

## Pressure regulator stainless steel Series PR08



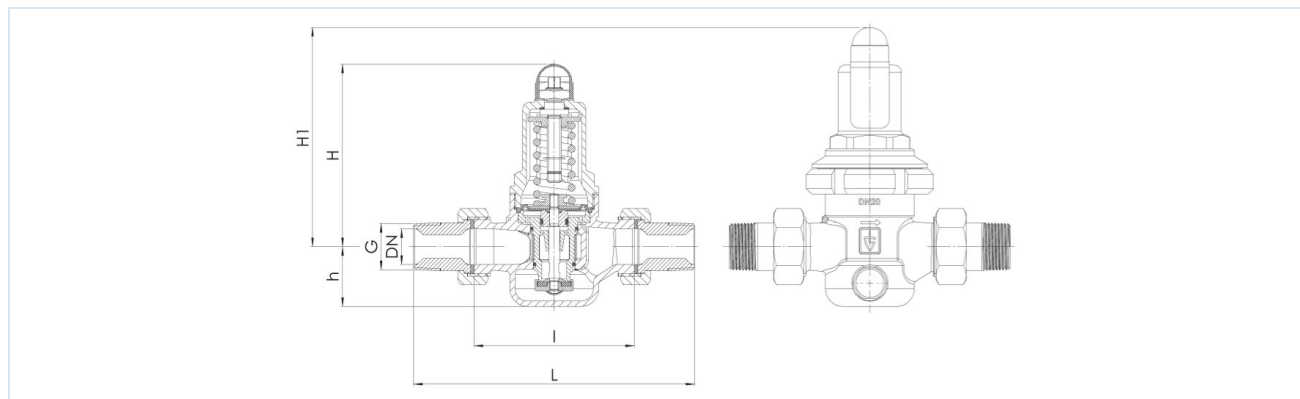
|                           |                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type               | Pressure regulator without secondary venting with integrated fine mesh filter at the inlet, Connection fitting and union nut, Pressure setting above non-rising stem |
| Function                  | Control of secondary pressure                                                                                                                                        |
| Connection                | R1/2" ... R2" according to ISO7/1                                                                                                                                    |
| Pressure gauge connection | G1/4" according to ISO228/1                                                                                                                                          |
| Materials                 | Housing and spring bonnet Stainless steel 1.4408, Union nut Stainless steel 1.4408, Fine mesh filter 1.4404, Seals and diaphragms FKM or rather EPDM                 |
| Application range         | gaseous and liquid media that do not attack the materials used (not suitable for steam)                                                                              |
| Medium temperature        | see table                                                                                                                                                            |
| Ambient temperature       | -10...+95°C                                                                                                                                                          |
| Inlet pressure            | see table                                                                                                                                                            |
| Control range             | see table                                                                                                                                                            |
| Flow direction            | is marked by an arrow                                                                                                                                                |
| Mounting type             | Installation in rigid piping system                                                                                                                                  |
| Mounting position         | any                                                                                                                                                                  |
| Scope of delivery         | without Pressure gauge                                                                                                                                               |

Table:

| Seal | Inlet pressure max. [bar] | Control range [bar] | Medium temperature [°C] | Type             |
|------|---------------------------|---------------------|-------------------------|------------------|
| FKM  | 25                        | 0,5...2             | -10...120               | PR08-...-0.5/2   |
| FKM  | 40                        | 1...8               | -10...120               | PR08-...-1/8     |
| FKM  | 40                        | 5...15              | -10...95                | PR08-...-5/15    |
| EPDM | 25                        | 0,5...2             | -20...120               | PR08-...-0.5/2-E |
| EPDM | 40                        | 1...8               | -20...120               | PR08-...-1/8-E   |
| EPDM | 40                        | 5...15              | -20...95                | PR08-...-5/15-E  |



