VAG DUOJET® Automatic Air Valve
Single-chamber type

PN 10/16/25 - DN 50...200
KAT-A 1912

Product characteristics and benefits

- Resilient seated
- With flange end acc. to EN 1092-2
- Single chamber air valve in compact design
- Very high discharge capacity up to sonic velocity due to stabilised floater
- 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
- Outlet female threaded acc. to DIN ISO 228
- Minimum operation pressure: 0.3 bar

Materials

- Body: Ductile iron EN-GJS-400-15 (GGG-40)
- Bonnet: Stainless steel 1.4308
- Bonnet bolts: Stainless steel A2 (DIN EN ISO 3506)
- Inner parts: Stainless steel 1.4541
- Float: Plastic polypropylene
- Sealing: EPDM

Corrosion protection

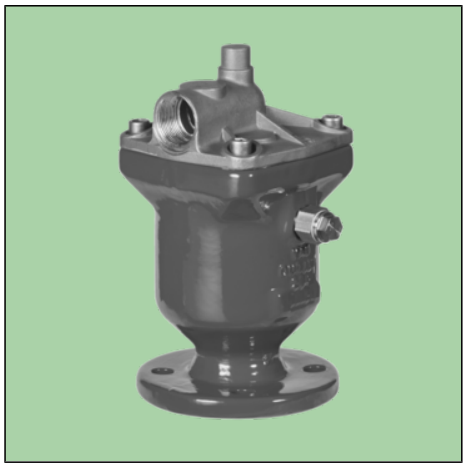
- Internally and externally epoxid coated (min. 250 µm) acc. to GSK guidelines

Versions

- Standard version as described
- For pressures of 0.1...1 bar special seal (with special sealing). Please specify operating pressure when inquiring/ordering.
- Flange dimensions acc. to ANSI class150
- Floater stainless steel 1.4571
- Bonnet ductile iron EN-GJS-400-15 (GGG-40)
- Anti-Surge with integrated shut-offvalve and individual calculated orifice acc. to Kat-A 1918
- With integrated shut-offvalve
- Duojet®-S with VAG CEREX®300-L Butterfly valve with hand lever acc. to Kat-A 1912-S
- Slow-closing option with shut-offvalve
- Duojet AWWA standard acc. to KAT-A 1920
- Duojet®-T tamper resistant acc. to Kat-A 1925
- With inside rubber lined for seawater application
- With insect protection
- Venting set acc. to Kat-A 1914

Field of application

- Chamber installation
- Installation in plants



Tests and approvals

- Final inspection test acc. to EN 12266
- DVGW tested and registered

Note

For valve dimensioning the free VAG UseCAD® software is available on request.

For proper installation and safe operation please follow the installation and operation instructions:
KAT-B 1912

Operating conditions

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
50...200	25	25	50
50...200	16	16	50
200	10	10	50

Pressure test acc. to EN 12266

Test pressure body with water [bar]	Test pressure seat with water [bar]
37.5	37.5
24	24
15	15

