Pressure gauge snubber

Description

Pressure gauge snubbers are intended to suppress the effect of pressure pulses and pressure peaks (EN 837-2).

The snubber is provided with an adjustable needle valve that enables to restrict the flow as operating conditions may demand even if the snubber is in service. The carefully adjusted snubber increases considerably the service life of pressure gauges at arduous conditions found at reciprocating pumps and compressors, hydraulic presses or fluid power systems and improves additionally the reading accuracy of the fitted gauge.

For this adjustable and firmly installed throttle devices are the suitable technical expedients.
With adjustable throttle devices the throttling can be individually adjusted to the respective working conditions by modification of the opening area of the valve. Readjustment is always possible during operation.

Throttle devices with capillary tubes have an especially strongly deadened effect due to their construction. The damping degree is dependent on the length of the capillary tube und its inside diameter (for example Ø 0,3mm x 50mm).

The pulsations occurred with e.g. compressors, steaming machines, hydraulic presses, tension testing machines, etc. and pressure vibrations in measuring materials are extensively balanced by a throttle.
These results in the pressure gauges have a substantially longer service life and the reading accuracy is improved.

The effectiveness of the throttle device begins up from a pressure range of >0.4bar.

Features

- o progressively continuously adjustable
- o simple handling
- o various materials to select from

Measuring ranges

PN 250 and PN 400

Connection

G½ x G½ A according to DIN 16 288

Applications

General mechanical engineering

hydraulics, compressors,

pumps, terotechnology

Model: A1303

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Adjustable throttle device

Optional extras

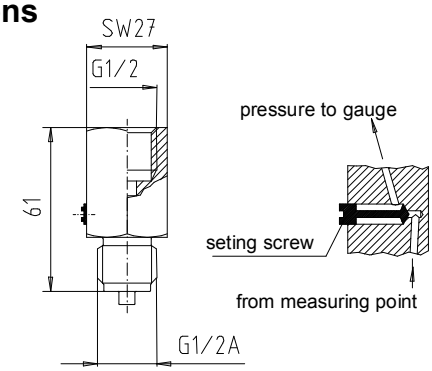
Materials: monel
brass, chromium-plated

Connections: G¼, G3/8 according to DIN 16 288
M20x1.5 according to DIN 16 288
¼ NPT, ½NPT

Oil- and fat free for oxygen: max. 50 bar or 60°C respectively
(only material brass and 1.4571)

Inspection certificate according to DIN 50 049 3.1B

Dimensions



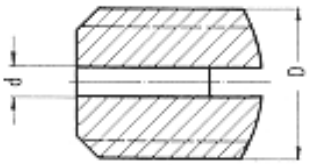
Material			PN [bar]	temperature range	Article No.
case	spindle	seal			
brass	1.4104 2)	perbunan	250	-10 ... 120 °C	A1303X060001
steel 1)	1.4104 2)	perbunan	400	-10 ... 120 °C	A1303X060002
1.4571 2)	1.4571 2)	viton 3)	400	-10 ... 120 °C	A1303X060003

1) rust protected 2) CrNi-stainless steel 3) Viton ® Fluorelastomer, a produkt of DuPont Dow Elastomers

Firmly installed throttle device

Throttle bolt

Throttle bolts are screwed in a pressure channel boring provi ded with a thread in the connecting branch.



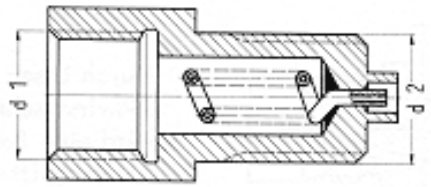
D	Dimension	Material	Gauges ø	Application for medium	Article No.
M3	0.3	brass nickel-plated	≤ 63	air	A1303X010001
	0.6			fluids	A1303X010002
M4	0.3	brass nickel-plated	≥ 80	air	A1303X020001
	0.8			fluids	A1303X020002
	0.5	stainless steel,1.4571		refrigerant	A1303X020004
	0.8			fluids	A1303X020003

Special types on demand

Capillary tube throttle

Capillary tube throttles have an especially strongly deadened effect due to their construction. The damping degree is dependent on the length of the capilla ry tube und its inside diameter (for example Ø 0,3mm x 50mm). In order to realize this throttle-section in the connection piece, the capillary must be rolled up .

Abb. 3



d1	d2	Dimensions	Material	Application for medium	Article No.
G¼	G¼ A	50 x0.3	brass, blank	air	A1303X050001
		180 x 0.3			A1303X050002
		500 x 0.3			A1303X050003
		50 x 0.6		fluids	A1303X050004
		150 x 0.6			A1303X050005
		250 x 0.6			A1303X050006

Capillary tube throttle

Abb. 2

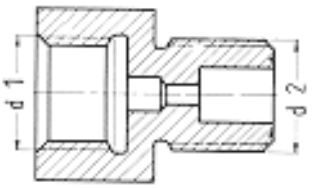
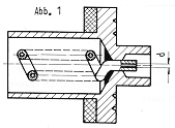


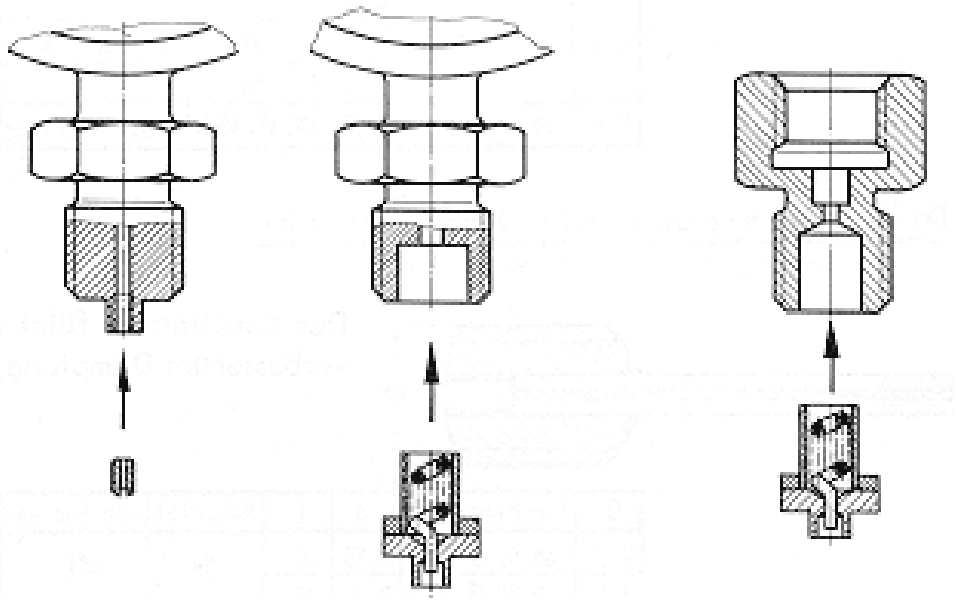
Abb. 1



d1	d2	Term	Material	Application for medium	Article No.
G½	G½ A	adapter for capillary tube throttle	brass, blank	--	A1303X040001

Dimension l x d	Term	Material	Application for medium	Article No.
50 x0.3	insert for adapter	brass, blank	air	A1303X030001
180 x 0.3				A1303X030002
500 x 0.3				A1303X030003
50 x 0.6			fluids	A1303X030004
150 x 0.6				A1303X030005

Installation possibilities



Throttle bolt

Capillary tube throttle
and adapter

Capillary tube throttle
and adapter

Subject to technical alternations