



**PN 10/16 - DN 50...200**

KAT-A 1917

**Product characteristics and benefits**

- Triple function air valve
- Single chamber air valve in compact design
- Low weight for easy handling
- Easy to maintain, all internal functional parts can be removed together
- Incrustation- and corrosion-free due to polyethylene PE housing
- 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
- High discharge capacity for large quantities of air
- With flange end acc. to EN 1092-2
- Outlet female threaded acc. to DIN ISO 228 G 1 ¼", G 2 ½"
- Minimum operation pressure: 0.1 bar

**Materials**

- Body: Polyethylene PE 100
- Bonnet: Stainless steel 1.4308
- Inner parts: Plastic (POM/PVC)
- Float: Polyethylene PE 100
- Sealing: NBR
- Cover flange and guide screws: Stainless steel
- Loose flange for flange connection: Steel with polypropylene (PP) coating

**Versions**

- Standard version as described
- Flange dimensions acc. to ANSI class150
- Higher temperatures possible at reduced pressure
- With non-return valve
- Lockable in open position for purging
- Edelstahlgehäuse auf Anfrage möglich

**Field of application**

- Chamber installation
- Installation in plants



**Tests and approvals**

- Final inspection test acc. to EN 12266

**Note**

Operating temperature 20° C. Reduced maximum admissible operating pressure at higher temperatures (50° C max)

For proper installation and safe operation please follow the installation and operation instructions:  
KAT-B 1917

**Field of application**

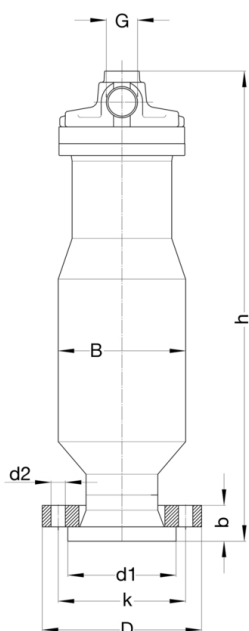
DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
50...200	16	16	20
200	10	10	20

**Pressure test acc. to EN 12266**

Test pressure body with water [bar]	Test pressure seat with water [bar]
24	17.6
16	11



Drawing



Technical data

PN 10

DN		200
G Screw connection	[inch]	2 1/2"
D	[mm]	340
b	[mm]	63
k	[mm]	295
B	[mm]	225
H	[mm]	690
d1	[mm]	268
d2	[mm]	22
h	[mm]	690
No. of holes		8
Weight approx.	[kg]	25.00
Volume approx.	[m <sup>3</sup> ]	0.04

