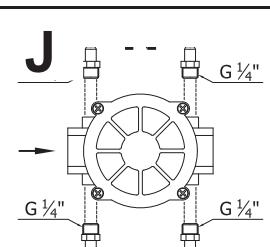
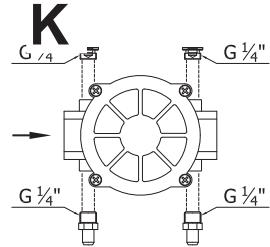
50 =  $\mu\text{m}$

**on request other filtering**

**NOTE: not all combinations are possible  
Please contact the technical department.**

## VERSIONS

|          | IFC<br>DN 15 - DN 20 - DN 25  | IF<br>DN 15 - DN 20 - DN 25 | IFG<br>DN 25-32 - DN 40 - DN 50 | IF<br>DN 32 - DN 40 - DN 50 | IF<br>DN 32FL - DN 40FL - DN 50FL | IF<br>DN 65 - DN 80 - DN 100 |
|----------|---|-----------------------------|---------------------------------|-----------------------------|-----------------------------------|------------------------------|
| <b>A</b> |    | ✓                           | ✓                               | ✓                           | ✓                                 | ✓                            |
| <b>B</b> |    | ✓                           | ✓                               | ✓                           | ✓                                 | ✓                            |
| <b>C</b> |  | ✓                           | ✓                               | ✓                           | ✓                                 | ✓                            |
| <b>D</b> |  | ✓                           | ✓                               | ✓                           | ✓                                 | ✓                            |
| <b>E</b> |  | ✓                           | ✓                               | ✓                           | ✓                                 | ✓                            |
| <b>F</b> |  | ✗                           | ✗                               | ✗                           | ✓                                 | ✓                            |

|          | IFC<br>DN 15 - DN 20 - DN 25   | IF<br>DN 15 - DN 20 - DN 25 | IFG<br>DN 32 - DN 40 - DN 50 | F<br>DN 32 - DN 40 - DN 50 | F<br>DN 32 FL - DN 40FL - DN 50FL | IF<br>DN 65 - DN 80 - DN 100 |
|----------|--|-----------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|
| <b>G</b> |    | ✓                           | ✗                            | ✓                          | ✓                                 | ✓                            |
| <b>H</b> |   | ✗                           | ✓                            | ✗                          | ✓                                 | ✓                            |
|          |  | ✓                           | ✗                            | ✓                          | ✓                                 | ✓                            |
| <b>J</b> |  | ✗                           | ✗                            | ✗                          | ✓                                 | ✓                            |
| <b>K</b> |  | ✗                           | ✗                            | ✗                          | ✓                                 | ✓                            |

## GENERAL DATA

### TECHNICAL DATA

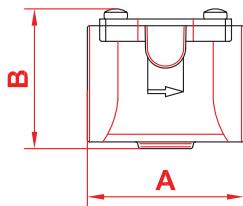
- Use: not aggressive gases of the 3 families (dry gases)
- Threaded connections Rp: (DN 15 ÷ DN 50) according to EN 10226
- Flanged connections PN 16: (DN 25 ÷ DN 100) according to ISO 7005
- On request ANSI 150 flanged connections
- Max. working pressure: 2 bar or 6 bar
- Environment temperature: -15 ÷ +70 °C
- Group: 2
- Filtration: 50 µm (on request other)

### MATERIALS

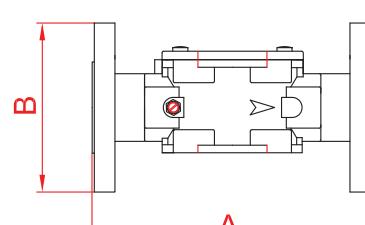
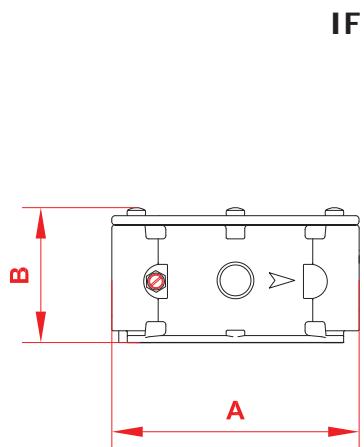
- Die-cast aluminium (UNI EN 1706)
- OT-58 brass (UNI EN 12164)
- 11S aluminium (UNI 9002-5)
- Galvanized and 430 F stainless steel (UNI EN 10088)
- NBR rubber (UNI 7702)
- Nylon 30% glass fibre (UNI EN ISO 11667)
- Viledon

