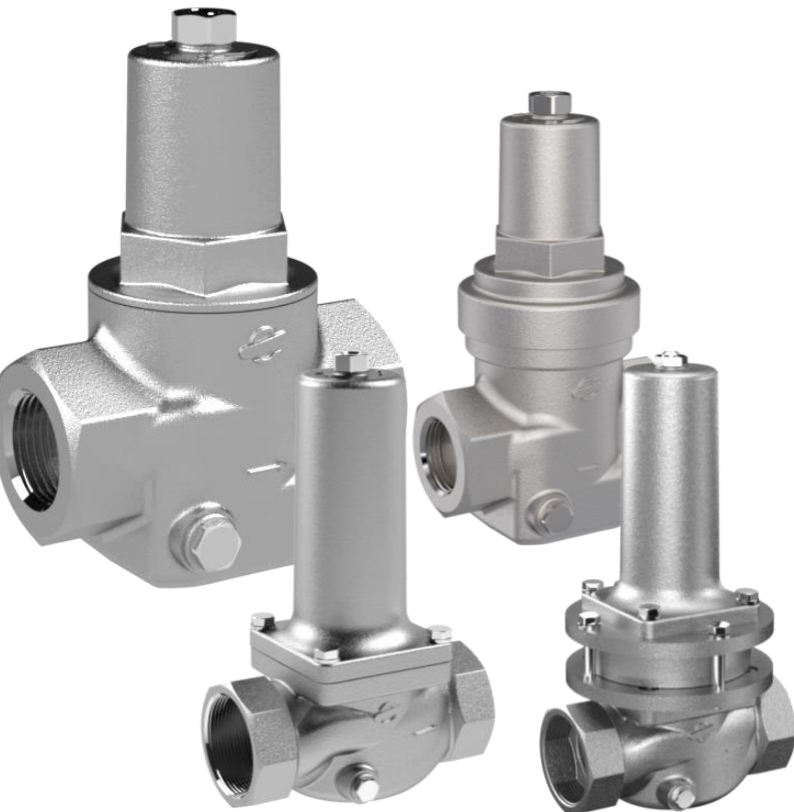


# Steam pressure reducing valve type DM21



**Description:**

Steam pressure reducing valves made of stainless steel are used to regulate the supply pressure in a system. Compensation of different inlet pressures to a certain pressure at the outlet side.

**Features:**

- **suitable for steam and hot water applications**
- **also suitable for air & neutral non-inflammable gases and for aggressive water applications**
- industrial design – full metal
- manometer connection G 1/4" inch axial on both sides for outlet-pressure
- Piston-controlled, spring-loaded pressure relieved single seated valve
- mounting position: any, preferably vertical

**Connection:**

1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

**Temperature:**

+20°C to +200°C

**Pressure:**

Inlet pressure: up to 16,0 bar

Outlet pressure: 0,3 bar - 10,0 bar - Depending on design

Subject to PED 2014/68/EU

**Design:**

Piston-pressure reducing valve

**Body:**

Stainless steel 1.4408

**Spring bonnet:**

Stainless steel 1.4408

**diaphragm:**

**TYP DM21** PTFE / EPDM / FEPM +20°C bis +200°C

**Internals:**

Stainless steel 1.4404 (wetted parts)

**Assembly position:**

any, preferably vertical spring bonnet upside down

**Connection:**

Female screw threaded acc. to ISO 228 (optionally NPT thread)

**Outlet pressure:**

	<b>Outlet pressure</b>	<b>Inlet pressure</b>
Spring 00	0,3 bis 2,0 bar	bis 16,0 bar
Spring 01	2,0 bis 5,0 bar	bis 16,0 bar
Spring 02	4,0 bis 10,0 bar	bis 16,0 bar