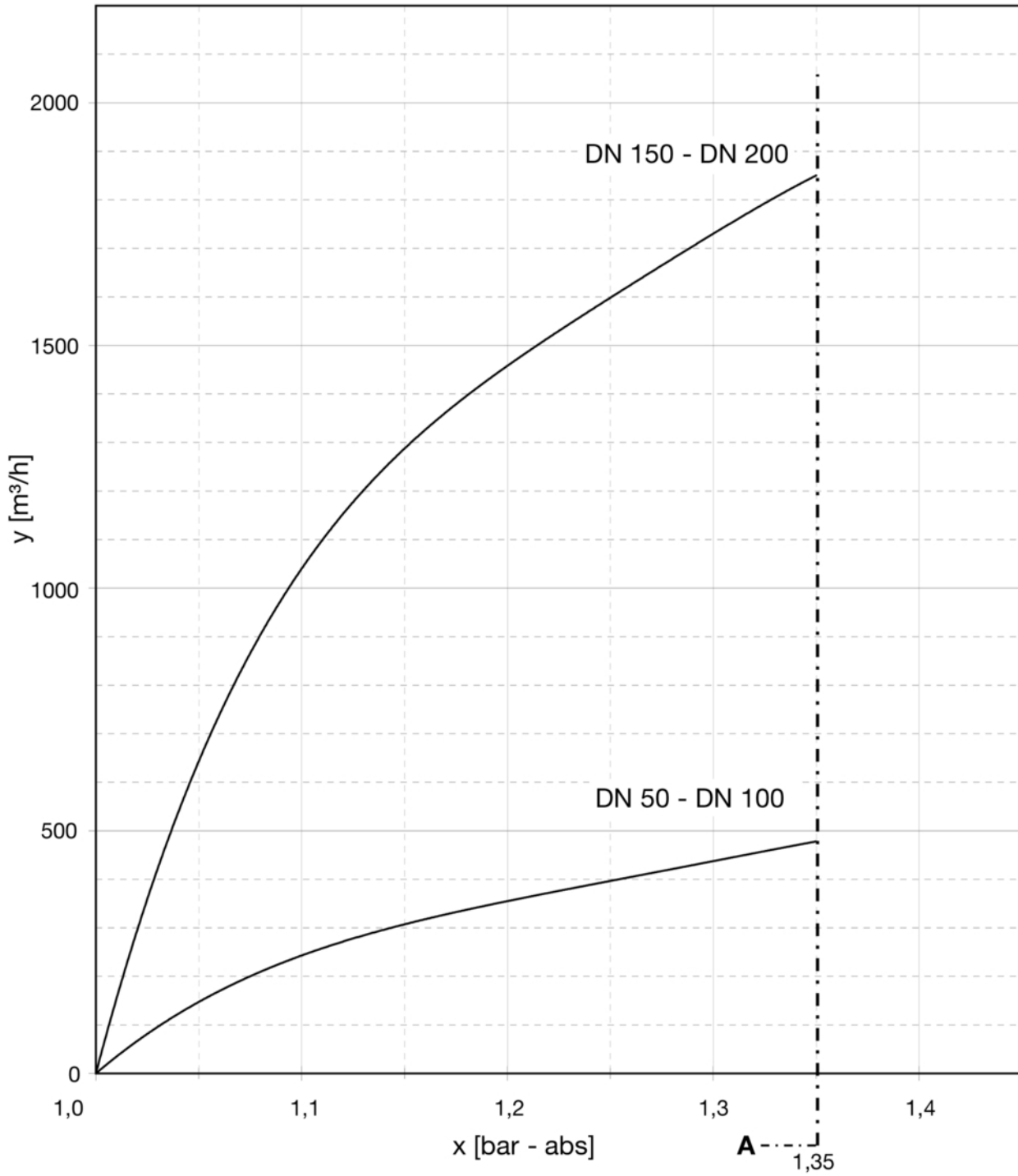
PN 16

DN		50	80	100	150	200
G Screw connection	[inch]	1 1/4"	1 1/4"	1 1/4"	2 1/2"	2 1/2"
D	[mm]	165	200	220	285	340
b	[mm]	35	38	38	50	63
k	[mm]	125	160	180	240	295
B	[mm]	160	160	160	225	225
H	[mm]	665	590	590	690	690
d1	[mm]	102	136	156	212	268
d2	[mm]	18	18	18	22	22
h	[mm]	665	595	590	700	690
No. of holes		4	8	8	8	12
Weight approx.	[kg]	10.00	9.00	10.00	23.00	25.00
Volume approx.	[m <sup>3</sup> ]	0.02	0.02	0.02	0.04	0.04



