

Climate
Control

IMI Pneumatex

Pressoreduct



Pressure reducer valves

Pressure protection on the supply side in residential and commercial systems DN15 – DN50

Pressoreduct

Pressure reducers are used in piping systems where, despite varying pressures on the inlet side, a certain pressure must not be exceeded on the outlet side. One manometer is included.



Technical description

Application:

Potable water supply.
Drinking water supply systems.
Service water supply in building services engineering.
Machines / plants connected to the drinking water network.
Irrigation technology / Livestock fattening

Functions:

Protection against extreme supply pressures.

Dimensions:

DN 15 - DN 50

Pressure:

SP Standard version
Inlet pressure:
DN 15 - 50 (PN16) up to 16 bar.
Outlet pressure: 1,5 to 7 bar
High and low-pressure (HP and LP) versions available on request.

Temperature:

Max. admissible temperature, TS: +40 °C
Min. admissible temperature, TS_{min}: +5 °C

Media:

For water, neutral and non-sticking liquids, compressed air and neutral gases; optionally with FPM elastomere seals for non-neutral media i.e. oils, fuels, oil-laden compressed air, etc.
Not suitable with steam.

Material:

Body: Gunmetal leadfree CuSn4Zn2PS
Internal parts: PPSU, Stainless Steel 1.4404, EPDM
Spring housing: PA Glass fibre reinforced
Seals: EPDM
Filter: POM + Stainless Steel 1.4404
Mesh size: 160 µm

Approvals:

Constructed according to DIN EN 1567, DIN 1988, DIN EN ISO 3822 and PED 2014/68/EU.
DIN-DVGW type examination
Type approval ACS
Type approval WRAS
TR ZU 032/2013 - TR ZU 010/2011
DIN EN 1567
DIN 4109
UBA BWGL für metallene Werkstoffe
DVGW W270

Marking:

DN, material, and flow direction arrow.
Label with technical specification, place of origin and CE.

Warranty:

2-year warranty

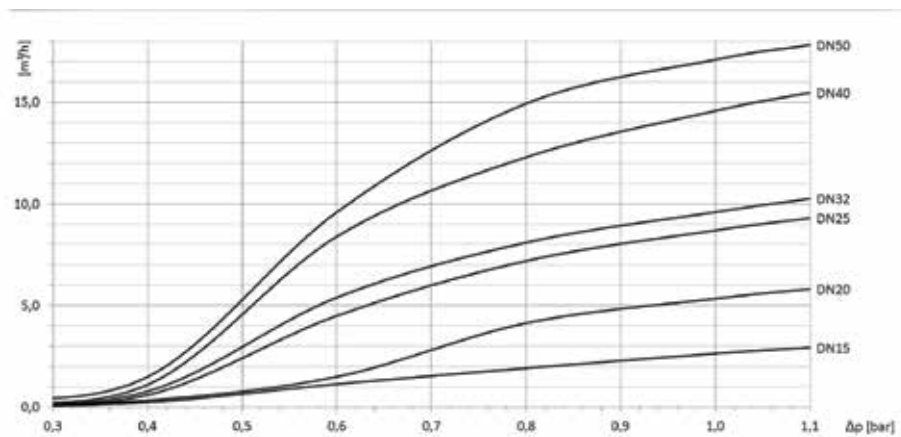
Dimensioning

Dimensioning by pressure loss on the outlet pressure side

Flow chart water

DN 15 - 50

Flow rate V in [m³/h]



Pressure drop Δp [bar]

Dimensioning by flow velocity

For liquids:

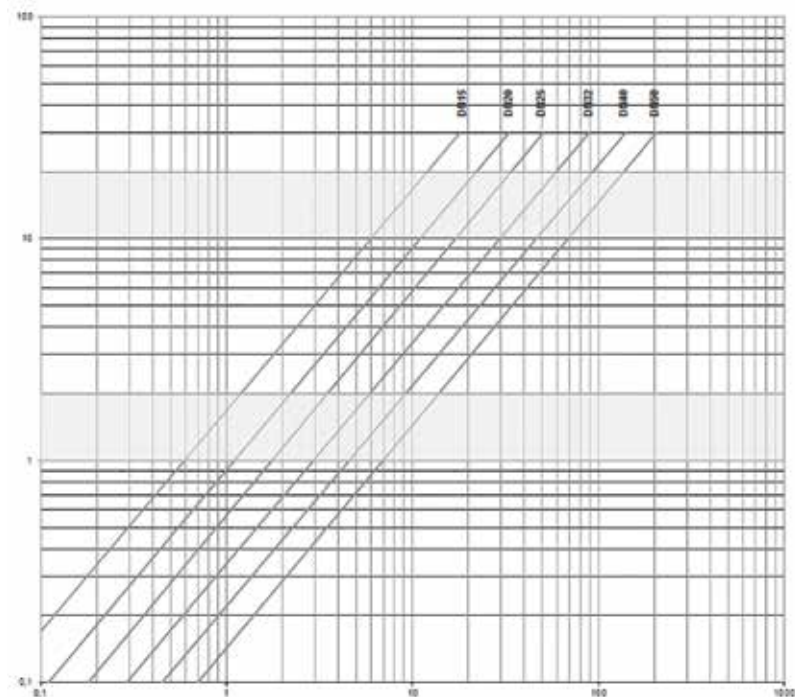
Using this chart you can determine the nominal diameter (DN) for a given flow volume V (m³/h).

According to DVGW-guidelines (DIN 1988) a flow velocity of 2 m/s in domestic water supply systems should not be exceeded.

$$V \text{ (m³/h)} = \frac{V_{\text{Norm}} \text{ (Nm³/h)}}{p_{\text{absolut}} \text{ (bar)}} = \frac{V_{\text{Norm}}}{p_U + 1}$$

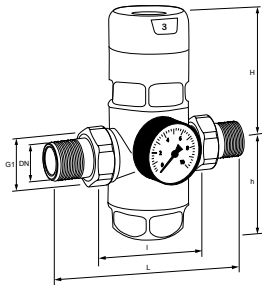
Actual cubic meter values are based on the prevailing pressure of the medium on the outlet side of the pressure reducer

Flow velocity c [m/s]



Flow volume V [m³/h]

Articles



External thread

Outlet pressure 1,5-7 bar

DN	G1	L	I	h	H	m	SW1	Flow coefficient K_{vs}^{**} m³/h	EAN	Article No
15	1/2	136	80	58	89	0,8	30	3,4		301052-00431
20	3/4	152	90	58	89	0,9	37	4,4		301052-00531
25	1	170	100	64	111	1,7	46	9,3		301052-00631
32	1 1/4	191	105	64	111	1,9	52	10,5		301052-00731
40	1 1/2	220	130	94	151	3,9	65	19,5		301052-00831
50	2	254	140	94	151	4,5	75	20,5		301052-00931

*) Inlet EN 10226

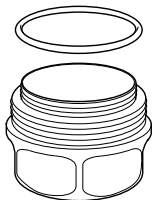
**) The K_{vs} value was determined according to EN 60534-2-3. Instructions on how to determine size and capacity are to be found in the graphs.

Accessories



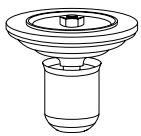
Screen insert 160 µm

DN	EAN	Article No
15-20	4260674340789	304010-80500
25-32	4260674340932	304010-80700
40-50	4260674341052	304010-80900



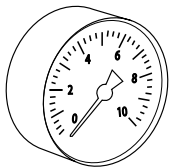
Filter Screen cup with O ring

DN	EAN	Article No
15-20	4260674340796	304010-80501
25-32	4260674340949	304010-80701
40-50	4260674341069	304010-80901



Valve insert with grooved ring

DN	EAN	Article No
15-20	4260674340734	304010-80502
25-32	4260674340895	304010-80702
40-50	4260674341014	304010-80902



Manometer

Display range 0-10 bar

DN	Pressure Range	EAN	Article No
15-50	1-10 bar	4260674340826	304010-80903