

Datasheet

Check valve

Si-710 EN

Edition: 2010-04

Type BCV

With spring

Type BCVA

Without spring

Nominal pressure

PN 25/20/16/10

Nominal size

DN 50 - 600

Material

CF8M

- Short face to face
- Low weight - easy installation
- Low opening pressure and low pressure drop
- Good tightness
- Short closing time
- Available with spring
- Replaceable shafts

The SOMAS check valve can be used on liquid, steam and gas.

The check valve should be clamped between flanges. Pressure rating is PN 25, but the check valve can also be mounted between other standard flanges.

The disc is supported by two shafts, which are replaceable when necessary. The shafts are sealed in the body by graphite gaskets.

The closing time is short due to the seat angle in the body.

When required, the valve can be equipped with spring(s) to shorten the closing time. For installation on liquids the version with spring(s) is recommended.

Sizes DN 200 and upwards have a lifting eye for easy mounting.





Tightness class

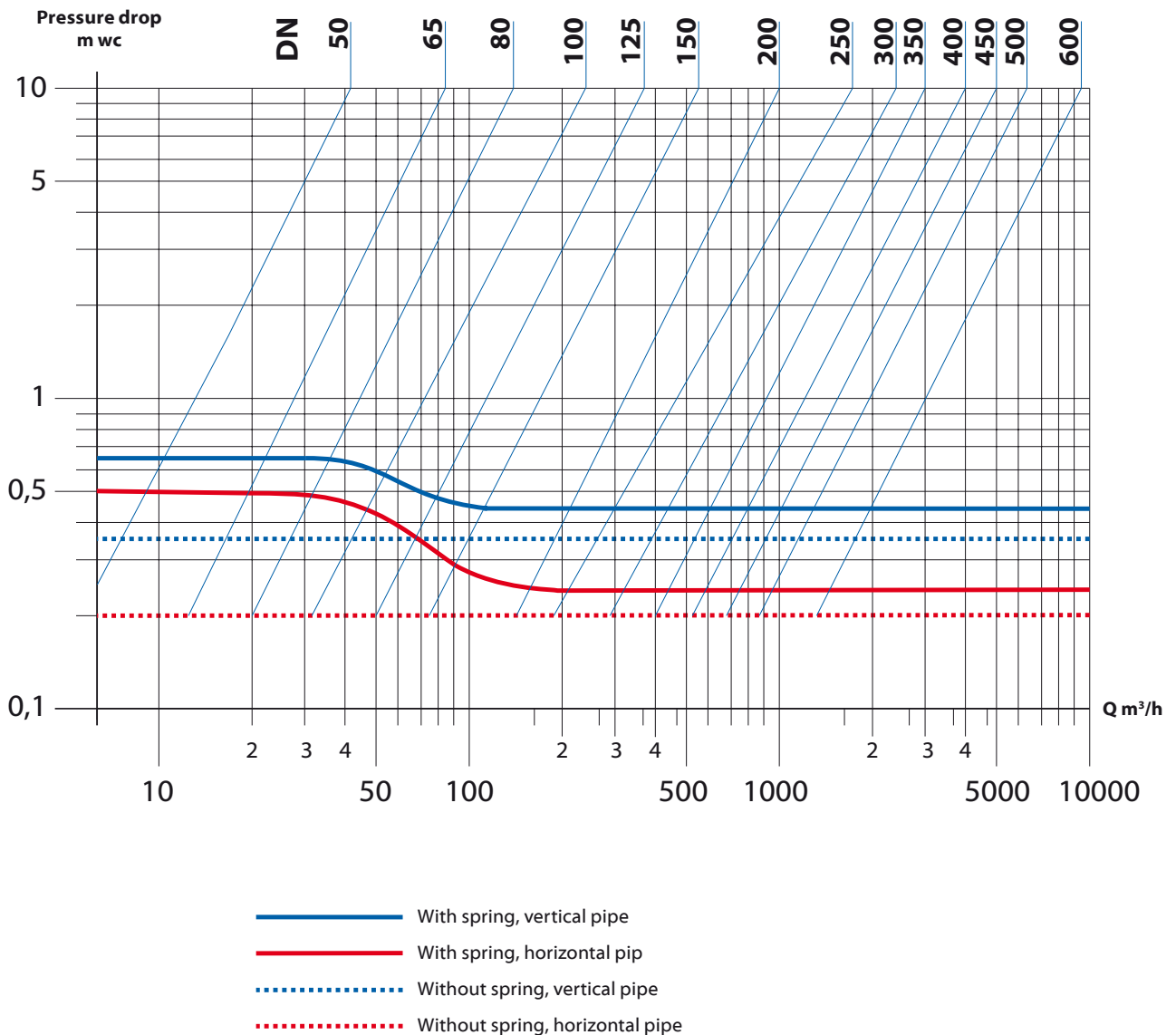
Corresponding to ASME B16.104 Class V at actual pressure test.