Further information

Rate of air release in dependence of the internal pressure

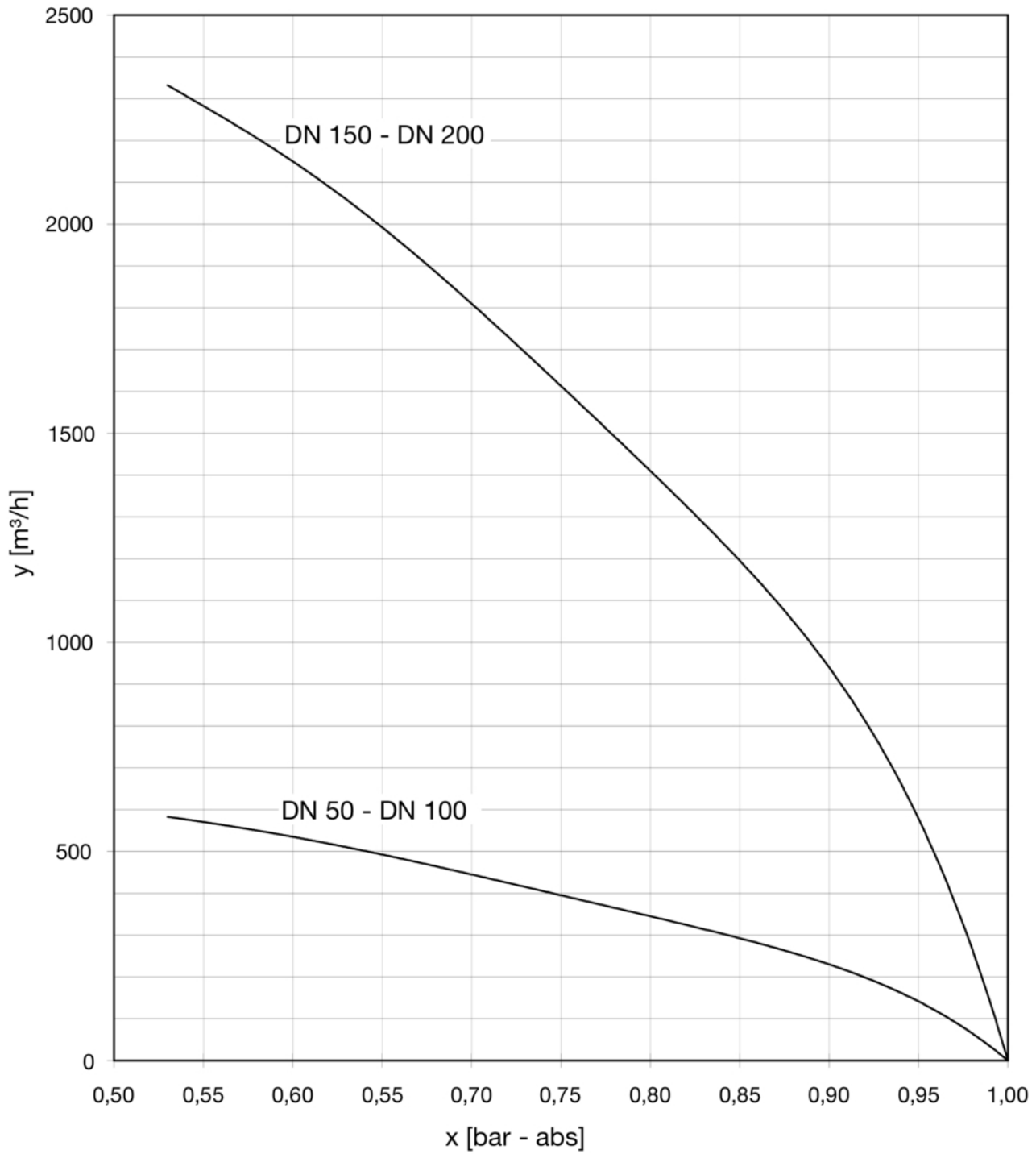


x: Internal pressure p [bar - absolute]  
y: Air release rate Q [m³/h]