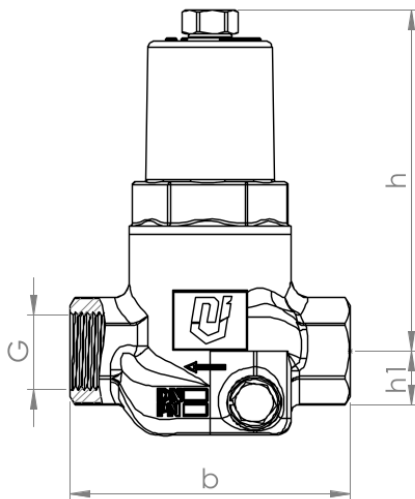
**Minimum pressure difference:**

Inlet-/outlet pressure 1 bar

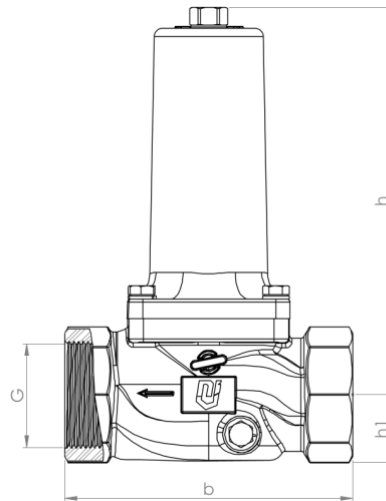
**Dimensions:**

<b>Diameter DN</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>
Female thread G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
b	95	95	110	120	150	160
h1	29	29	38	38	38	38
h	117	117	17	117	214	217
Kvs-value m3/h	3,6	4,1	5,3	5,6	13,3	14,0
Weight kg	1,5	1,4	2,2	2,1	5,5	5,4
<b>Low pressure design 0,3 - 2,0 bar</b>						
b	95	95	110	120	150	160
h1	29	29	38	38	38	38
h	150	150	151	151	262	262
Kvs-value m3/h	3,0	3,3	4,5	4,7	11,3	12,0
weight kg	2,3	2,3	3,1	3,0	8,6	8,5

