Steam pressure reducing valve with flanges type DM22

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 outletpressure
- Piston-controlled, spring-loaded pressure relieved single seated valve
- mounting position: any, preferably vertical

Connection:
DN15, DN20, DN25, DN32, DN40, DN50

Subject to PED 2014/68/EU

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

Design:	Piston-pressure reducing valve
Body:	Stainless steel 1.4408
Spring bonnet:	Stainless steel 1.4408
diaphragm:	**TYP DM22** 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:	Flanges acc. To DIN 1092 PN40 (optionally ANSI & JIS Flanges)

Outlet pressure:

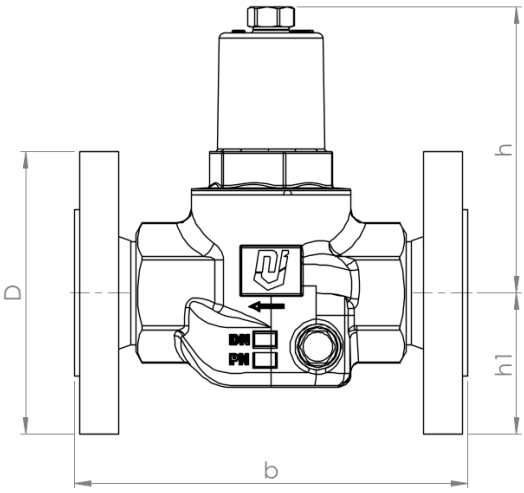
	Outlet pressure	**Inlet pressure**
Spring 00	0,3 bis 2,0 bar	bis 16,0 bar
Spring 01	2,0 bis 5,0 bar	bis 16,0 bar
Spring 02	4,0 bis 10,0 bar	bis 16,0 bar

Minimum pressure difference: Inlet-/outlet pressure 0,3 bar

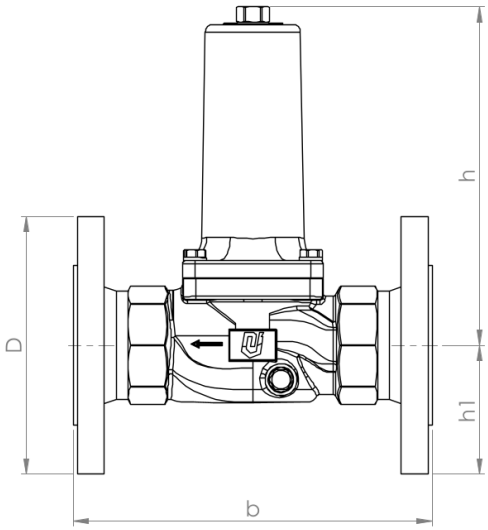
Dimensions:

Diameter DN	15	20	25	32	40	50
Flansch PN40	DN15	DN20	DN25	DN32	DN40	DN50
b	130	150	160	180	200	230
D	95	105	115	140	150	165
h1	48	53	58	70	75	83
h	116	116	116	116	219	219
Kvs-value m3/h	3,6	4,1	5,3	5,6	13,3	14,0
Weight kg	2,9	3,6	4,9	6,2	9,8	11,6
Low pressure design 0,3 - 2,0 bar						
b	130	150	160	180	200	230
D	95	105	115	140	150	165
h1	48	53	58	70	75	83
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	3,8	4,6	5,8	47,0	13,0	14,5