## DIMENSIONS

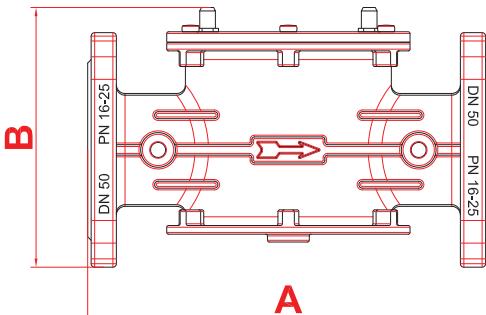
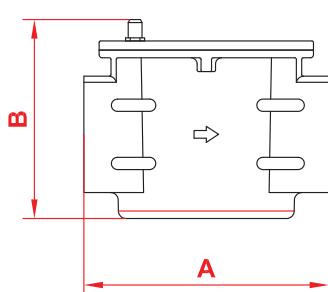
**IFC**



**IF**



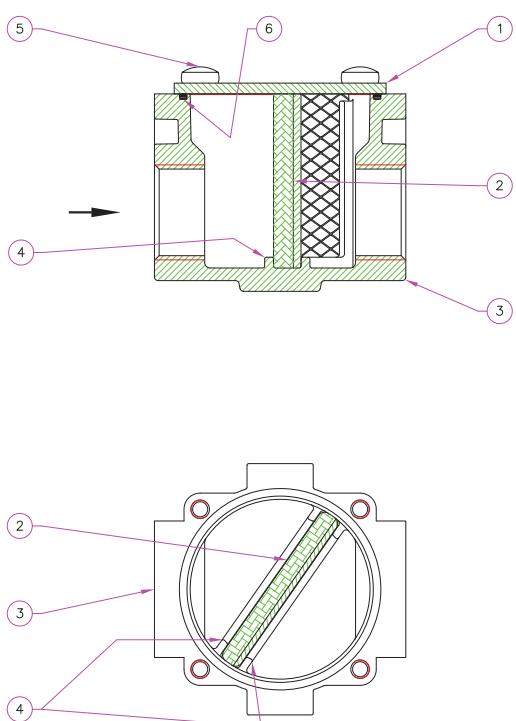
**IFG**



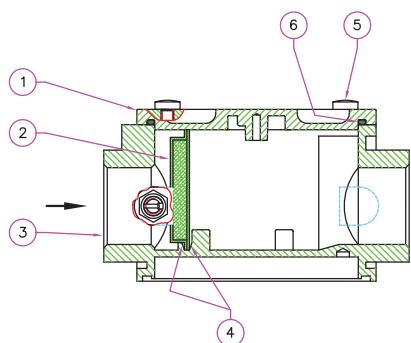
| Type | Threaded sizes  | Flanged connections | A   | B   | Weight (Kg)                        | Filtering area (mm <sup>2</sup> ) |
|------|-----------------|---------------------|-----|-----|------------------------------------|-----------------------------------|
| IFC  | DN 15 (compact) | -                   | 70  | 63  | 0,35                               | 3890                              |
| IFC  | DN 20 (compact) | -                   | 70  | 63  | 0,35                               | 3890                              |
| IFC  | DN 25 (compact) | -                   | 70  | 63  | 0,35                               | 3890                              |
| IF   | DN 15           | -                   | 120 | 72  | 0,5                                | 4560                              |
| IF   | DN 20           | -                   | 120 | 72  | 0,5                                | 4560                              |
| IF   | DN 25           | -                   | 120 | 72  | 0,5                                | 4560                              |
| IF   | DN 32           | -                   | 160 | 87  | 1,2                                | 19040                             |
| IF   | DN 40           | -                   | 160 | 87  | 1,2                                | 19040                             |
| IF   | DN 50           | -                   | 160 | 110 | 1,35                               | 26770                             |
| IFG  | DN 25M          | -                   | 160 | 135 | 1,4                                | 10650                             |
| IFG  | DN 32           | -                   | 160 | 135 | 1,35                               | 10650                             |
| IFG  | DN 40           | -                   | 160 | 135 | 1,35                               | 10650                             |
| IFG  | DN 50           | -                   | 160 | 135 | 1,35                               | 10650                             |
| IF   | -               | DN 25               | 192 | 115 | 3,2                                | 19040                             |
| IF   | -               | DN 32               | 230 | 150 | 2,5                                | 10650                             |
| IF   | -               | DN 40               | 230 | 150 | 2,5                                | 10650                             |
| IF   | -               | DN 50               | 230 | 150 | 2,5                                | 10650                             |
| IF   | -               | DN 65               | 290 | 180 | 5,3                                | 39240                             |
| IF   | -               | DN 80               | 310 | 195 | 5,7                                | 39240                             |
| IF   | -               | DN 100              | 350 | 211 | 9,8 (Pmax 2 bar) / 15 (Pmax 6 bar) | 76250                             |

