



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

KAT-A 2449

### Product characteristics and benefits

- Resilient seated in accordance with EN 12334
- Face-to-face length acc. to EN 558-1, basic series 48 (DIN 3202, F6)
- With flange ends on both sides acc. to EN 1092-2, PN 10
- No mechanically moving parts
- Easy to maintain
- Prevention of back flow via ball check principle
- Little risk of blockage due to full bore type
- Applicable at low differential pressure
- Low friction losses
- With sinking ball

### Materials

- Body: Ductile cast iron EN-JS 1030 (GGG-40)
- Bonnet: Ductile cast iron EN-JS 1030 (GGG-40)
- Bonnet bolts: Stainless steel A2 (DIN EN ISO 3506)
- Ball: Aluminium core vulcanized with NBR on all sides

### Corrosion protection

- Inside and outside epoxy coating

### Versions

- Standard version as described
- Bigger sizes available on request
- For high pressures
- For high temperatures
- For abrasive media
- With floating ball

### Field of Application

- Installation in plants



### 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

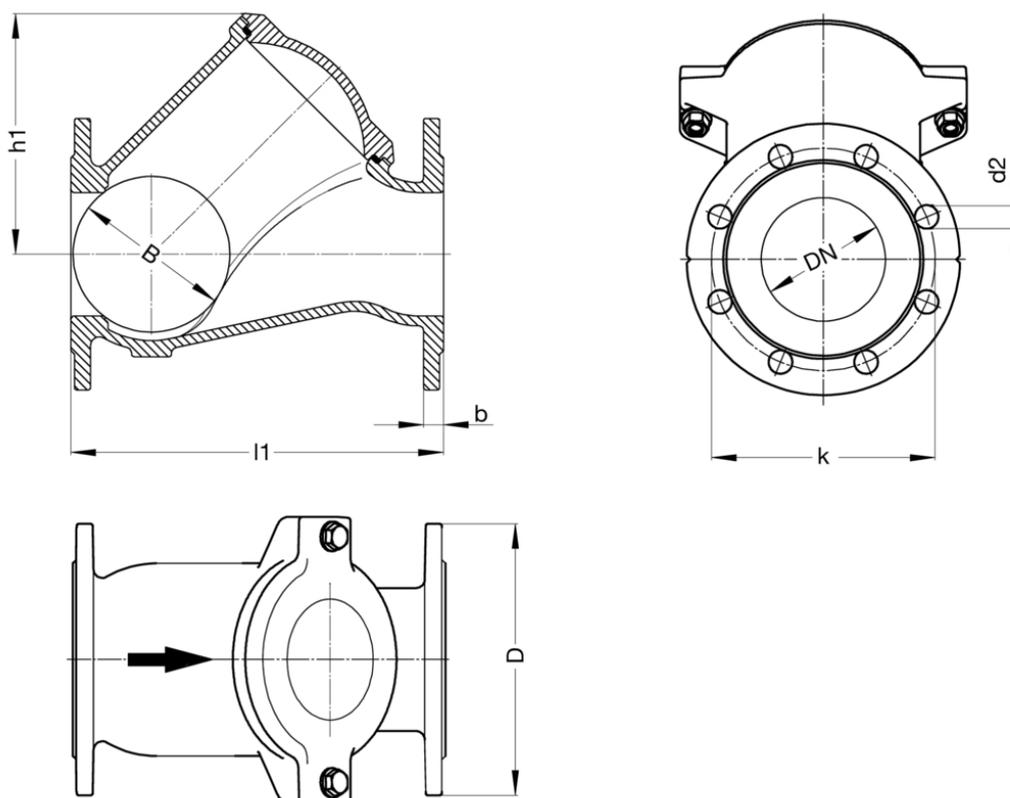
DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
50...150	16	16	50
200	10	10	50

### Pressure test acc. to EN 12266

Test pressure body with water [bar]	Test pressure seat with water [bar]
24	17.6
15	11



Drawing



Technical data

PN 16

DN		50	65	80	100	125	150
B	[mm]	63	82	101	126	158	189
D	[mm]	165	185	200	220	250	285
b	[mm]	19	19	19	19	19	19
d2	[mm]	18	18	18	18	18	23
h1	[mm]	116	146	166	194	231	262
k	[mm]	125	145	160	180	210	240
l1	[mm]	200	240	260	300	350	400
No. of holes		4	4	8	8	8	8
Weight approx.	[kg]	8.00	11.00	13.00	19.00	28.00	37.00
Volume approx.	[m <sup>3</sup> ]	0.007	0.010	0.014	0.020	0.031	0.046

