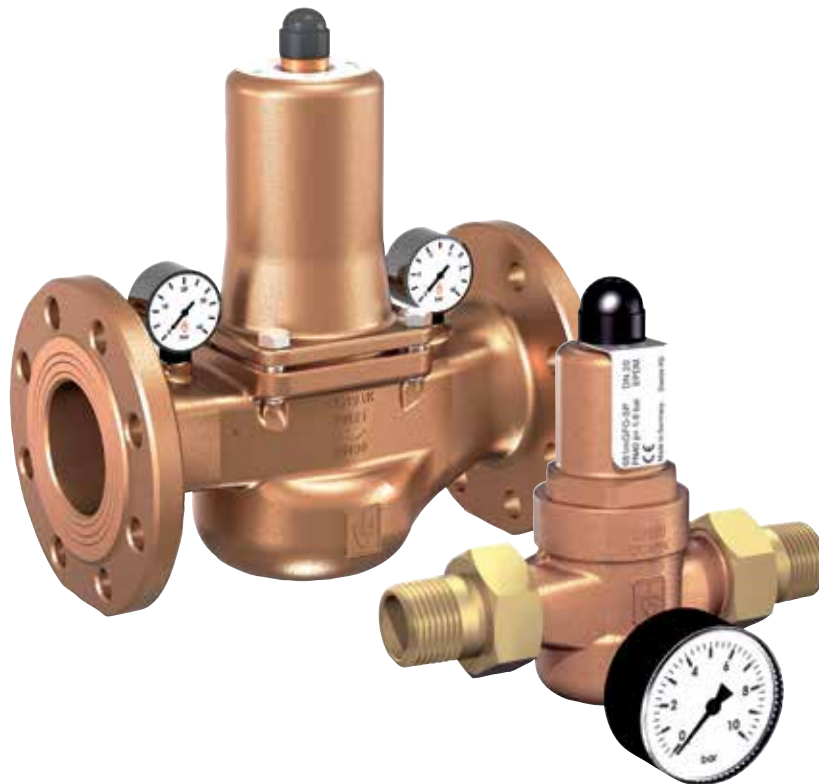


**Climate  
Control**

**IMI Pneumatex**

## Pressoreduct HP

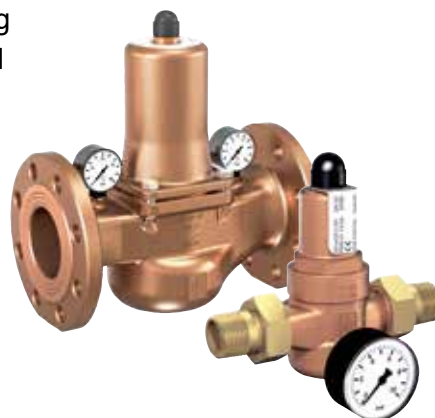


### **Pressure reducer valves**

Pressure protection on the supply side in domestic, commercial and industrial systems DN15 – DN100

## Pressoreduct HP

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 with the threaded version.



### Technical description

#### Application:

Potable water supply according to DIN 1988  
Process water supply in industrial and building technology  
Snow-making equipment  
Fire-fighting equipment and sprinkler systems  
Shipbuilding industry and offshore plants

#### Functions:

Protection against extreme supply pressures.

#### Dimensions:

DN 15 - DN 100

#### Pressure:

SP Standard version  
Inlet pressure:  
DN 15 - 50 (PN40) up to 40 bar,  
DN 65 - 100 (PN16) up to 16 bar.  
Outlet pressure:  
1 to 8 bar  
High and low-pressure (HP and LP)  
versions available on request.

#### Temperature:

Max. admissible temperature, TS: 120 °C  
Min. admissible temperature, TS<sub>min</sub>: -20 °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 CC499K. Stainless steel version available on request.  
Internal parts: Gunmetal CC499K, Stainless Steel 1.4404  
Spring: Spring steel with anti-rust protection 1.1200  
Seals: EPDM  
Strainer: Stainless Steel 1.4404.  
Mesh size DN 15 to DN 32 0,6 mm  
DN 40 and up 0,75 mm

#### Approvals:

Constructed according to DIN EN 1567, DIN 1988, DIN EN ISO 3822 and PED 2014/68/EU.  
DIN-DVGW type examination (up to 80°C)  
Type approval ACS  
Type approval WRAS (up to 85°C)  
TR ZU 032/2013 - TR ZU 010/2011

#### Marking:

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

#### Warranty:

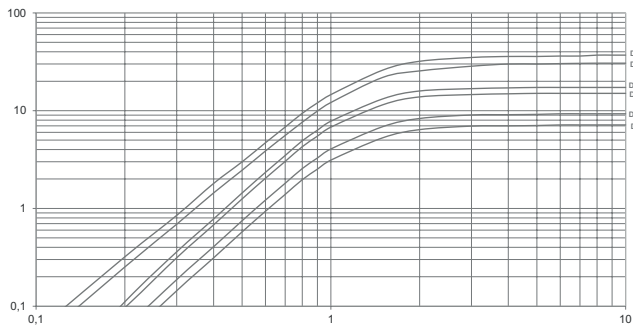
2-year warranty

## Dimensioning

Dimensioning by pressure loss on the outlet pressure side

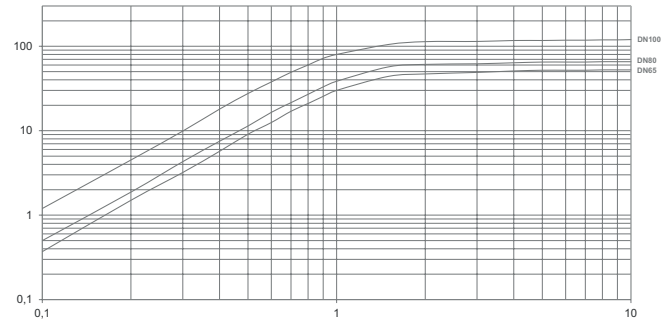
Flow chart water

**DN 15 - 50** Flow rate V in [m³/h]



Pressure drop  $\Delta p$  [bar]