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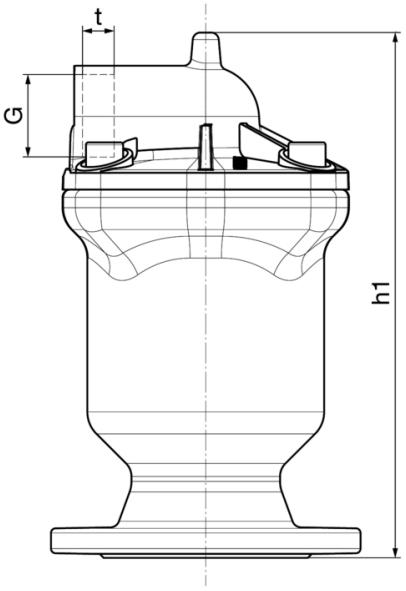
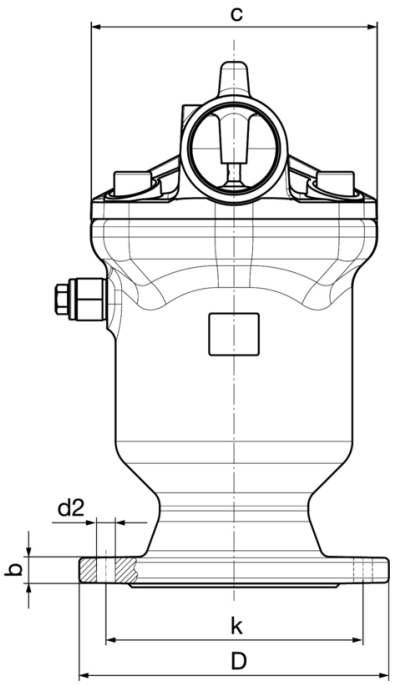
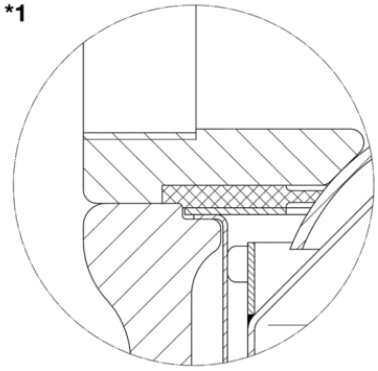
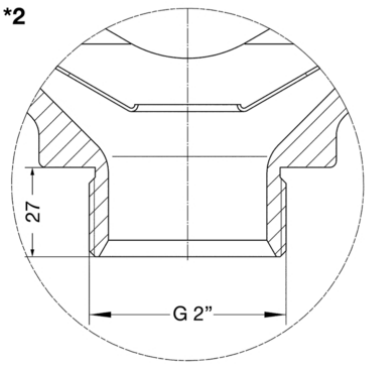
Drawing







*1: Special seal for operating pressures of 0.1….1 bar (no standard version)



*2: DN 50 / PN 16 connection with G 2" thread (no standard version)

Technical data

PN 25

DN		50	80	100	150	200
G Screw connection	[inch]	2"	2"	2 1/2"	4"	4"
D	[mm]	165	200	235	300	360
b	[mm]	19	19	19	20	22
k	[mm]	125	160	190	250	310
c	[mm]	185	185	205	260	260
d2	[mm]	18	18	22	26	28
h1	[mm]	337	340	383	505	505
t	[mm]	25	25	30	40	40
No. of holes		4	8	8	8	12
Weight approx.	[kg]	25.00	25.00	28.00	56.00	57.00
Volume approx.	[m^3]	0.015	0.015	0.02	0.04	0.04

Technical data

PN 16

DN		50	80	100	150	200
G Screw connection	[inch]	1 1/4"	2"	2 1/2"	4"	4"
D	[mm]	165	200	220	285	340
b	[mm]	19	19	19	19	20
k	[mm]	125	160	180	240	295
c	[mm]	160	185	205	260	260
d2	[mm]	18	18	18	22	22
h1	[mm]	337	340	383	505	505
t	[mm]	20	25	30	40	40
No. of holes		4	8	8	8	12
Weight approx.	[kg]	15.00	25.00	28.00	56.00	57.00
Volume approx.	[m^3]	0.01	0.015	0.02	0.04	0.04

PN 10

DN		200
G Screw connection	[inch]	4"
D	[mm]	340
b	[mm]	20
k	[mm]	295
c	[mm]	260
d2	[mm]	22
h1	[mm]	505
t	[mm]	40
No. of holes		8
Weight approx.	[kg]	57.00
Volume approx.	[m^3]	0.04

