


PN 16 - DN 80

KAT-A 1914-BAIO

Product characteristics and benefits

- With spigot end connection to connect to VAG BAIO®*plus* System parts
- Type of Air Valve 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
- Corrosion-resistant due to boltless connection
- Pull-out proof due to positive connection and friction-locked connection
- Short assembly times due to easy assembly or disassembly
- Stress-free laying due to flexibility of inclination up to +/- 3°
- 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

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)
- Jacket pipe: Stainless steel 1.4541
- Bonnet of 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


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"

Field of application

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

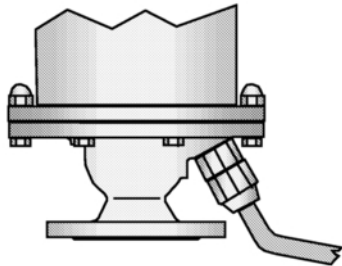
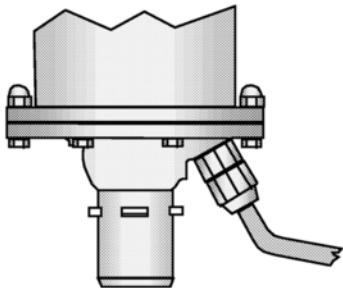
Pressure test acc. to EN 12266

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

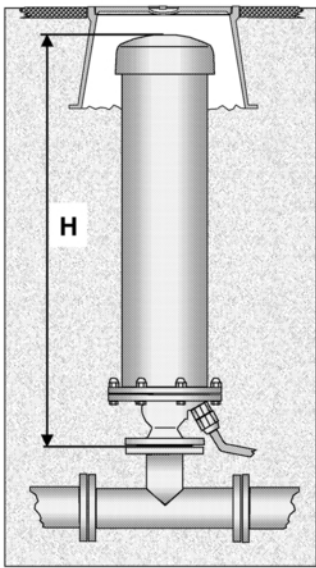


Drawing

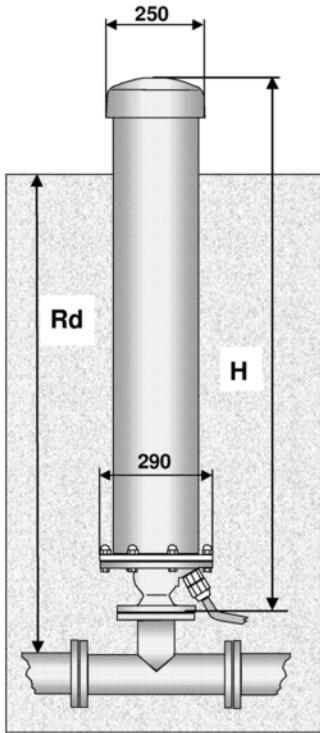
Standard connection with BAIO®*plus* System spigot end Special type with DN 80 flange