**DN 65 - 100** Flow rate V in [m³/h]



Pressure drop  $\Delta p$  [bar]

### Dimensioning by flow velocity

For liquids:

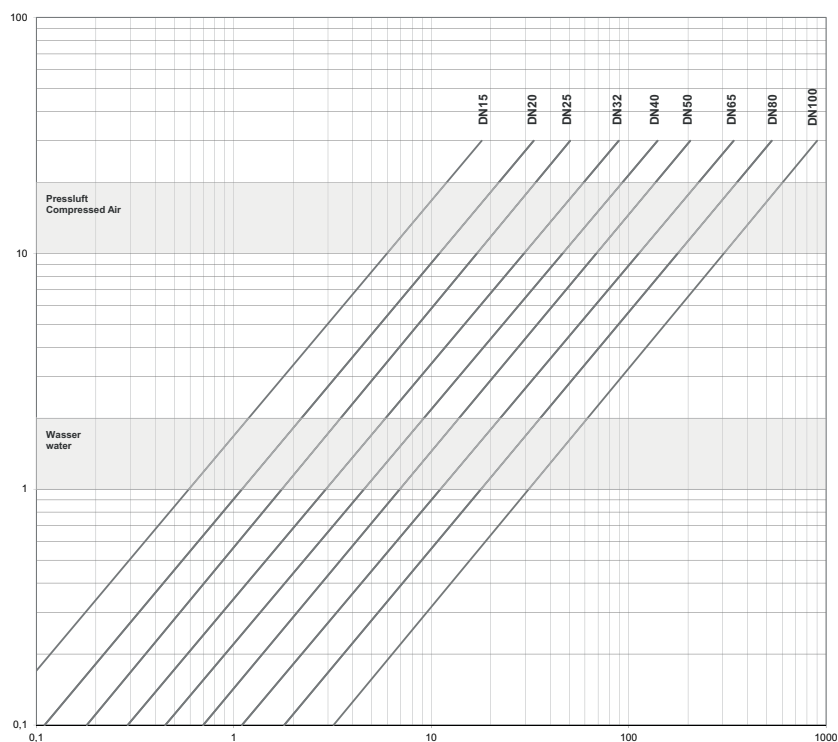
Using this chart you can determine the nominal diameter (DN) for a given flow volume V (m³/h).

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

$$V \text{ (m}^3\text{/h)} = \frac{V_{\text{Norm}} \text{ (Nm}^3\text{/h)}}{p_{\text{absolut}} \text{ (bar)}} = \frac{V_{\text{Norm}}}{p_U + 1}$$

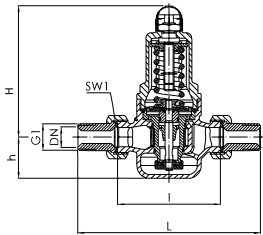
Actual cubic meter values are based on the prevailing pressure of the medium on the outlet side of the pressure reducer

Flow velocity c [m/s]



Flow volume V [m³/h]

## Articles

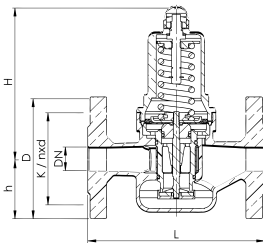


### External threads

Inlet pressure 40 bar

Outlet pressure 1-8 bar

DN	G1	L	I	h	H	m [kg]	SW1	Coefficient of flow $K_{vs}^{**}$ m <sup>3</sup> /h	EAN	Article No
15	1/2	142	80	33	102	1,2	30	3		301052-00400
20	3/4	158	90	33	102	1,3	37	3,5		301052-00500
25	1	180	100	45	130	2,4	46	6,7		301052-00600
32	1 1/4	193	105	45	130	2,6	52	7,6		301052-00700
40	1 1/2	226	130	70	165	5,5	65	12,5		301052-00800
50	2	252	140	70	165	6,0	75	15		301052-00900



### Flanged

Inlet pressure SP, HP up to 16 bar

Outlet pressure 1-8 bar

DN	D	L	m [kg]	h	H	K/nxd	Coefficient of flow $K_{vs}^{**}$ m <sup>3</sup> /h	EAN	Article No
65	185	290	20	89	235	145 / 4xM16	25		301052-01000
80	200	310	22	96	235	160 / 8xM16	26		301052-01100
100	200	350	40	102	320	180 / 8xM16	80		301052-01200

\*) Inlet DIN EN 10226

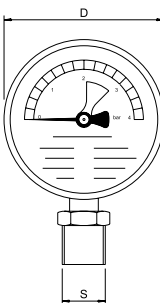
\*\*) The  $K_{vs}$  value was determined according to DIN EN 60534-2-3. Instructions on how to determine size and capacity are to be found in the graphs.

## Accessories



### Valve insert

DN	Article No.
65	301052-01010
80	301052-01110
100	301052-01210



### Manometer

Display range 0-10 (0-25) bar, with green marking indicating working pressure range.

DN	Pressure Range	Article No.
15-50	0-10 bar	301052-00420
65/80	0-25 bar	301052-01020
100	0-25 bar	301052-01220