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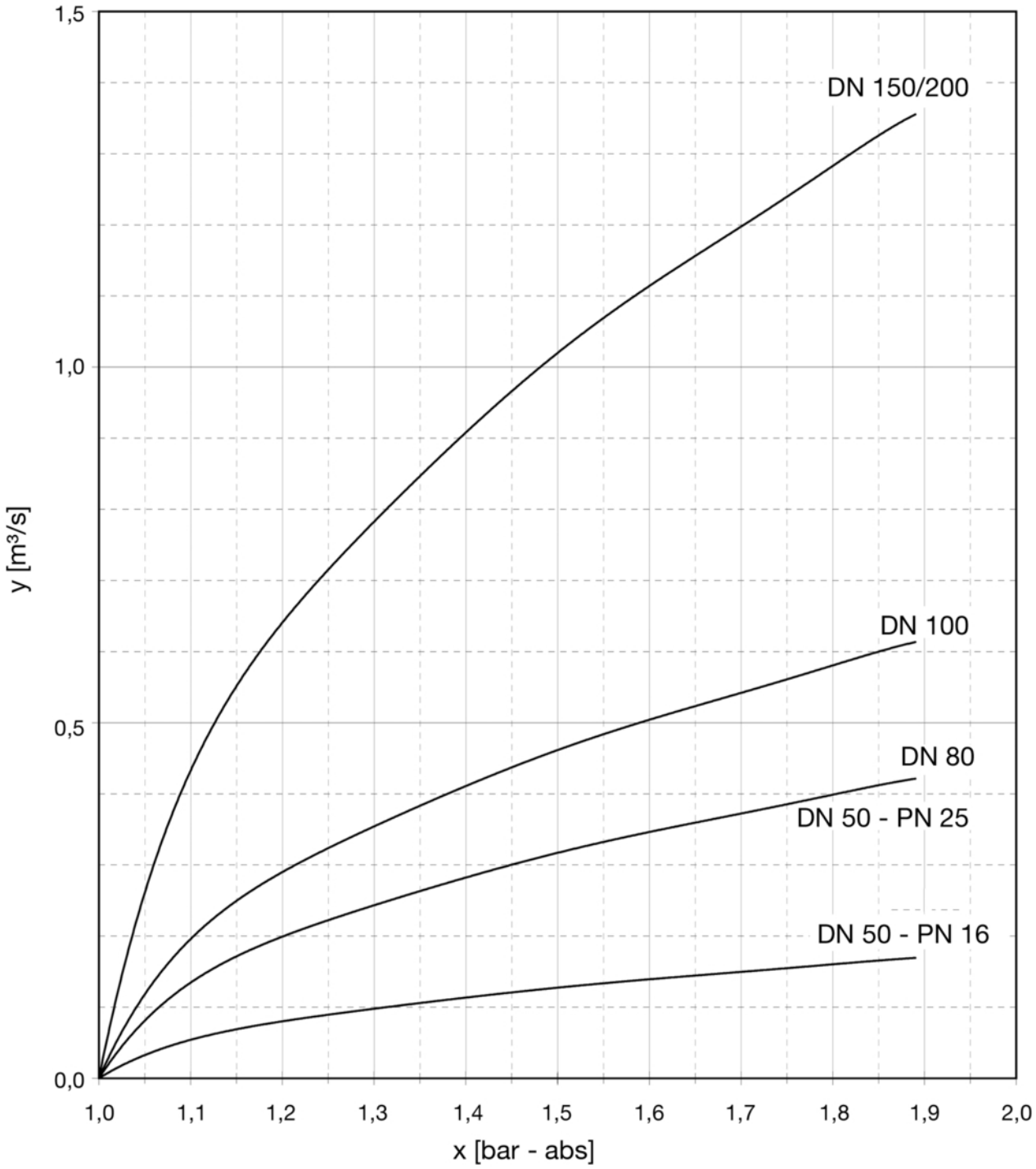
Further information

