



**PN 16 - DN 80**

KAT-A 1914



**Product characteristics and benefits**

- With flange end acc. to EN 1092-2
- Single chamber air valve in compact design
- High discharge capacity for large quantities of air
- Triple function air valve
- Venting function:
  - Large orifice to vent high quantities of air during draining the pipeline
  - Large orifice to release high quantities of air during filling the pipeline
  - Small orifice to release low quantities of air during operation under pressure
- Minimum operation pressure: 0.3 bar
- Sturdy, stainless steel jacket pipe for underground installation (above-ground or underground installation in a special surface box)
- High cost savings due to chamber-less installation
- Jacket pipe can be shortened by 100 mm on site
- With VAG DUOJET® Automatic Air Valve DN 50 - PN 16

**Tests and approvals**

- Final inspection test acc. to EN 12266 (DIN 3230 Part 4)

**Note**

For proper installation and safe operation please follow the installation and operation instructions:

“Installation and Operating Instructions for Valves”

**Materials**

- Inner parts: Stainless steel 1.4571
- Float: Plastic
- Sealing: EPDM
- Body VAG DUOJET® Automatic Air Valve: Ductile cast iron EN-JS 1030 (GGG-40)
- Protective jacket pipe: Stainless steel 1.4541
- Bonnet of protective jacket pipe: Corrosion resistant aluminium alloy

**Corrosion protection**

- Cast iron parts: Epoxy coating

**Versions**

- Standard version as described
- For pressures of 0.1...1 bar special seal (with special sealing). Please specify operating pressure when inquiring/ordering.

**Field of Application**

- Underground installation

**Field of application**

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
80	16	16	50

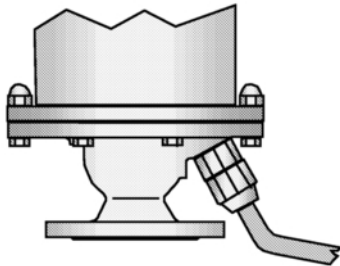
**Pressure test acc. to EN 12266**

Test pressure body with water [bar]	Test pressure seat with water [bar]
24	16

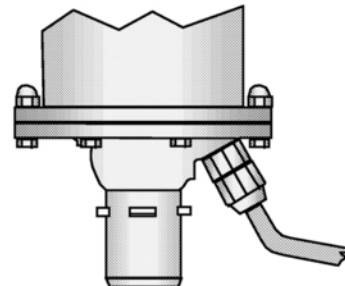


**Drawing**

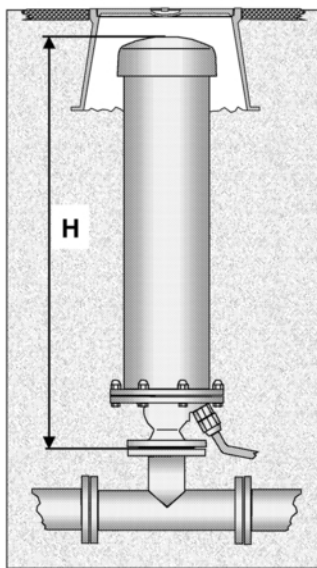
Standard connection with DN 80 flange



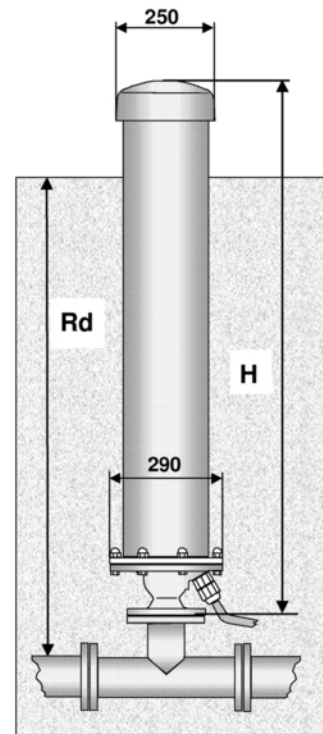
Standard connection with BAIO<sup>®</sup>plus System spigot end



