SB04

Flow Limiters

- **Flow quantity control without additional power requirements**
- **Energy saving by limiting the flow of liquids to the necessary flow rate**
- **For DIN/ASME flange PN16/300 lbs DN40...DN100**
- **Simple mounting between 2 flanges**
- **All metal design without plastic internals**
- **Material: stainless steel**

Description:
The Flow limiters SB04 are developed to limit the flow of a liquid media to a certain amount. They assure that the flow amount will not exceed even by fluctuating inlet or outlet pressures.
In contrast to the most customary devices of this type the flow limiters SB04 have a spring element made of stainless steel instead of a usual plastic membrane.
Due to the differential pressure across the limiter this variable orifice changes its aperture continously. Through increasing the orifice size with falling pressure or decreasing it with rising pressure the flow rate will always remain constant.

Typical application:
For water and watery media. Usable in water distribution systems in the industry, in car wash installations, for sanitary applications and in water treatment systems.

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Method of operation and composition:

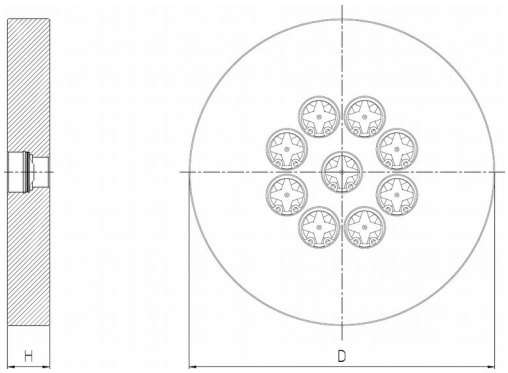
see Data sheet SB02

Flow volume:

Individual limiting elements may be supplied for the following flow rates: 1...30 l/min water. (40 l/min on request)
By adding several flow elements on to a common disc nearly all flow rates may be realized.

Versions and dimensions:

The SB04 flow limiters are available either as disc with male thread (G) or mounted into a st. steel flow housing between two flanges.



Model Code:

Order Number	SB04.	2.	40DA.	100

Flow limiters

Disc material:
2 = St. steel

Disc outer diameter:
40DA = DN40 DIN/ASME
50D = DN50 DIN
50A = DN50 ASME
65DA = DN65 DIN/ASME
80D = DN80 DIN
80A = DN80 ASME
100D = DN100 DIN
100A = DN100 ASME

Flow rate:
xxx = in l/min. water

Nominal size	Norm	Number of drillings	Pressure range of the intermediate flange	Min. flow [l/min]	Max. flow [l/min]	H [mm]	D [mm]
DN 40	DIN/ ASME	2	PN 16/ 300 lbs	2	60	19.1	95
DN 50	DIN	4	PN 16	4	120	18.0	110
DN 50	ASME	4	300 lbs	4	120	23.9	113
DN 65	DIN/ ASME	7	PN 16/ 300	7	210	23.9	130
DN 80	DIN	9	PN 16	9	270	20.0	145
DN 80	ASME	9	300 lbs	9	270	23.9	150
DN 100	DIN	14	PN 16	14	420	20.0	165
DN 100	ASME	14	300 lbs	14	420	23.9	182

Technical Data:

Min. regulating pressure:	2 bar
Max. differential pressure:	10 bar
Max. static pressure:	16 bar
Max. temperature:	200 °C

Materials:

Disc:	St. steel 1.4571
Inserts:	St. steel 1.4310
Ring:	St. steel A2
Rivet:	St. steel 1.4301
Accuracy:	Until 2 l/min +/- 15% from the nominal value, from 3 l/ min +/- 10% from nominal value

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