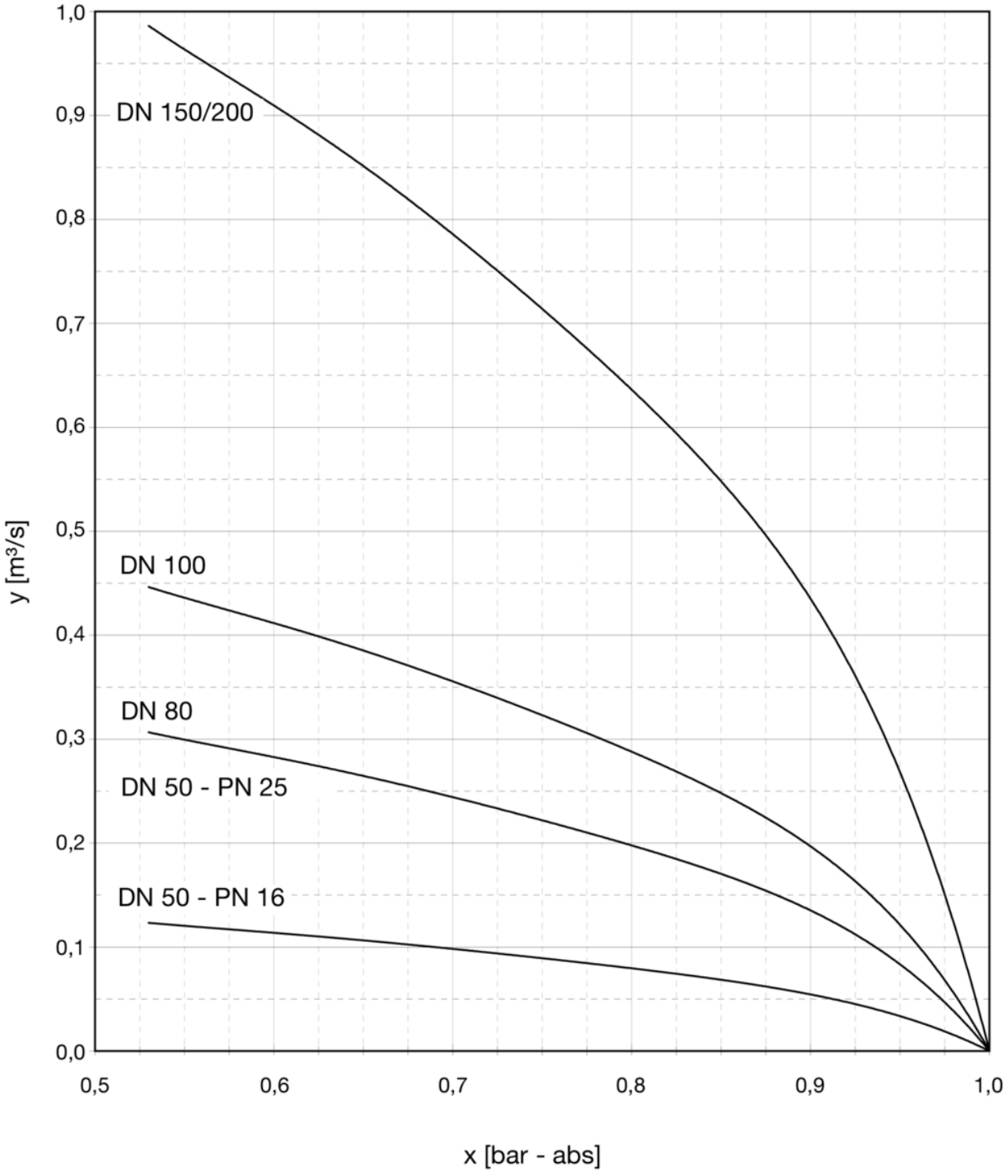
Rate of air release in dependence of the operating pressure
large orifice



x: Internal pressure [bar - absolute]
y: Air flow 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]