## COMPONENTS

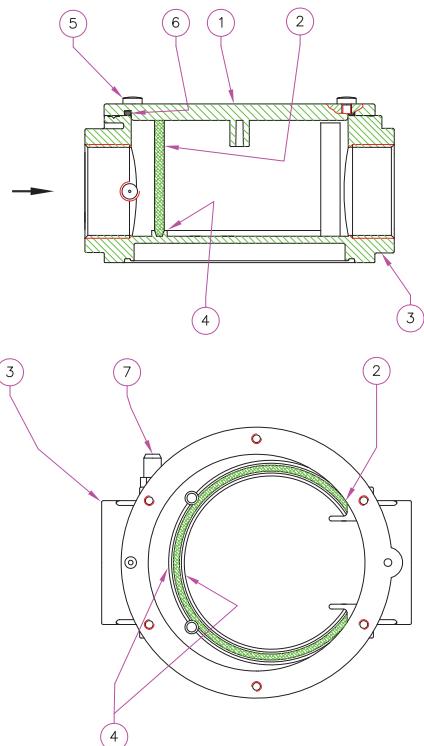
**IFC DN 15 ÷ 25  
compact**



**IF DN 15 ÷ 25**



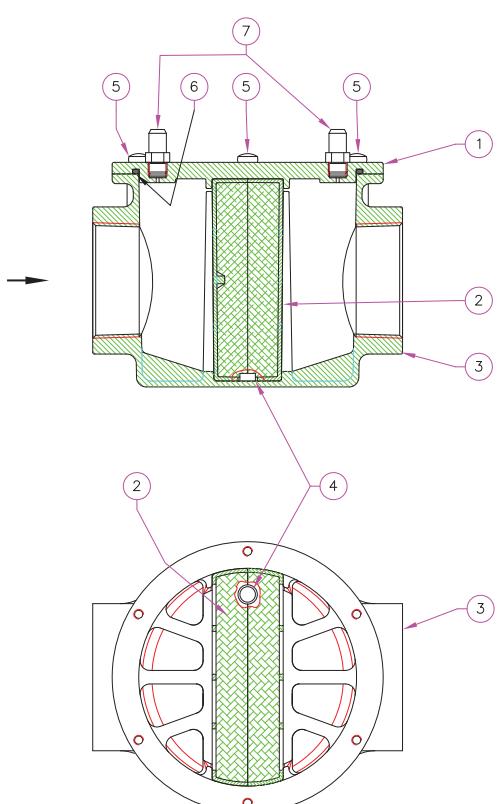
**IF DN 32 ÷ 50**



**LEGEND**

- 1 - Cover / Bottom
- 2 - Filtering organ
- 3 - Body
- 4 - Slotting guides
- 5 - Fixing screws
- 6 - Seal O-Ring
- 7 - Pressure nipple