Underground installation



Above-ground installation



**Technical data**

**PN 16**

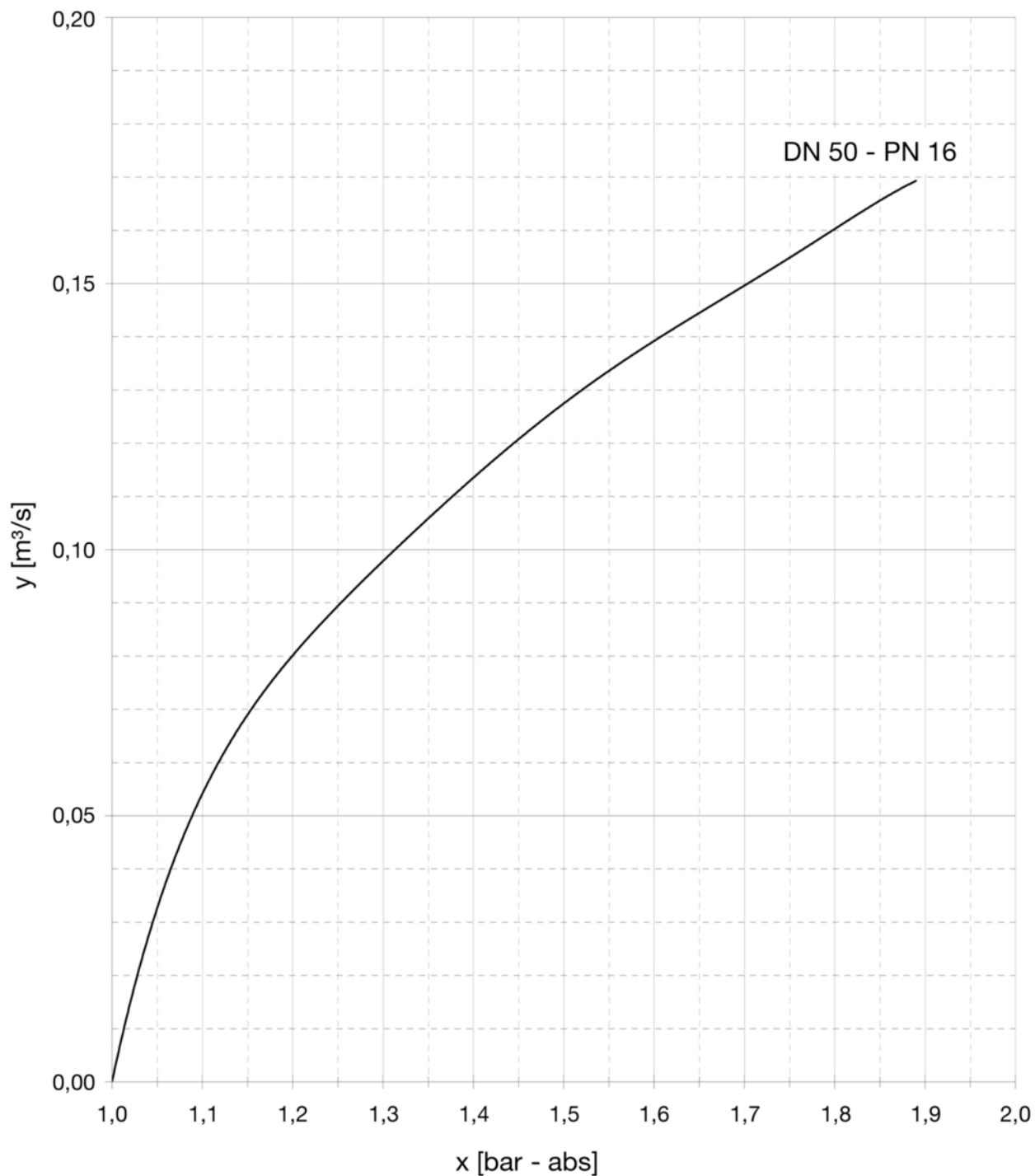
DN	80	80	80	80
Installation height H [mm]	795	1045	1295	1545
Installation depth [m] underground Rd	1.00	1.25	1.50	1.75
Installation depth [m] above ground Rd	0.75	1.00	1.25	1.50
Weight approx. [kg]	44.00	48.00	52.00	56.00