Standard

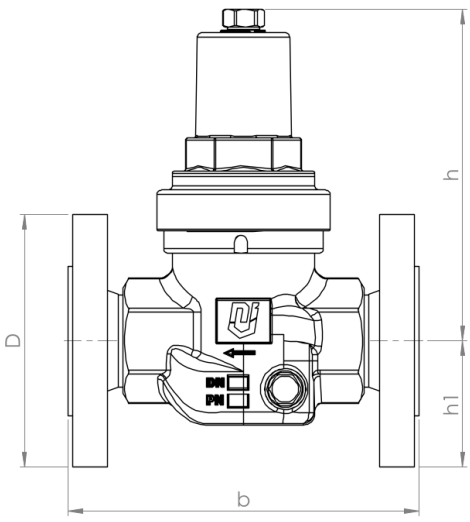


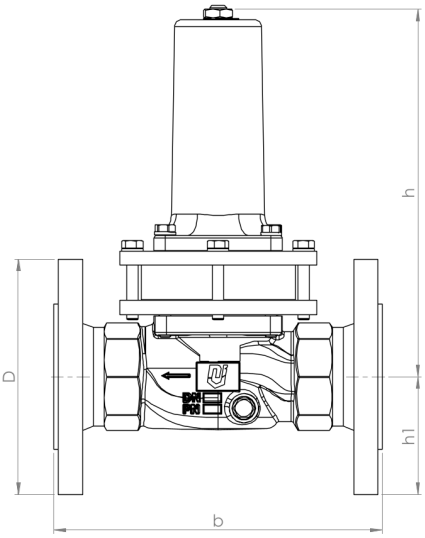
DN15-DN32



DN40-DN50

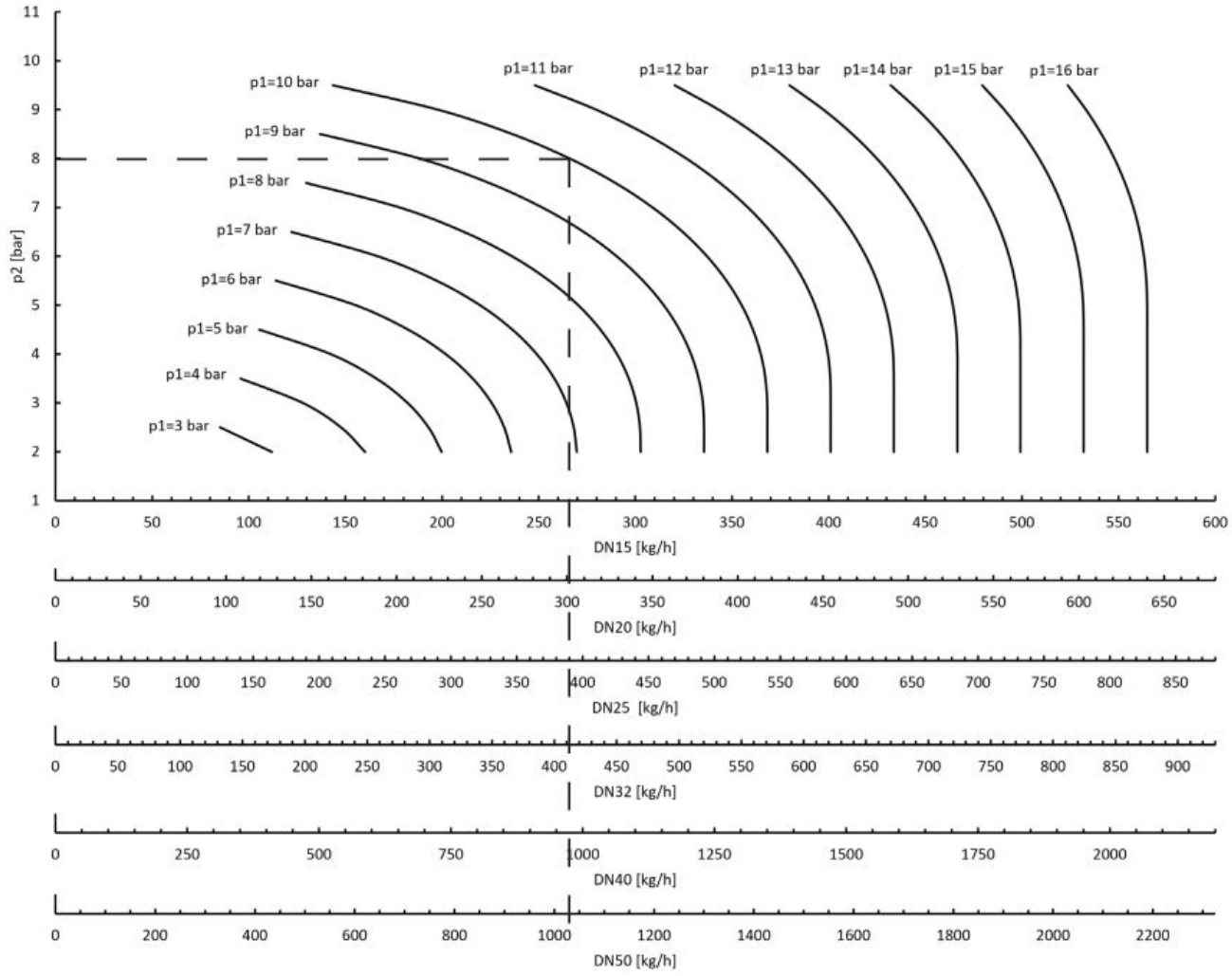
Niederdruck





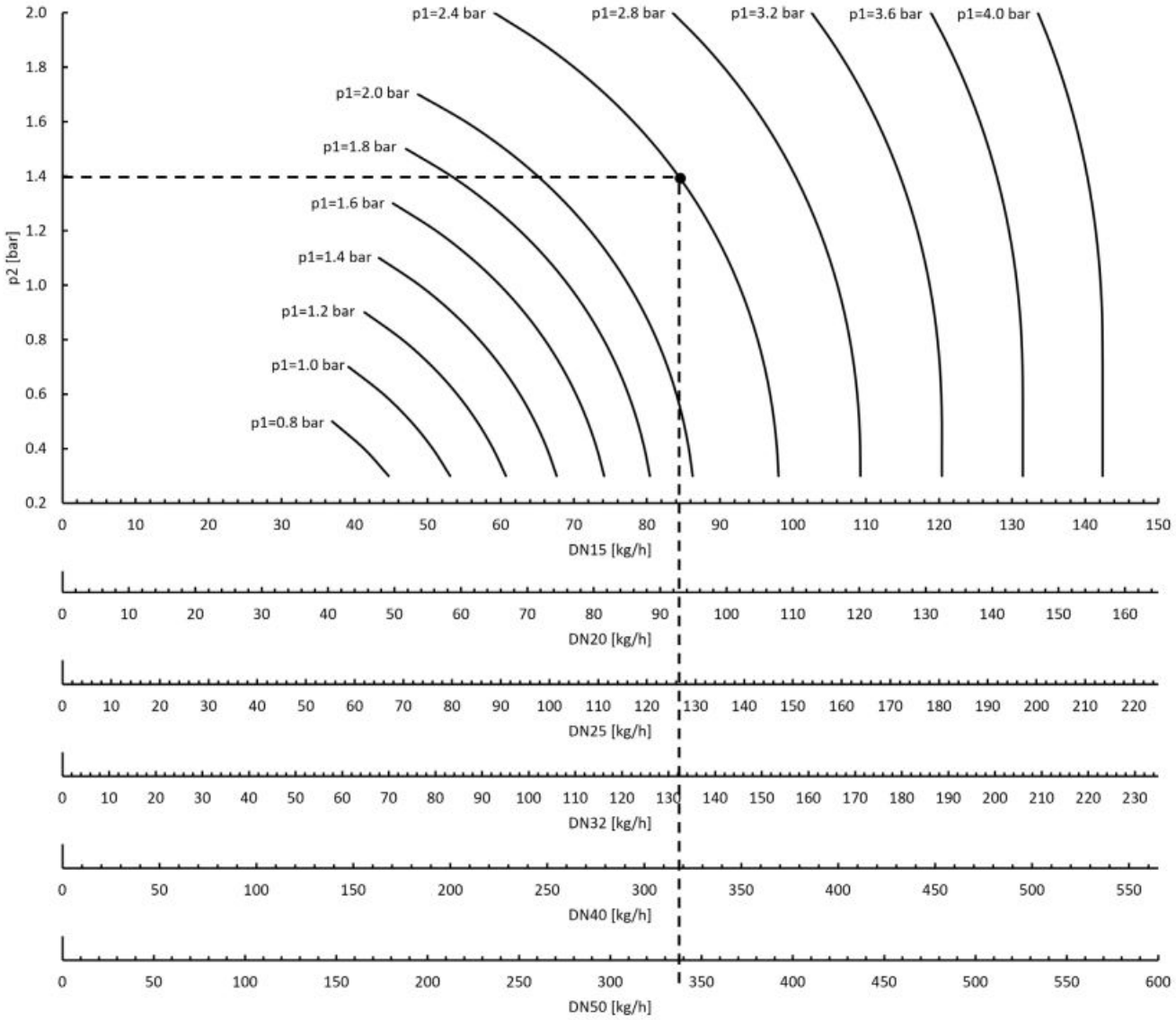
flow-diagram:

pressure range 2-5 & 4-10 bar:



Example:
Selection of a valve for an upstream pressure (p1) of 10 and a downstream pressure (p2) 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).