## Dimensions



### Pressure range 1..8bar/5...15bar

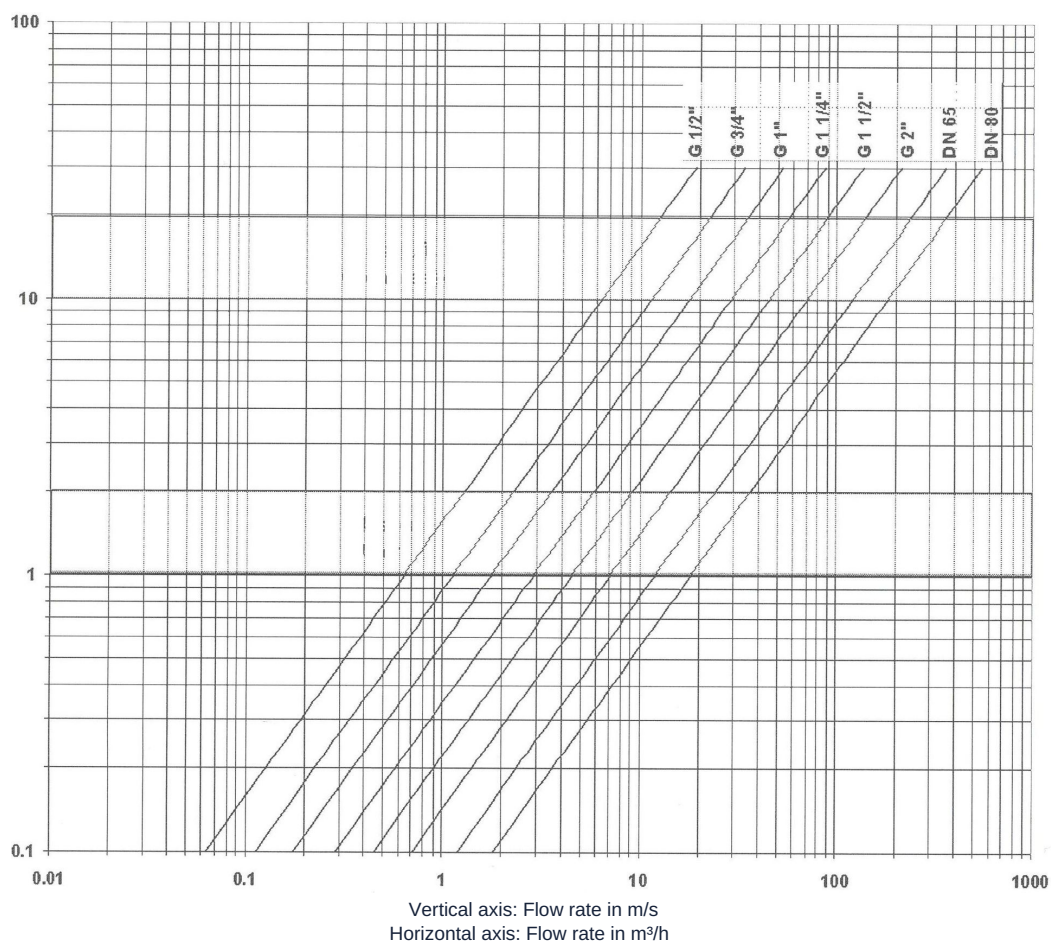
| G      | DN | H   | h  | l   | L   | Mesh size Fine mesh filter [mm] | Kvs value [m³/h] | Weight [approx. kg] | Type               |
|--------|----|-----|----|-----|-----|---------------------------------|------------------|---------------------|--------------------|
| R1/2"  | 15 | 102 | 33 | 80  | 142 | 0,6                             | 3                | 1,2                 | PR08-12-1/8(5/15)  |
| R3/4"  | 20 | 102 | 33 | 90  | 158 | 0,6                             | 3,5              | 1,3                 | PR08-34-1/8(5/15)  |
| R1"    | 25 | 130 | 45 | 100 | 180 | 0,6                             | 6,7              | 2,3                 | PR08-10-1/8(5/15)  |
| R11/4" | 32 | 130 | 45 | 105 | 193 | 0,6                             | 7,6              | 2,5                 | PR08-114-1/8(5/15) |
| R11/2" | 40 | 165 | 70 | 130 | 226 | 0,75                            | 12,5             | 5,2                 | PR08-112-1/8(5/15) |
| R2"    | 50 | 165 | 70 | 140 | 252 | 0,75                            | 15               | 5,7                 | PR08-20-1/8(5/15)  |

### Pressure range 0,5...2bar

| G      | DN | H1  | h  | l   | L   | Mesh size Fine mesh filter [mm] | Kvs value [m³/h] | Weight [approx. kg] | Type           |
|--------|----|-----|----|-----|-----|---------------------------------|------------------|---------------------|----------------|
| R1/2"  | 15 | 128 | 33 | 80  | 142 | 0,6                             | 3                | 1,5                 | PR08-12-0.5/2  |
| R3/4"  | 20 | 128 | 33 | 90  | 158 | 0,6                             | 3,5              | 1,6                 | PR08-34-0.5/2  |
| R1"    | 25 | 150 | 45 | 100 | 180 | 0,6                             | 6,7              | 2,8                 | PR08-10-0.5/2  |
| R11/4" | 32 | 150 | 45 | 105 | 193 | 0,6                             | 7,6              | 3,0                 | PR08-114-0.5/2 |
| R11/2" | 40 | 185 | 70 | 130 | 226 | 0,75                            | 12,5             | 5,9                 | PR08-112-0.5/2 |
| R2"    | 50 | 185 | 70 | 140 | 252 | 0,75                            | 15               | 6,4                 | PR08-20-0.5/2  |



## Flow diagram



For liquids a flow velocity of 2 m/s should not be exceeded.

With compressed air, a flow velocity of 20 m/s should not be exceeded.

When using the diagram for compressed air, the flow rate V must always be entered in operating m³/h.. The conversion to operating cubic meters is carried out by dividing the standard cubic meters by the **Absolute pressure = Operating pressure + 1 [bar]**.

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Pressure regulators, safety valves and accessories / Pressure regulator / Pressure regulator Series PR08...5/15

Version 9

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