**Standard**

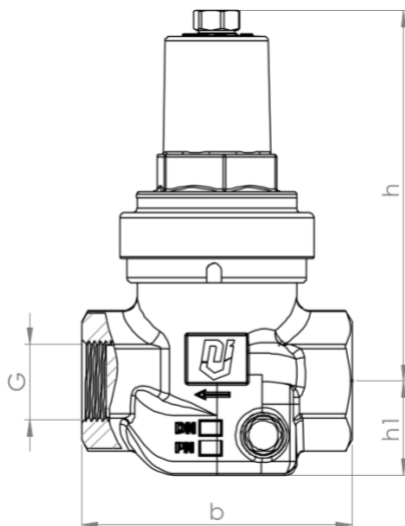


**DN15-DN32**

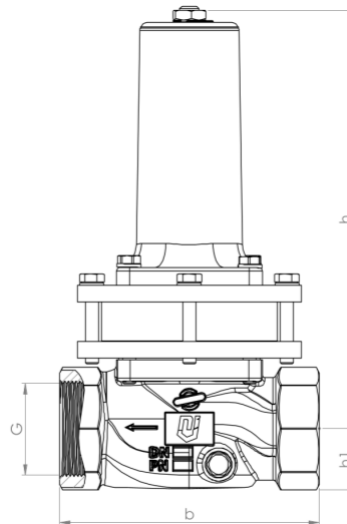


**DN40-DN50**

**Low pressure**



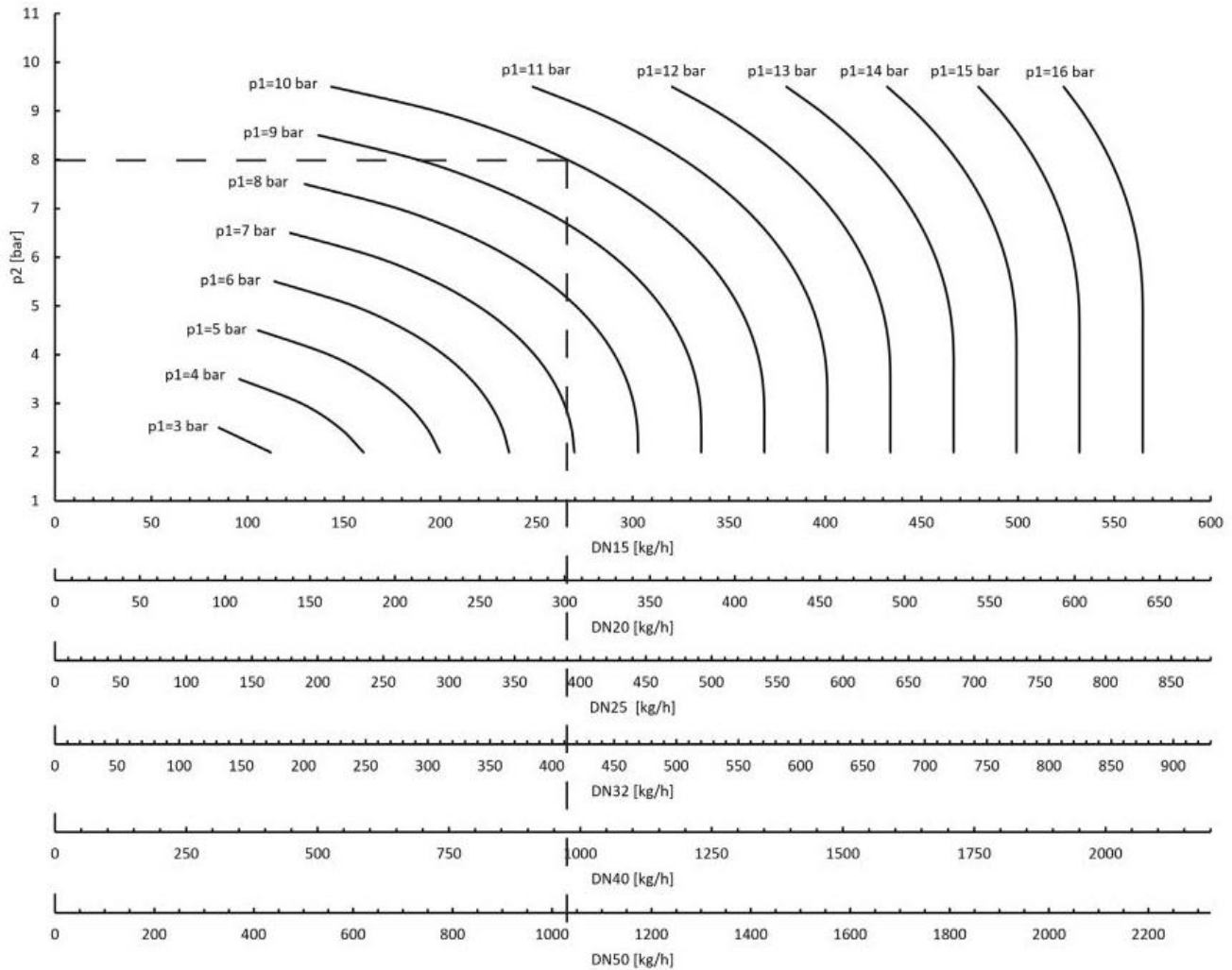
**DN15-DN32**



**DN40-DN50**

flow-diagram:

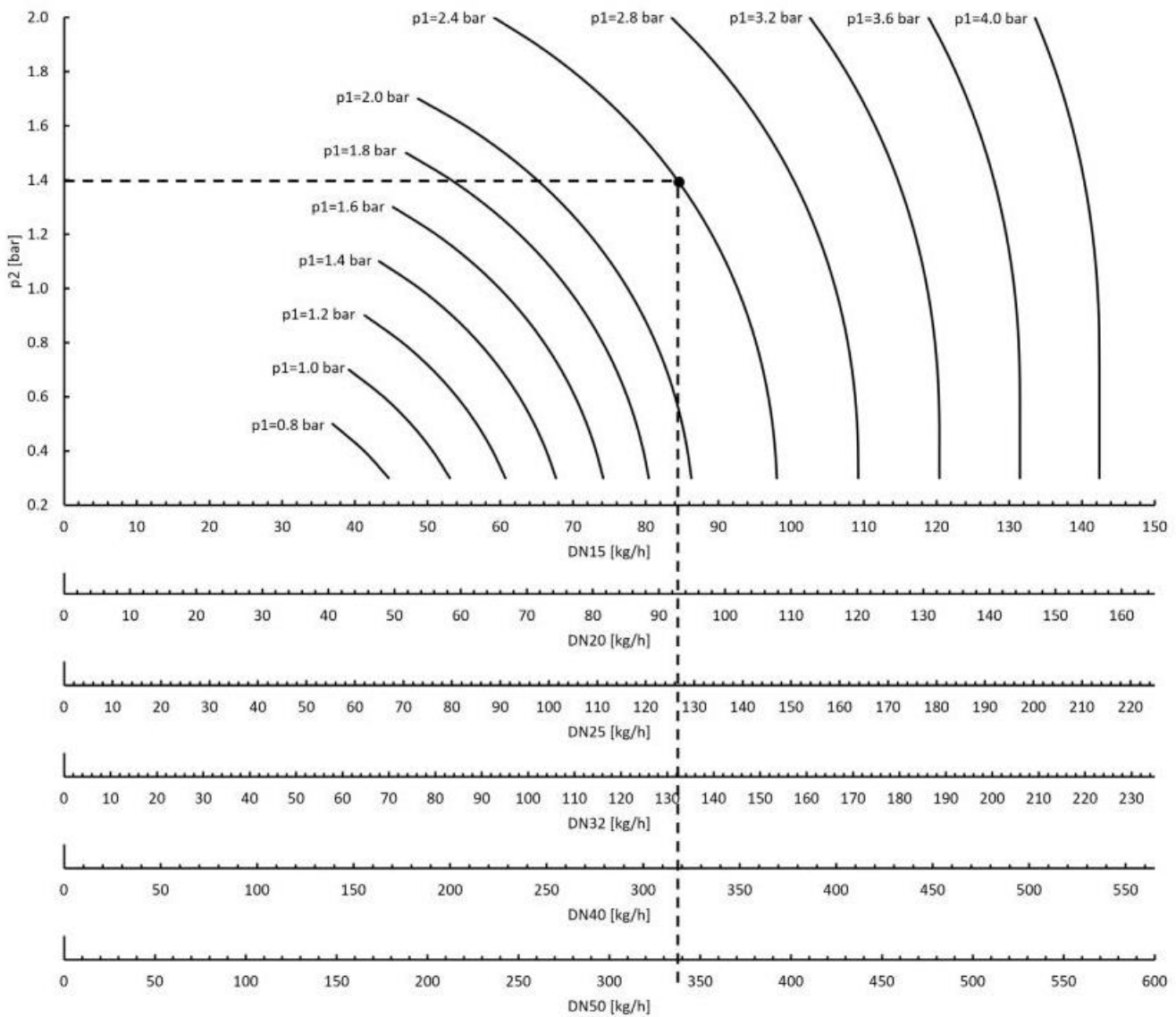
pressure range 2-5 & 4-10 bar:



**Example:**

Selection of a valve for an upstream pressure ( $p_1$ ) of 10 and a downstream pressure ( $p_2$ ) of 8 bar. The application requires a saturated steam mass flow of 350 kg/h. Sizing according to valve utilization: Entering the criteria shows that a DN25 valve would be sufficient (required capacity is left from the dashed line).

