

PN 10/16 - DN 40...400

KAT-A 1543



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
- Compact design
- Optimum damping of pressure surges via pre-stressed, elastic diaphragm
- Very quick and low noise closing
- No mechanically moving parts
- Installation in any position
- With two threaded plugs for mounting a bypass

Materials

- Body: Ductile cast iron EN-JS 1030 (GGG-40); DN 400 cast iron EN-JL 1040 (GG-25)
- Flow guide: Ductile cast iron EN-JS 1030 (GGG-40); DN 400 cast iron EN-JL 1040 (GG-25)
- Circular diaphragm: EPDM

Corrosion protection

- Inside and outside epoxy coating acc. to GSK guidelines

Field of Application

- Installation in plants

Tests and approvals

- Final inspection test acc. to EN 12266 (DIN 3230 Part 4)
- Elastomers approved acc. to W270

Note

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

KAT-B 1543

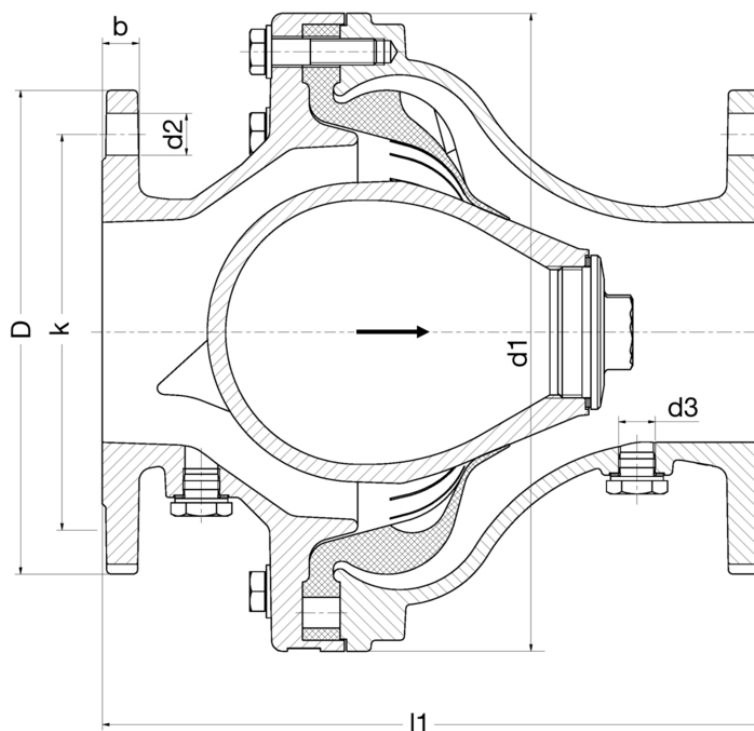
Field of application

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
40...300	16	16	50
200...400	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	40	50	65	80	100	125	150	200	250	300
D [mm]	150	165	185	200	220	250	285	340	400	455
Thread d3 [inch]	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	1/2	3/4
Diaphragm size	1	2	3	3	4	4	4	5	6	7
b [mm]	19	19	19	19	19	19	19	20	22	24.5
d1 [mm]	150	175	220	220	290	290	290	378	448	552
d2 [mm]	19	19	19	19	19	19	23	23	28	28
k [mm]	110	125	145	160	180	210	240	295	355	410
l1 [mm]	180	200	240	260	300	350	400	500	600	700
No. of holes	4	4	4	8	8	8	8	12	12	12
Weight approx. [kg]	8.70	11.00	16.90	18.00	28.30	32.50	38.00	69.50	110.00	172.50
Volume approx. [m ³]	0.005	0.007	0.010	0.014	0.016	0.035	0.040	0.080	0.130	0.235

