

PRODUCT PROFILE

Flow Limiters / Flow Restrictors

BA, BB, BC & BF



Flow Limiters from Meister Strömungstechnik are used where, regardless of pressure fluctuations, a constant flow is required or the flow must be limited. Furthermore, there are applications in which water and energy shall be preserved through consumption-based limitation.

Our flow limiters are also used in applications where different pipe diameters or lengths are being used on a single pump unit but still identical flow rates are needed.

Technical info

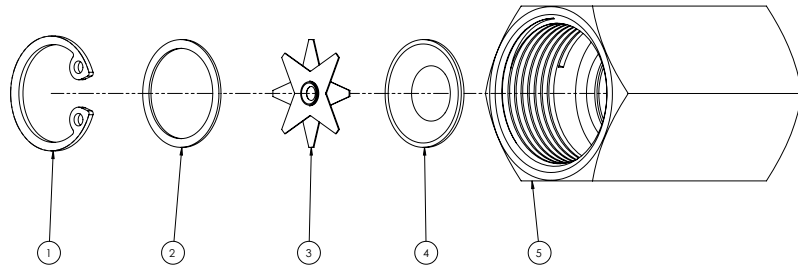
Medium	Water
Flow rates	1 - 420 l/min in 1 l/min - steps
Control pressure	2 - 10 bar
Operating pressure max.	10 bar
Operating temperature	-20 °C - 200 °C
Materials	Brass, Stainless steel

Benefits

Constant flow rate, independent from pressure fluctuations
Very high precision of flow
High functional reliability
No power supply required
Suitable for hot liquids
Mounting in any orientation
Various process connections like threading, flanges, inline

Exploded view

- 1 Retaining ring
- 2 Spacer ring
- 3 Regulating star
- 4 Cone
- 5 Device body



Operating principle:

The flow is controlled by a combination of a flexible regulating star and a rigid measuring cone. As the pressure difference increases, the regulating star is pushed into the cone. This reduces the effective diameter so that the flow rate is always kept constant. If the pressure differential decreases to its initial level, the star returns to its initial position (variable pressure, still constant flow).

Typical use areas:

Industry	Application
Plant construction	Car wash facilities, industrial washing systems
	Cooling systems
	Batchers, mixing systems
	Industrial water supply
Power generation	Filling of industrial heating systems
Agriculture	Irrigation (e.g. plantations and vineyards)
Machine building	Cooling circuits
	Spindle cooling
	Cleaning stations (e.g. facility cleaning)
Process industry	Continuous process water supply
Water treatment	Process water treatment