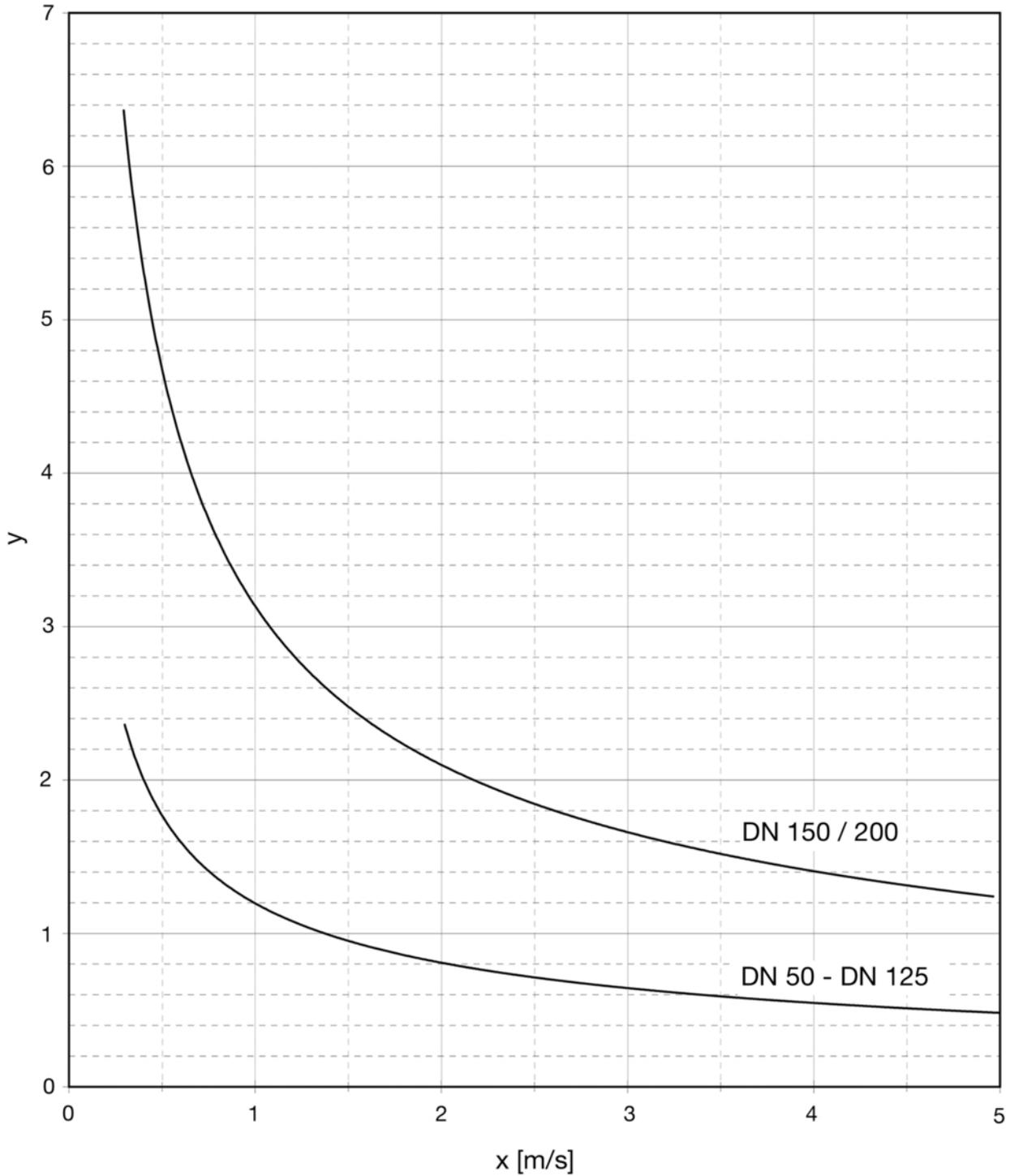
PN 10

DN		200
B	[mm]	252
D	[mm]	340
b	[mm]	20
d2	[mm]	23
h1	[mm]	336
k	[mm]	295
l1	[mm]	500
No. of holes		8
Weight approx.	[kg]	72.00
Volume approx.	[m <sup>3</sup> ]	0.086



Further information

Flow resistance coefficient



x: Flow velocity [m/s]  
y: Flow resistance coefficient  $\zeta$