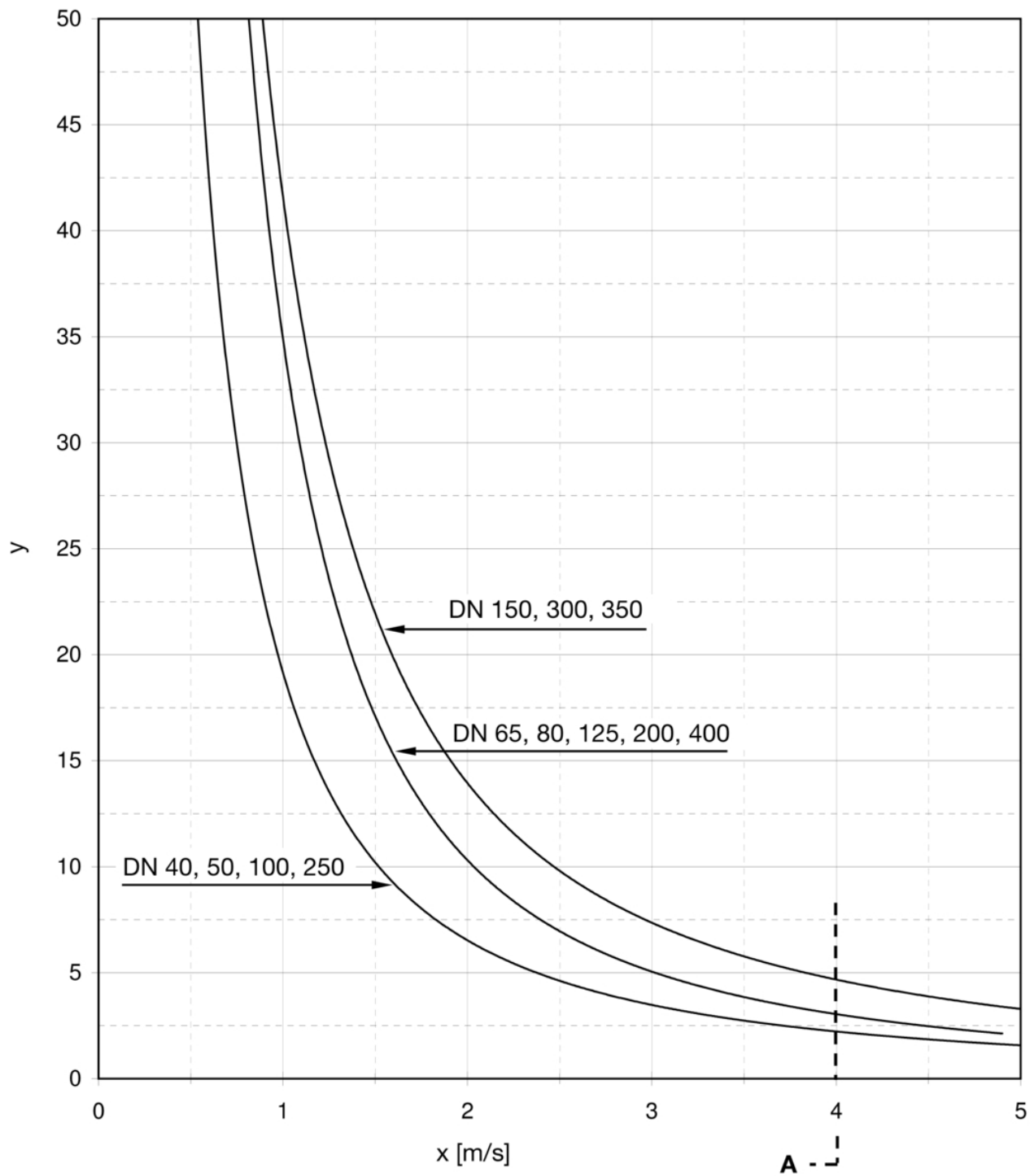
PN 10

DN	200	250	300	350	400
D [mm]	340	400	455	505	565
Thread d3 [inch]	3/8	1/2	3/4	3/4	3/4
Diaphragm size	5	6	7	8	9
b [mm]	20	22	24.5	30	32
d1 [mm]	378	448	552	645	720
d2 [mm]	23	23	23	22	26
k [mm]	295	350	400	460	515
l1 [mm]	500	600	700	800	900
No. of holes	8	12	12	16	16
Weight approx. [kg]	69.50	110.00	172.50	280.00	390.00
Volume approx. [m ³]	0.080	0.130	0.235	0.365	0.510



Further information

Flow resistance coefficient



x: Flow velocity [m/s]
y: Flow resistance coefficient ζ
A: Operating limit