m-bar pressure reducing valve DM23 | DM24

Description:

Stainless steel pressure reducing valves are used to regulate the supply pressure in a system, to compensate for different inlet pressures to a certain pressure in the outlet side.

Features:

- suitable for **air & neutral gases**
- suitable for **aggressive water and other aggressive fluids**
- made of stainless steel 1.4408
- double-ended G 1/4" inch manometer fitting (for outlet pressure)
- No limited reduction ratio
- continously adjustable outlet pressure
- assembly position: horizontal, bonnet pointing downwards
- with impulse line connection* G ¼" inch

Connection:	**Temperature:**	**Pressure:**
DN15, DN20, DN25, DN32, DN40, DN50	-30°C to +180°C Depending on design	Inlet pressure: 0,5 to 10,0 bar Range of adjustment: 7 – 500 mbar Depending on design

Subject to PED 2014/68/EU

Design:	diaphragm-controlled pressure reducing valve		
Body:	Stainless steel 1.4408		
Spring bonnet:	Stainless steel 1.4408		
membrane / seal:	**TYPE DM23**	FKM / PTFE	-10°C to +180°C
	TYPE DM24	EPDM**/ PTFE	-30°C to +120°C
Internals:	Stainless steel 1.4404		
Assembly position:	horizontal, bonnet pointing downwards		
Connection:	Female thread acc. ISO 228		
	NPT-thread ASME B1.20.1		
	Flange acc. to DIN EN 1092 PN40		
	Flange acc. to ANSI 150		

Pressure range:	**Range of adjustment**	**Inlet pressure**
spring 00	7 to 100 mbar***	0,5 to 10,0 bar
spring 01	30 to 500 mbar***	0,5 to 10,0 bar
spring 02	50 to 200 mbar	0,5 to 10,0 bar
spring 03	150 to 500 mbar	0,5 to 10,0 bar

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

*An impulse line connection is used to connect an external impulse line. An external impulse line is relevant if there are long cables or significant flow losses behind the pressure reducer, as the pressure at the load could then deviate significiantly from the regulated pressure.
****Note:** Type DM24 with EPDM seal comes with **FDA-conformity**, therefor it can be used for food-applications.
***At pressures below 50 mbar, an external impulse line is strongly recommended to ensure proper functioning

Dimensions:

Diameter DN	15	20	25	32	40	50
Female thread ISO 228 (G)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
b1 in mm	280	280	280	280	330	330
b in mm	95	95	110	120	150	160
h1 in mm	29	29	39	39	37	37
h in mm	261	261	267	267	388	388
Gewicht kg	7,0	7,0	7,8	7,8	15,2	15,1
Flange DIN EN 1092	PN40	PN40	PN40	PN40	PN40	PN40
b1 in mm	280	280	280	280	330	330
b in mm	130	150	160	180	200	230
h1 in mm	48	53	58	70	75	83
h in mm	261	261	267	267	388	388
D in mm	95	105	115	140	150	165
weight kg	8,5	9,3	10,1	11,4	18,9	20,7
kvs-value m3/h of spring 00	2,5	2,5	2,5	2,5	3,0	3,0
kvs-value m3/h of spring 01	2,5	2,5	2,5	2,5	3,0	3,0
kvs-value m3/h of spring 02	4,3	5,5	5,6	6,3	14,9	16,3
kvs-value m3/h of spring 03	4,3	5,5	5,6	6,3	14,9	16,3

With female thread:

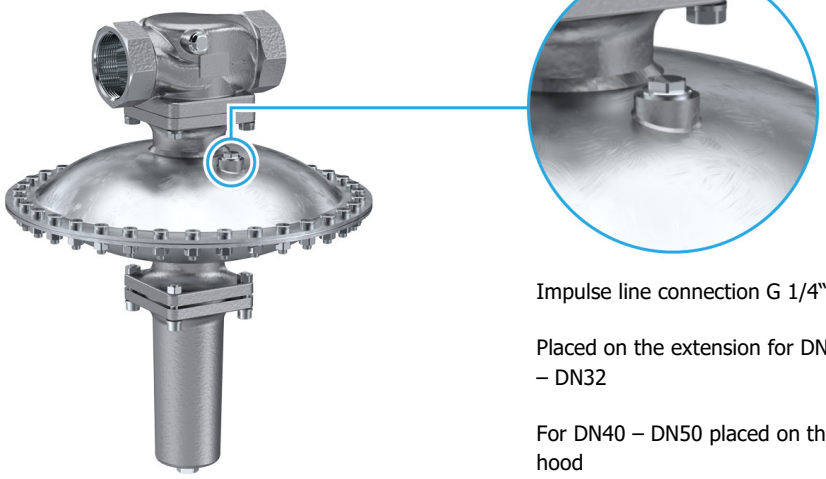
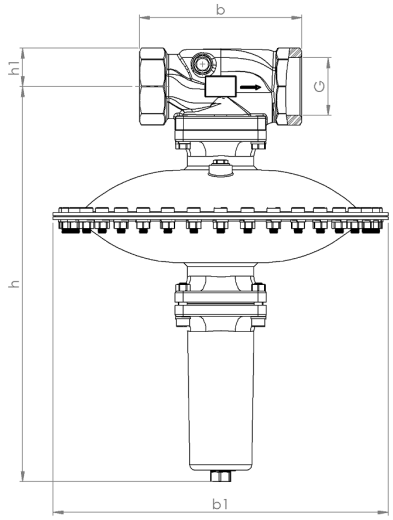


Image: Version DN50

Impulse line connection G 1/4"

Placed on the extension for DN15 – DN32

For DN40 – DN50 placed on the hood



With flange connection:

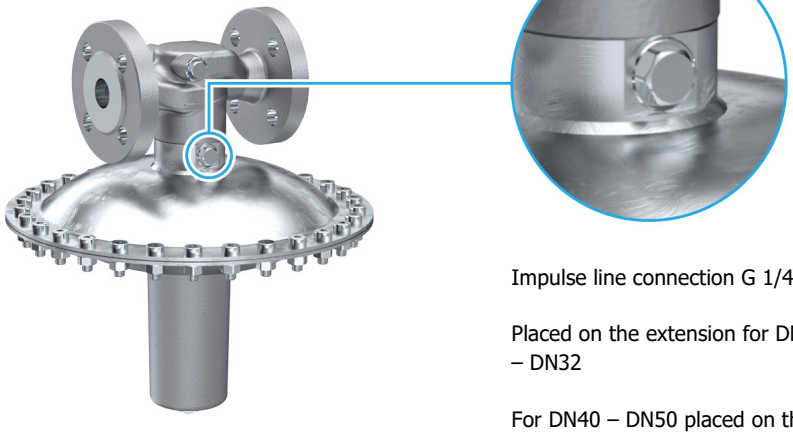
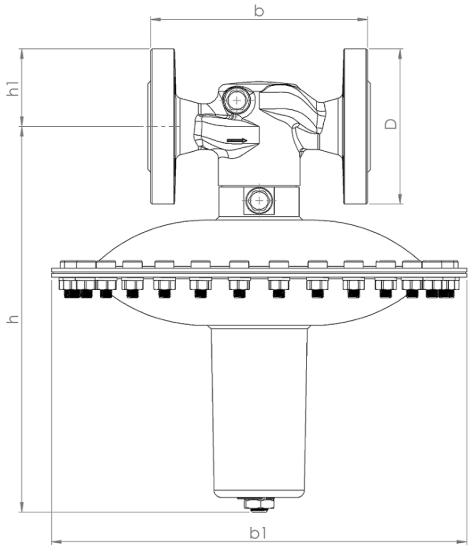


Image: Version DN20

Impulse line connection G 1/4"

Placed on the extension for DN15 – DN32

For DN40 – DN50 placed on the hood



Article number:

Type	Range of adjustment	Connection	Size
DM23 – FPM	**00** – 7 up to 100 mbar	**00** – female thread ISO 228	03 – DN15
DM24 – EPDM	01 – 30 up to 500 mbar	01 – NPT-thread ASME B1.20.1	04 – DN20
	02 – 50 up to 200 mbar	02 – flange DIN EN 1092 PN 40	05 – DN25
	03 – 150 up to 500 mbar	03 – flange ANSI 150	06 – DN32
			07 – DN40
			08 – DN50

Example No. DM13000007:

DM23	**00**	**00**	**07**

Pressure reducing valve made of stainless steel

Range of adjustment:	7 up to 100 mbar
Membrane:	FPM
Connection:	female thread ISO 228
Size:	DN40

Image similar, subject change without notice.