Underground installation



Above-ground installation



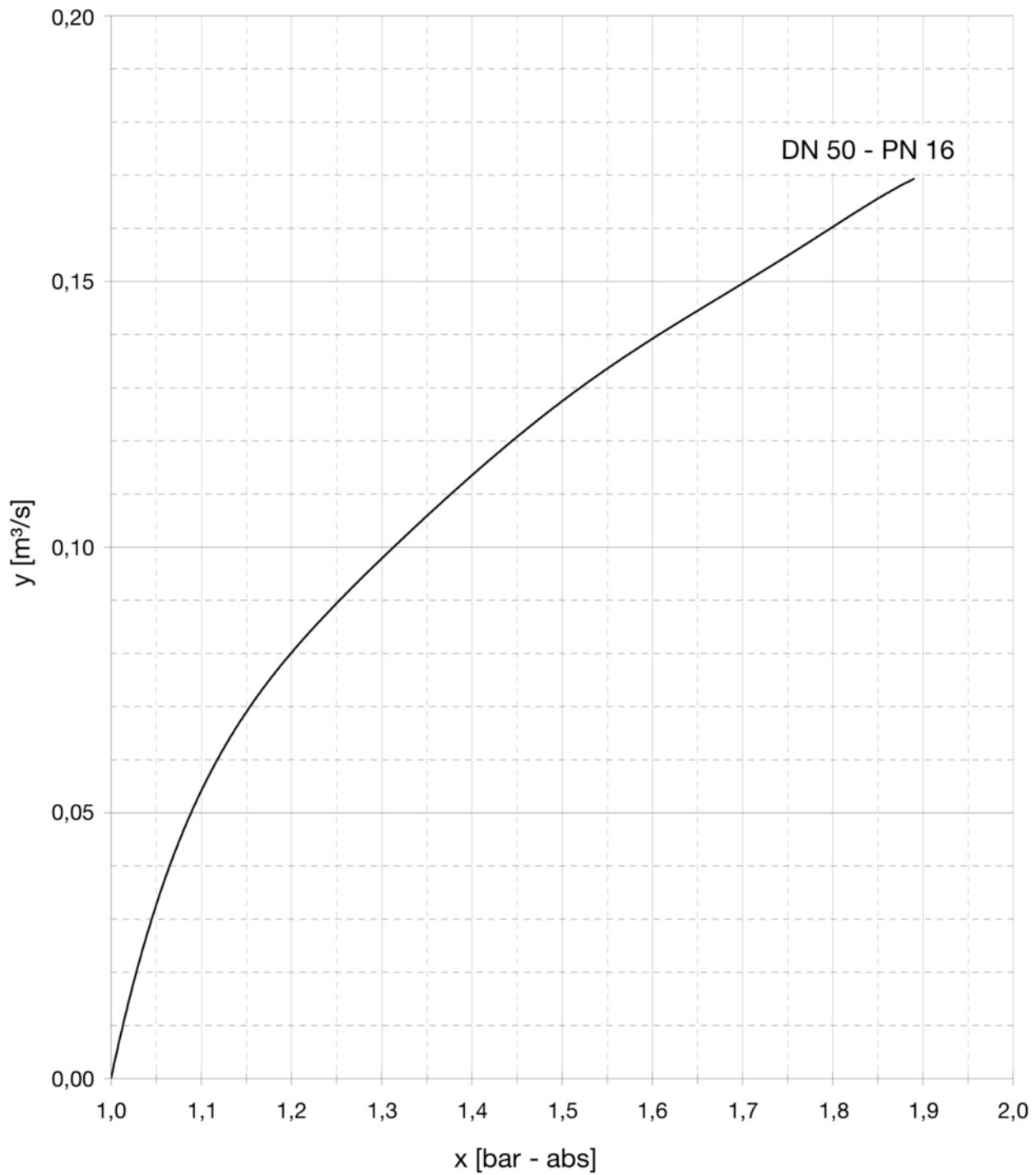
Technical data

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

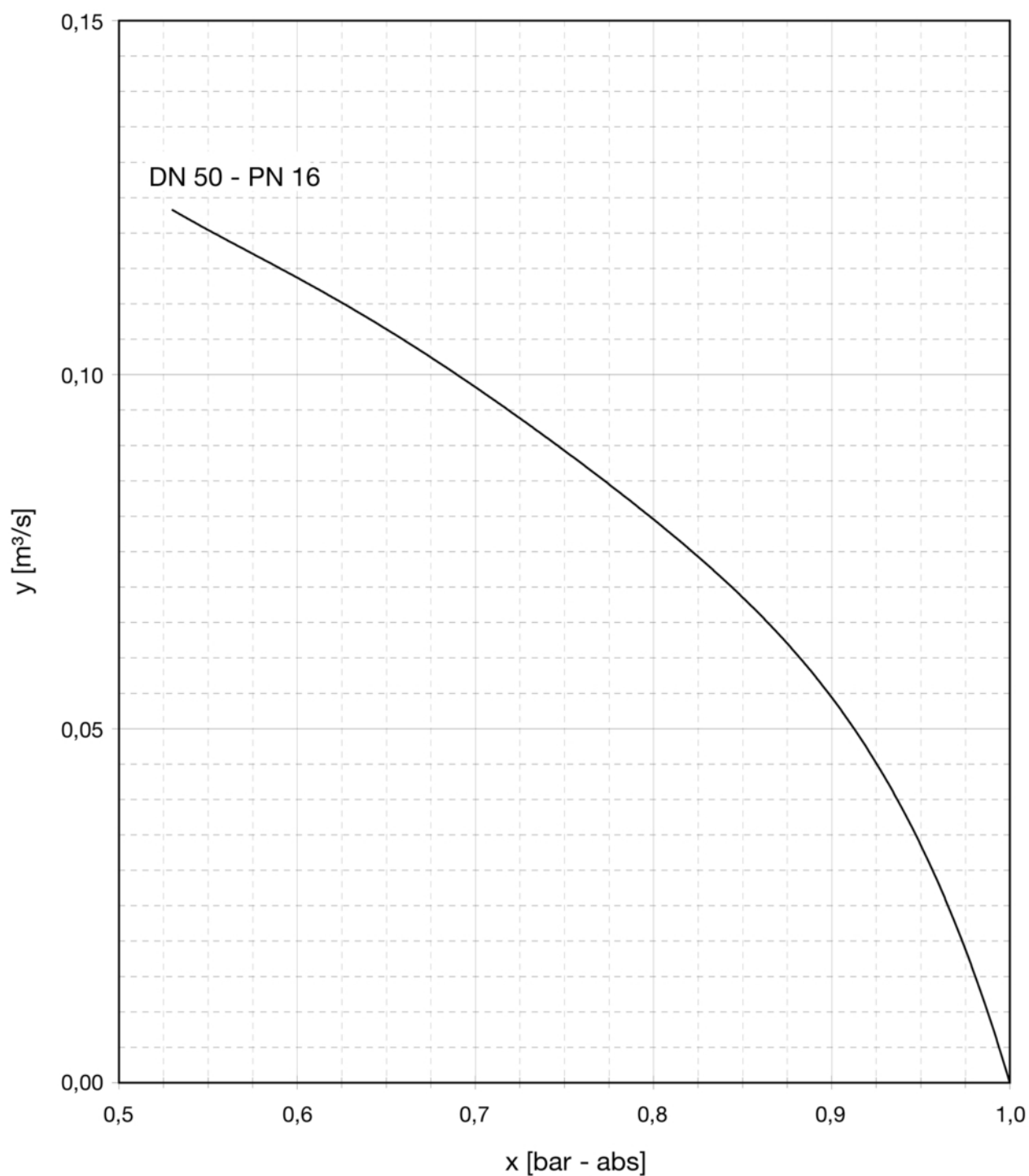
**x: Internal pressure p [bar - absolute]****y: Air release rate Q [m^3/s]**