Further information

Rate of air release during filling the pipeline

large orifice



x: Internal pressure p [bar - absolute]

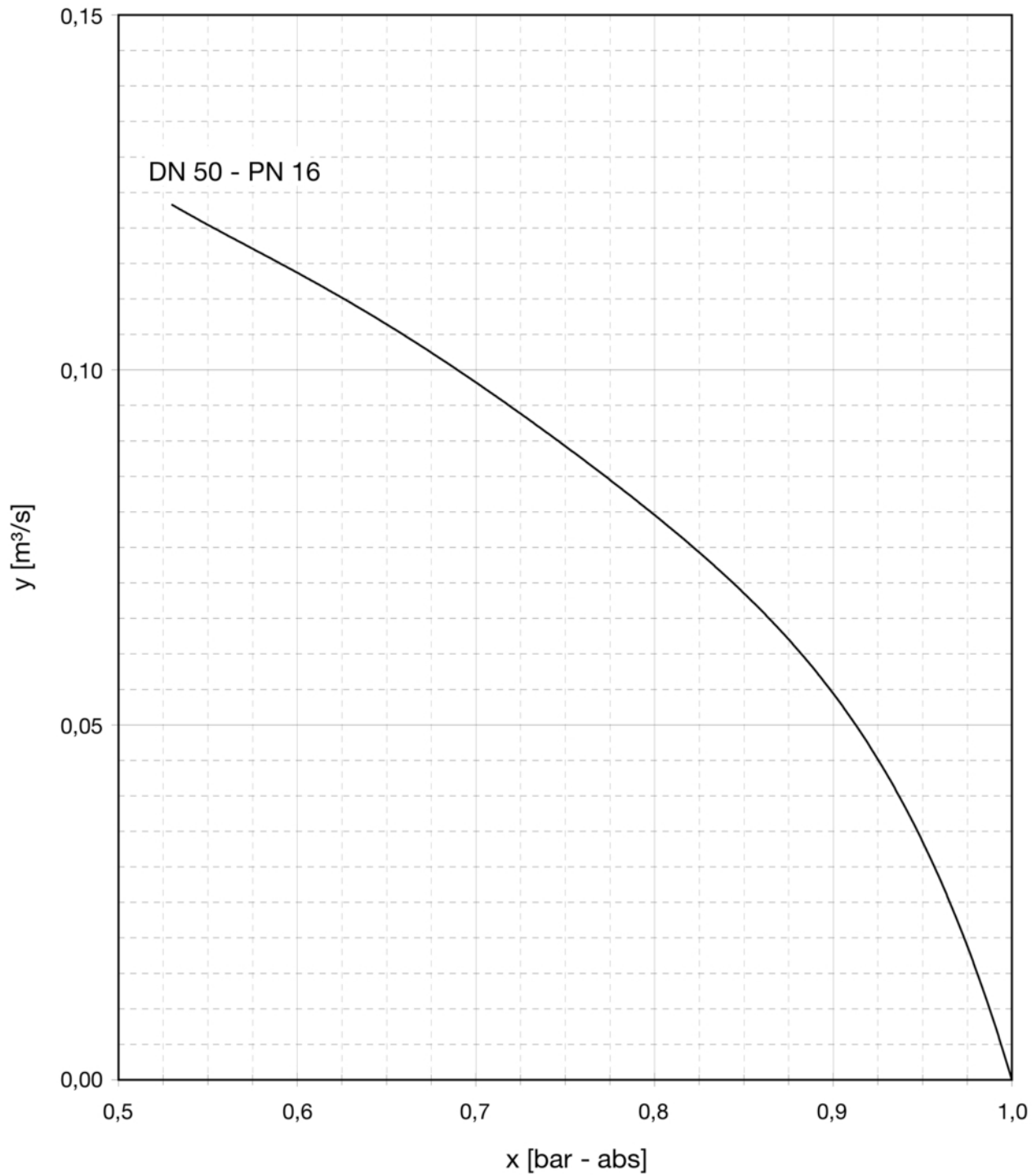
y: Air release rate Q [m³/s]



