

Venturi orifice with pressure ports for ΔP measurement

- For flow verification of ZoneTight PIFLV
- For closed cold and warm water systems
- Low pressure drop across the valve
- Manufactured in DZR brass



Picture may differ from product

Type Overview

Type	DN	Rp ["]	Kvs [m ³ /h]	PN
A.PT15.10	15	1/2	0.82	25
A.PT15.11	15	1/2	1.56	25
A.PT15.12	15	1/2	2.44	25
A.PT15.13	15	1/2	3.43	25
A.PT20.14	20	3/4	3.28	25
A.PT20.15	20	3/4	4.45	25
A.PT20.16	20	3/4	6.03	25
A.PT25.17	25	1	9.84	25

Technical data

Functional data	Pipe connection	Internal and external thread according to ISO 228-1
	Installation orientation	upright to horizontal
	Servicing	maintenance-free
Materials	Valve body	Brass
	Spindle	Brass
	O-ring	EPDM

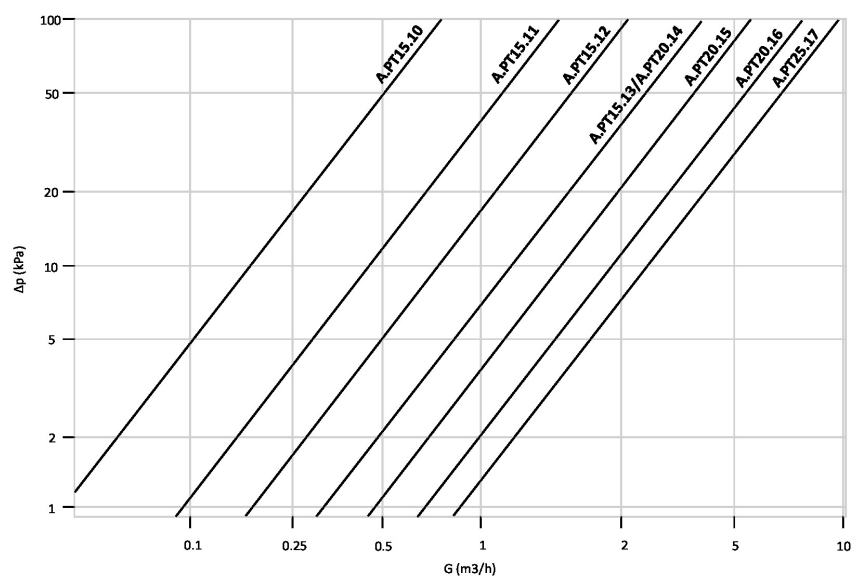
Safety notes



- This accessory has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The accessory may not be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.

Product features

- Operating mode** The venturi orifice is equipped with two pressure ports for ΔP measurement by means of differential manometers.
- Connect manometer high pressure line to red PT port; connect low pressure line to blue PT port.

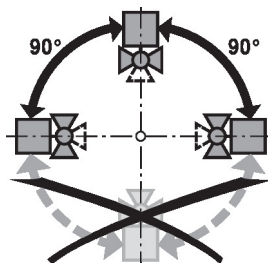
Product features
Flow rate curves


Application Venturi selection is based on flow rate and differential pressure values. The value should be high enough to be read by the differential manometer, and it should not exceed a certain value in order to reduce the overall pressure losses.

Type	PIFLV	PIFLV flow rate [l/s]
A.PT15.10	C215QFLH-C	0.08
A.PT15.11	C215QFLH-D	0.13
	C215QFLH-E	0.18
A.PT15.12	C215QFLH-F0	0.26
A.PT15.13	C215QFLH-F	0.36
A.PT20.14	C220QFLH-F6	0.33
	C220QFLH-G0	0.42
A.PT20.15	C220QFLH-G	0.52
A.PT20.16	C220QFLH-H0	0.65
A.PT25.17	C225QFLH-H	0.81
	C225QFLH-J	1.00

Installation notes

Permissible installation orientation The valve can be installed upright to horizontal. The valve may not be installed in a hanging position, i.e. with the spindle pointing downwards.