Further information

Rate of air intake in dependence of the operating pressure

large orifice



x: Internal pressure p [bar - absolute]

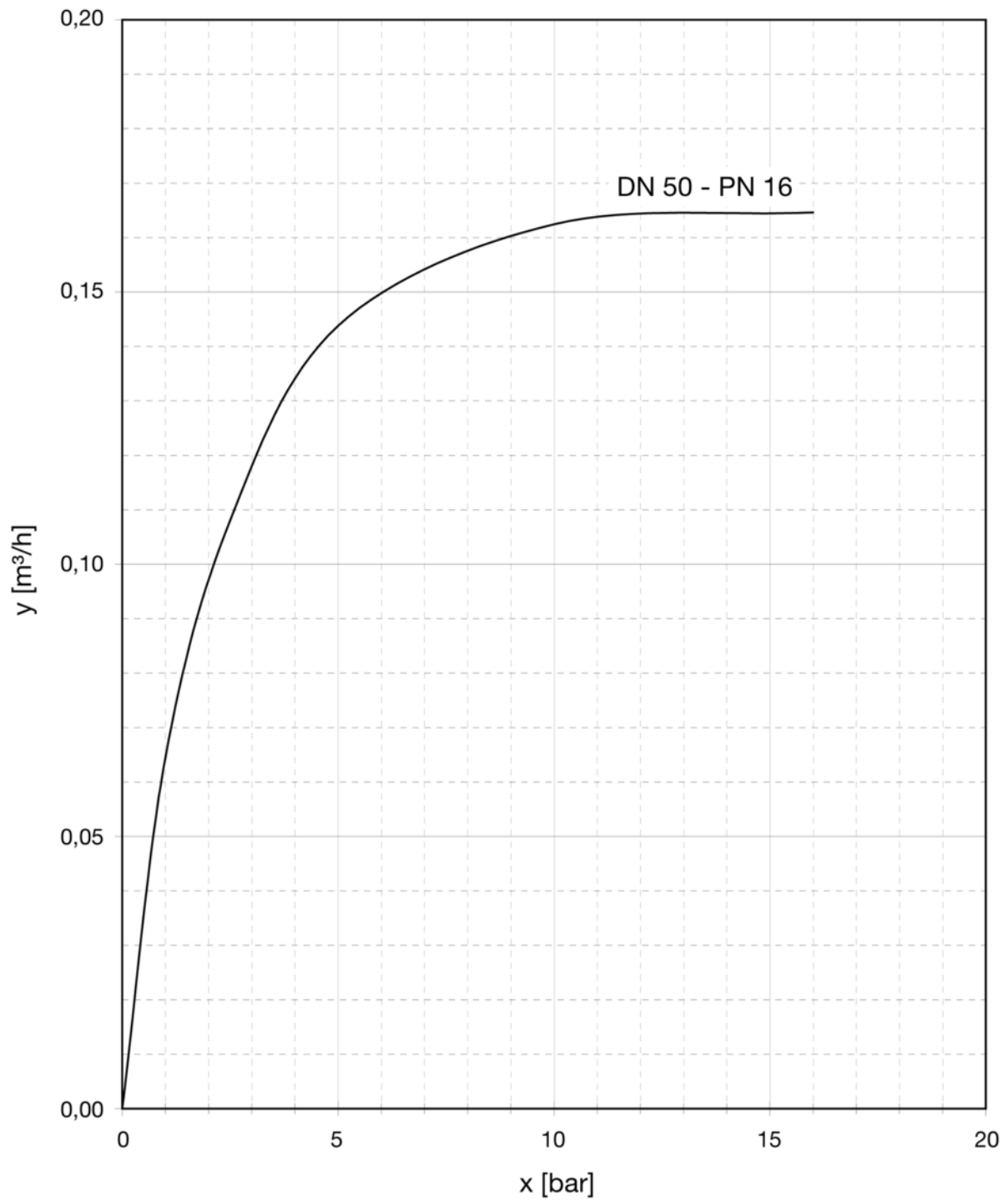
y: Air inflow rate Q [m³/s]



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 [m^3/h]