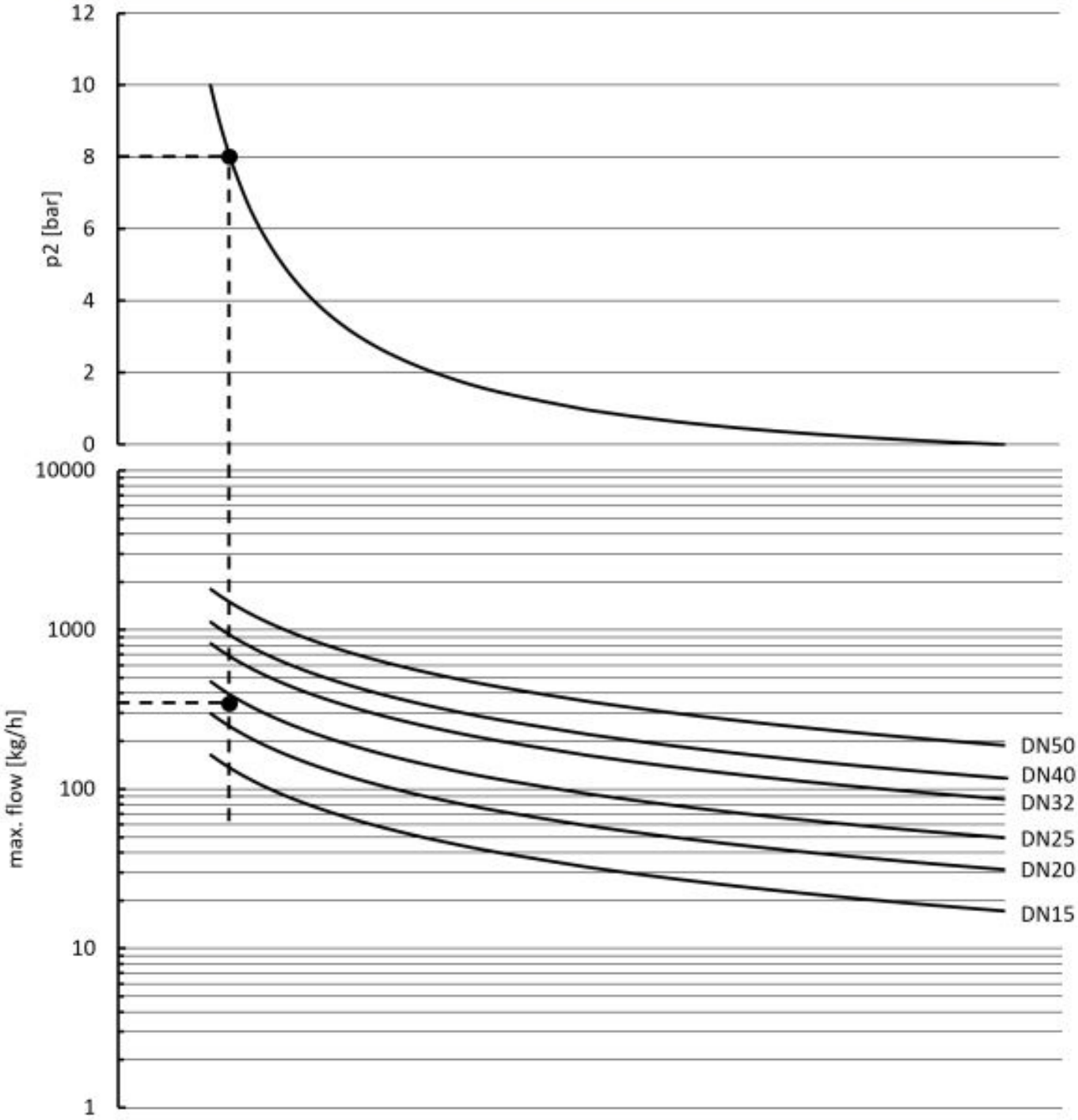
pressure range 0,3 – 2,0 bar:



Example:

Selection of a valve for an upstream pressure (p1) of 2,4 and a downstream pressure (p2) 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 (p1) of 10 and a downstream pressure (p2) 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
DM22 – PTFE / EPDM / FEPM	**00** – 0,3 up to 2,0 bar 01 – 2,0 up to 5,0 bar 02 – 4,0 up to 10,0 bar	00 – flange DIN **01** – flange ANSI	**03** – DN15 04 – DN20 05 – DN25 06 – DN32 07 – DN40 08 – DN50

Example No. DM22000103:

DM22	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:	flange ANSI
Size:	DN15

Image similar, subject change without notice.