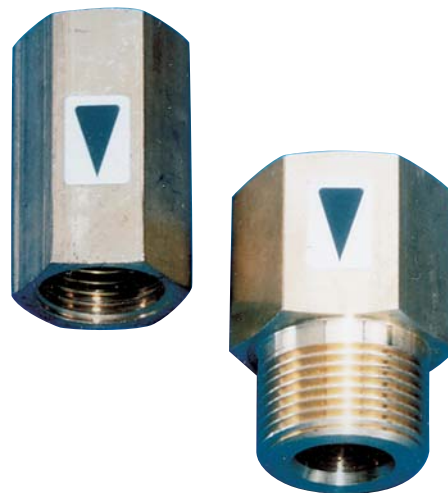


SB02

Flow Limiter

- without additional power requirement
- saves energy by limiting the flow rate to the actually needed flow
- compact design
- easy to install
- all metal version without plastic internals
- materials: brass or stainless steel



Description

The model SB02 flow limiters are used to limit the flow of water or waterlike media to a fixed value. They make sure that this fixed flow rate stays constant despite varying upstream or downstream pressures. Contrary to the commonly used products of this kind the SB02 limiter do not utilize a plastic membrane as limiting device. Instead the SB02 work with a spring loaded stainless steel variable orifice. Due to the differential pressure across the limiter this variable orifice changes its aperture continuously. Through increasing the orifice size with falling pressure or decreasing it with rising pressure the flow rate will always remain constant.

Applications

For water and waterlike media.
Usable in water distribution systems in the industry, in car wash installations, for sanitary applications and in water treatment systems.

Versions:

Process connection:

- 1/2" NPT or G 1/2 female on both sides
- 3/4" NPT or G 3/4 female on both sides
- Input 1/2" NPT or G 1/2 female, output 1/2" NPT or G 1/2 male
- Input 3/4" NPT or G 3/4 female, output 3/4" NPT or G 3/4 male

Materials:

- Housing brass, internals stainless steel
- Housing and internals stainless steel

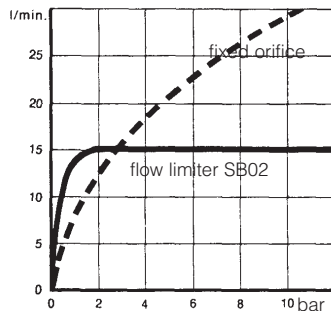
Flow rates:

from 0.264-7.925 GPM / 1-30 l/min water in steps of 0.264 GPM / 1 l/min, and 10.5 GPM / 40 l/min

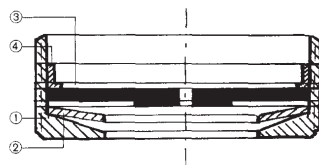
The flow rates are defined by the design of the units and cannot be changed by the user.

By installing several single SB02 in parallel almost all required flow rates may be achieved (see data sheet SB03).

Principle of operation:



The orifice size decreases proportional to the upstream pressure, therefore the flow rate remains constant.

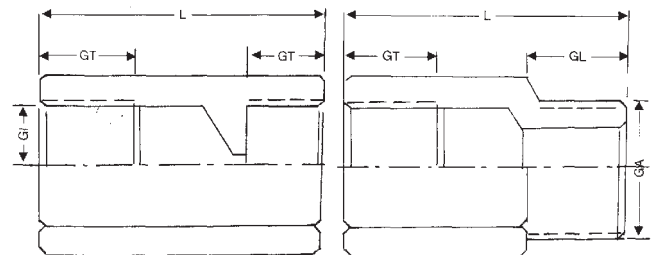


- 1) housing
- 2) ring
- 3) variable orifice
- 4) fixing ring

Ordering code:

Order number	SB02.	1.	1.	10.	0
Flow limiter					
Process connection:					
1 = G 1/2 female on both sides					
1N = 1/2" NPT female on both sides					
2 = G 3/4 female on both sides					
2N = 3/4" NPT female on both sides					
3 = Input G 1/2 female, output G 1/2 male					
3N = Input 1/2" NPT female, output 1/2" NPT male					
4 = Input G 3/4 female, output G 3/4 male					
4N = Input 3/4" NPT female, output 3/4" NPT male					
Materials:					
1 = brass					
2 = stainless steel					
Flow rate:					
xx = flow rate in GPM or l/min					
Options:					
0 = without					
1 = please describe					

Dimensions:



Model	L	GT	GL	GI	GA	SW
SB02.1	43	14		1/2"		24
SB02.2	45	15		3/4"		30
SB02.3	43	14	14	1/2"	G 1/2	24
SB02.4	45	15	15	3/4"	G 3/4	30

Technical specifications:

min. control pressure: 29 psi / 2 bar

max. differential pressure: 145 psi / 10 bar

max. static pressure: 928 psi / 64 bar

max. temperature: 392 °F / 200 °C

accuracy:

up to 2 l/min ± 15 % from actual flow value

from 3 l/min ± 10 % from actual flow value