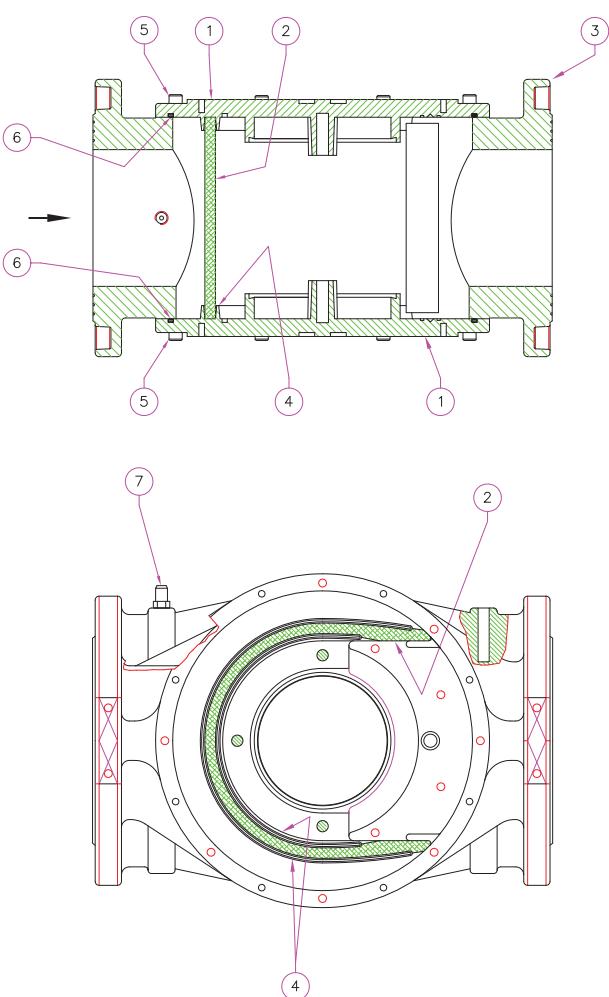
**IFG DN 25 ÷ 50**



**LEGEND**

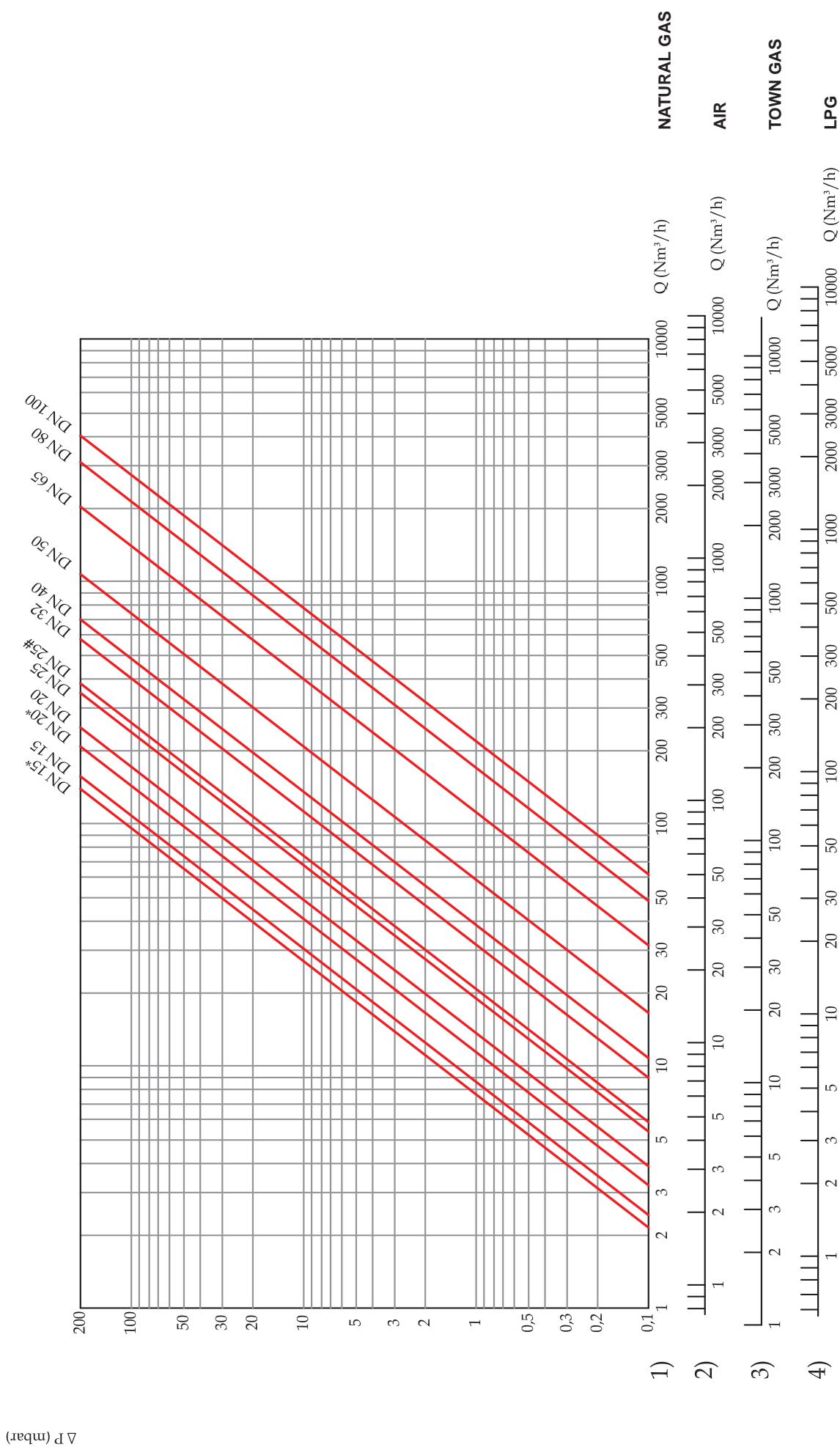
- 1 - Cover / Bottom
- 2 - Filtering organ
- 3 - Body
- 4 - Slotting guides
- 5 - Fixing screws
- 6 - Seal O-Ring
- 7 - Pressure nipple
- 8 - Special tongues