Further information

Rate of air intake in dependence of the internal pressure

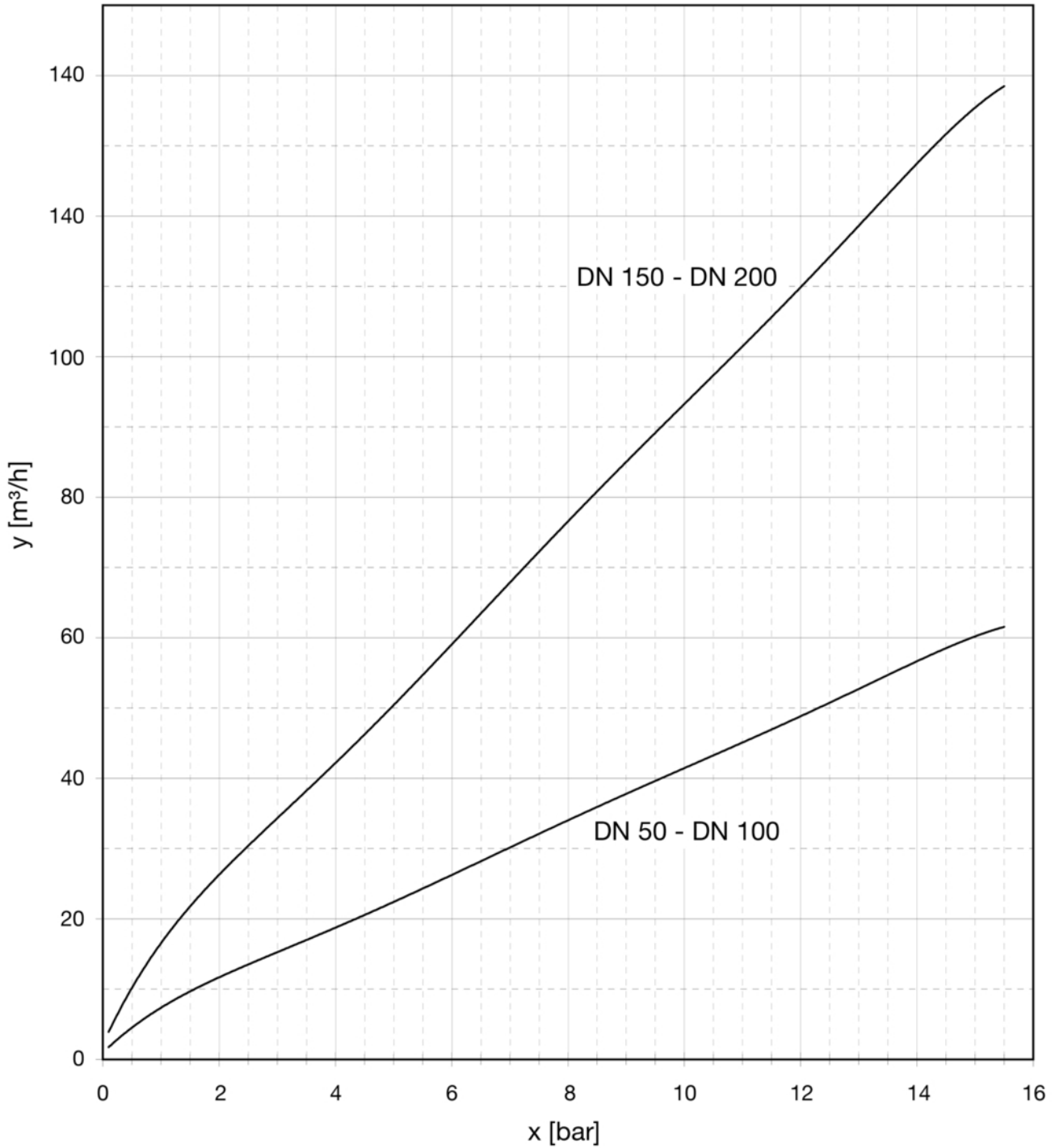


x: Internal pressure  $p$  [bar - absolute]  
y: Air inflow rate  $Q$  [ $\text{m}^3/\text{h}$ ]



Further information

Rate of air release at full internal pressure



x: Operating pressure  $p$  in pipeline [bar]  
y: Air release rate  $Q$  [ $\text{m}^3/\text{h}$ ]