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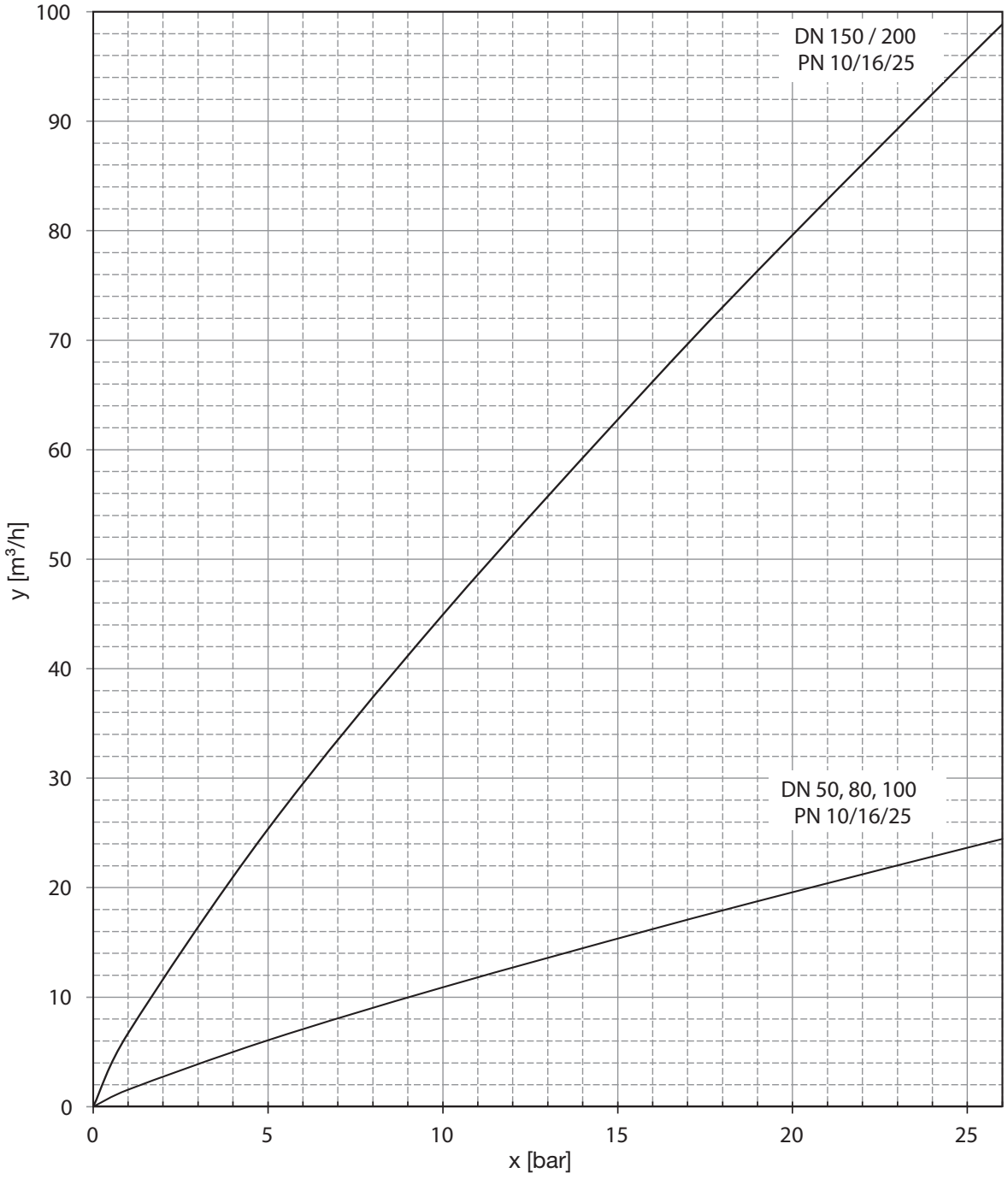
Further information

Rate of air release at full internal operating pressure

small orifice



x: Operating pressure p in pipeline [bar]
y: Air release rate Q [m³/h]