**IF DN 65 ÷ 100**



## PRESSURE DROP DIAGRAM

\* = COMPACT version



## INSTALLATION



Installation must be in compliance with local law in force!

**WARNING:** Read carefully the instruction sheet of each product before installing.  
Installation and maintenance must be carried out by technical personnel.

- The gas supply must be shut off before installation.
- Check that the line pressure **DOES NOT EXCEED** the maximum pressure stated on the product label.
- The filter is normally installed upstream the regulation organs and the interception device. It must be installed with the arrow (on the body valve) towards the user.
- It can be installed in any position without compromising the correct working. Outside the filter there is a checking pressure-tap.
- During installation take care not to allow debris or scraps of metal to enter the device.
- If the device is threaded check that the pipeline thread is not too long; overlong threads may damage the body of the device when screwed into place.
- If the device is flanged check that the inlet and outlet counterflanges are perfectly parallel to avoid unnecessary mechanical stresses on the body of the device. Also calculate the space needed to fit the seal. If the gap left after the seal is fitted is too wide, do not try to close it by over-tightening the device's bolts.
- Always check that the system is gas-tight after installation.

## MAINTENANCE

In all cases, before performing any internal checks make sure that there is no pressurised gas inside the device.

Remove cover (1) and unscrew the fixing screws (5). Disassemble the filter cartridge (2), clean with soap and water, blow with compressed air (or substitute if necessary) and re-assemble in the original position checking that it is properly positioned in the guides (4), and check that it does not prevent assembly of the cover (1).

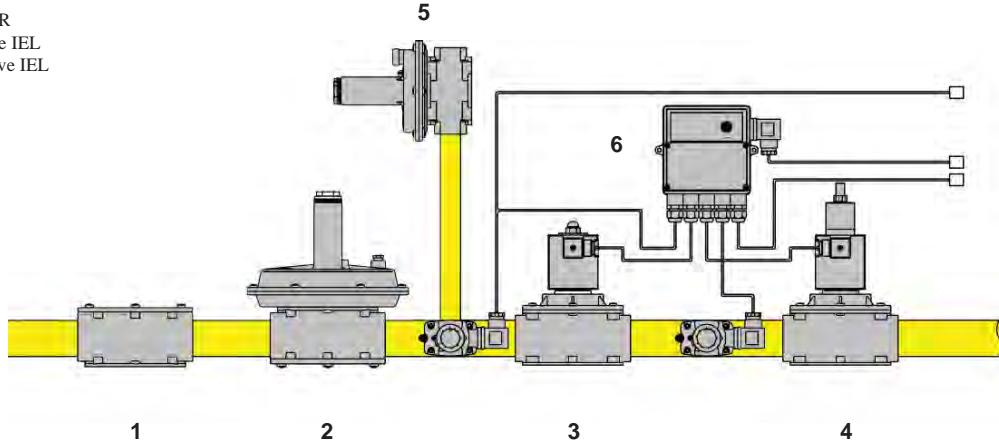
Lastly re-assemble the cover (1) making sure that the O-ring (6) is in the correct position.



All operations must be carried out only by qualified personnel.

## EXAMPLE OF INSTALLATION

1. gas filter IF
2. filter regulator IFR
3. fast opening valve IEL
4. slow opening valve IEL
5. overflow valve
6. leak tester



FOR FORWARD INFORMATION PLEASE CONTACT OUR TECHNICAL OFFICE.