## Further information

## Rate of air intake in dependence of the operating pressure

large orifice



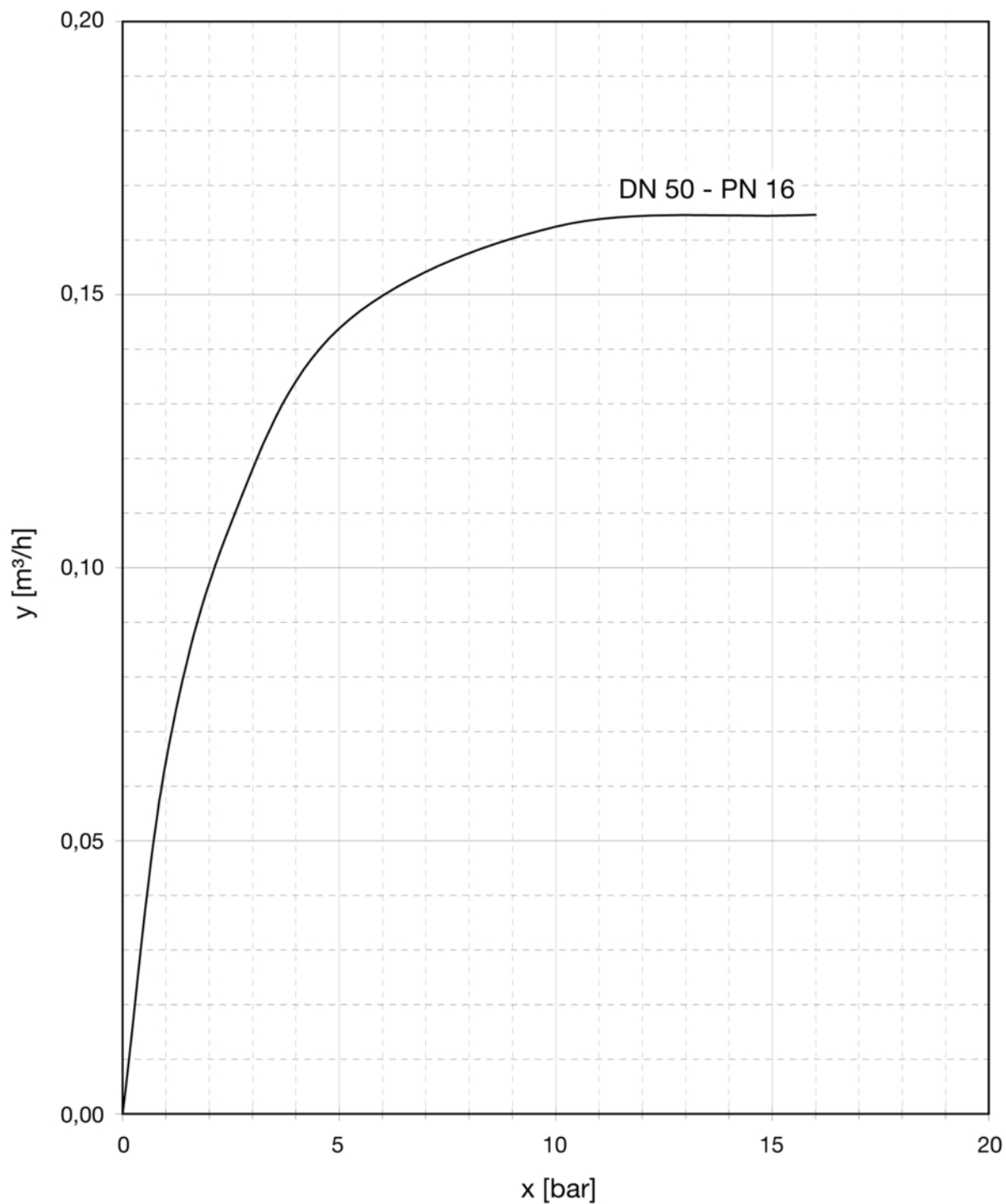
x: Internal pressure p [bar - absolute]  
y: Air inflow rate Q [m³/s]



Further information

Rate of air release at full internal operating pressure

small orifice



x: Operating pressure  $p$  in pipeline [bar]

y: Air release rate  $Q$  [ $\text{m}^3/\text{h}$ ]