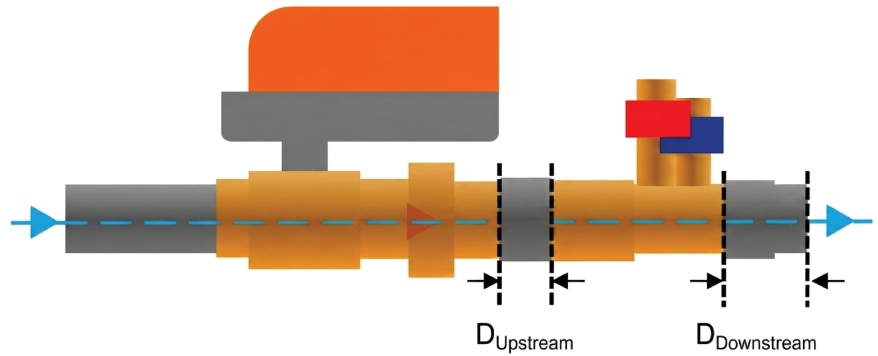


Installation notes

Installation situation Installation in the return is recommended. The venturi orifice is recommended to be installed after the PIFLV.

There is no additional straight pipe required for stable flow measurement between the PIFLV and the venturi orifice.

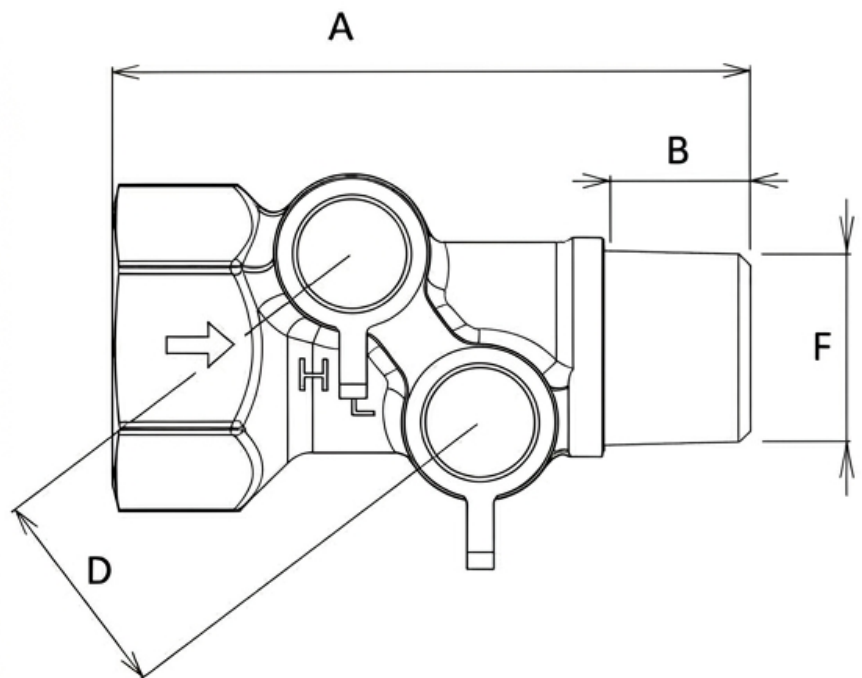
A straight pipe is required only on the downstream side of the venturi orifice. The required lengths are as follows: 30 mm for DN15 and DN20, and 36 mm for DN25.



Water quality requirements The water quality requirements specified in VDI 2035 must be adhered to.

Flow direction The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the flow rate will be measured incorrectly.

Dimensions



Type	DN	Rp ["]	A [mm]	B [mm]	D [mm]	F ["]	Venturi Diameter [mm]	
A.PT15.10	15	1/2	70	17.5	23	1/2	4.25	0.28
A.PT15.11	15	1/2	70	17.5	23	1/2	6	0.27
A.PT15.12	15	1/2	70	17.5	23	1/2	7.5	0.27
A.PT15.13	15	1/2	70	17.5	23	1/2	9	0.27
A.PT20.14	20	3/4	70	16	23	3/4	9	0.25
A.PT20.15	20	3/4	70	16	23	3/4	10.5	0.25
A.PT20.16	20	3/4	70	16	23	3/4	12	0.25
A.PT25.17	25	1	85	22	23	1	14.5	0.39