Working pressure and temperatures, PN 25

Max working pressure bar (E) at working temperature °C										Pressure test ¹	
20°	50°	70°	100°	150°	200°	250°	300°	350°	400°	Open valve	Closed valve
25	23	22	20.5	19	18	17.5	16.5	16	15.5	38	25

¹ bar (E) water 20°C

Diagram showing pressure drop



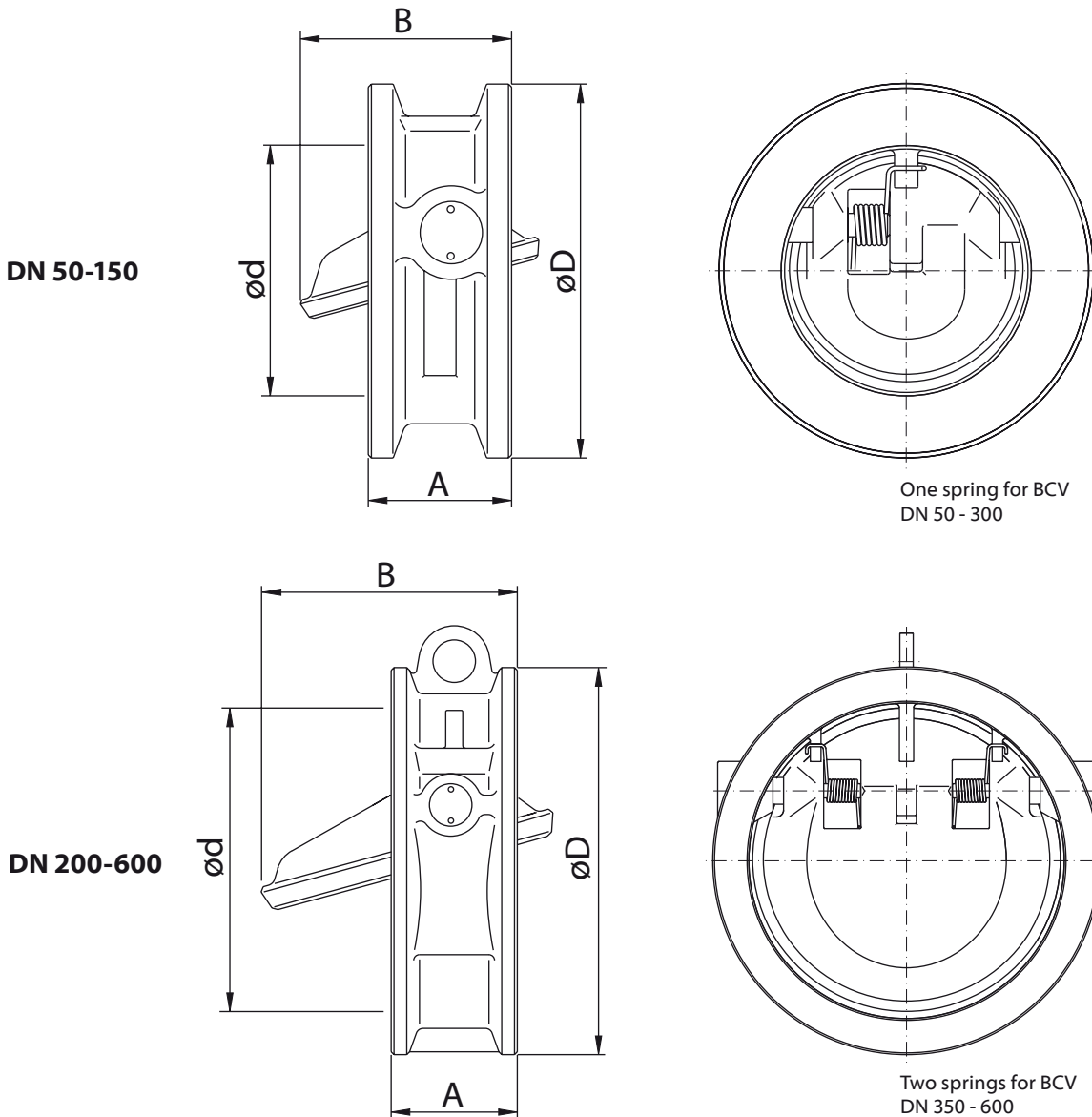


Further technical information

Technical data for the materials used in the SOMAS valves, flange standard, steam data, etc. can be found in section 6 of the SOMAS catalogue.

Material

See valve specification system.



Check valve, type BCV					
DN	A	B	ød	øD	Weight
50	43	55	55	100	2
65	46	66	70	125	2.5
80	64	83	85	140	4
100	64	93	104	160	5.3
125	70	105	127	185	7.5
150	76	130	152	216	10.5

Check valve, type BCV w. lifting eye					
DN	A	B	ød	øD	Weight
200	89	166	202	273	18.5
250	114	210	252	328	29
300	114	246	300	375	40
350	127	290	350	435	54

Check valve, type BCV w. lifting eye					
DN	A	B	ød	øD	Weight
400	140	330	404	485	71
450	152	370	454	540	96
500	152	410	505	594	111
600	178	490	604	696	165



Ordering

See valve specification system.

Valve specification system

BCV - A 5 - A A Z - N 1 1 - DN... - PN...

1 Type of valve

With spring

BCV

Without spring

BCVA

2 Valve body design

A = Wafer type

3 Nominal pressure

5 = PN 25

4 Material – valve body

A = CF8M

5 Material – disc

A = CF8M

6 Material – seat

Z = Integrated seat

7 Material – shaft

N = 1.4460, Nickel coated

8 Bearing – valve body/shaft

1 = Without bearing

9 Sealings – shafts

1 = Graphite

10 Valve size, DN

**11 Drilling, counter flanges,
PN/Class**

SOMAS reserves the right to make improvements without prior notice.



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