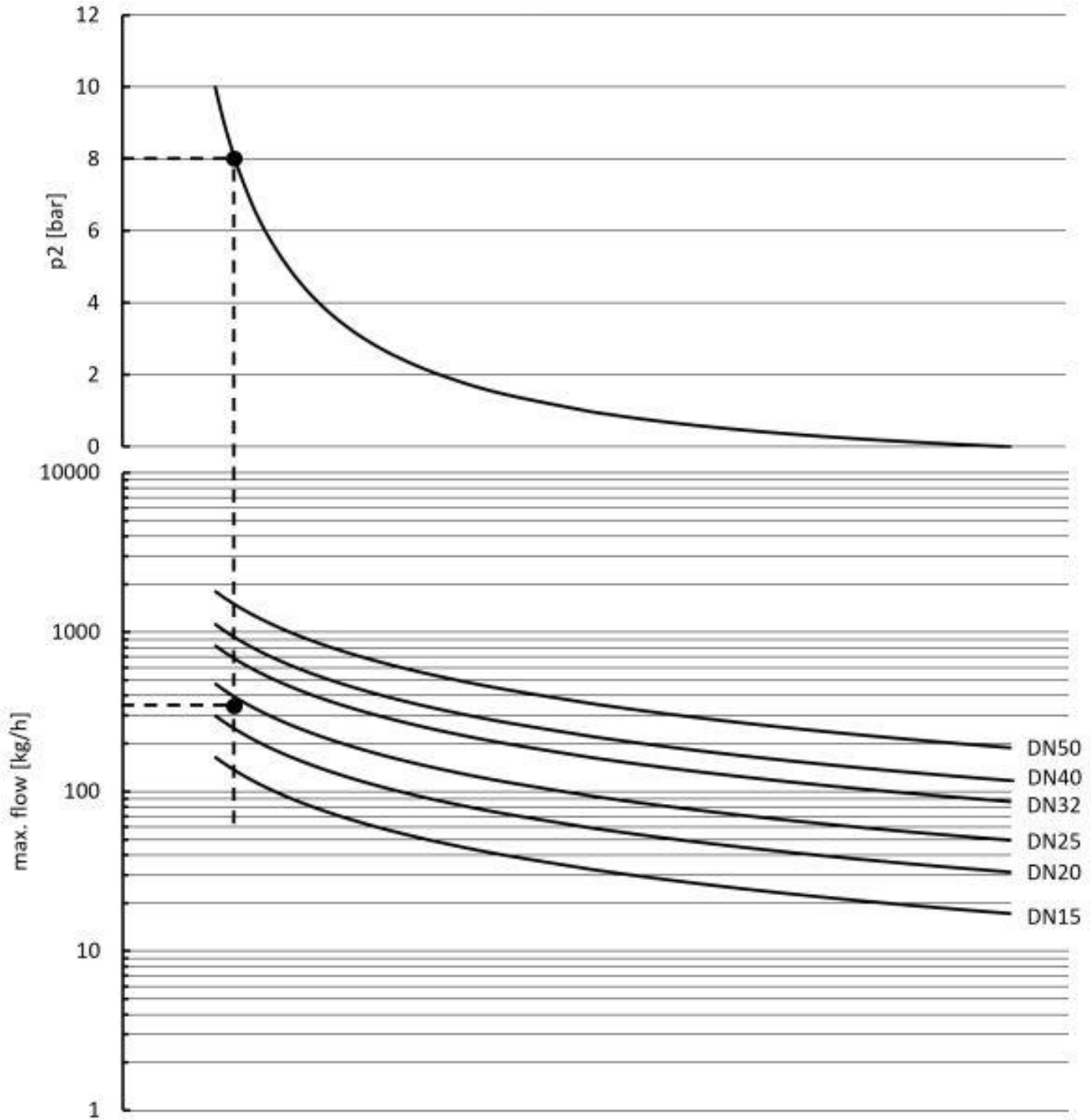
pressure range 0,3 – 2,0 bar:



**Example:**

Selection of a valve for an upstream pressure ( $p_1$ ) of 2,4 and a downstream pressure ( $p_2$ ) of 1,4 bar. The application requires a saturated steam mass flow of 300 kg/h. Sizing according to valve utilization: Entering the criteria shows that a DN40 valve would be sufficient (required capacity is left from the dashed line).

maximum flow velocity:



**Example:**

Selection of a valve for an upstream pressure ( $p_1$ ) of 10 and a downstream pressure ( $p_2$ ) of 8 bar. The application requires a saturated steam mass flow of 350 kg/h. Sizing according to maximum flow rate: Entering the criteria shows that a DN25 valve would be sufficient (curve above the required capacity).

## Article number:

Type	Outlet pressure	Connection	Size
<b>DM21</b> – PTFE / EPDM / FEPM	<b>00</b> – 0,3 up to 2,0 bar <b>01</b> – 2,0 up to 5,0 bar <b>02</b> – 4,0 up to 10,0 bar	<b>00</b> – female thread BSP <b>01</b> – female thread NPT	<b>03</b> – 1/2" <b>04</b> – 3/4" <b>05</b> – 1" <b>06</b> – 1 1/4" <b>07</b> – 1 1/2" <b>08</b> – 2"

### Example No. DM21000103:

**DM21** | **00** | **01** | **03**

Pressure reducing valve made of stainless steel for steam up to 200°C

Outlet pressure: 0,3 up to 2,0 bar

Diaphragm: PTFE / EPDM / FEPM

Connection: female thread NPT

Size: 1/2"

Image similar, subject change without notice.