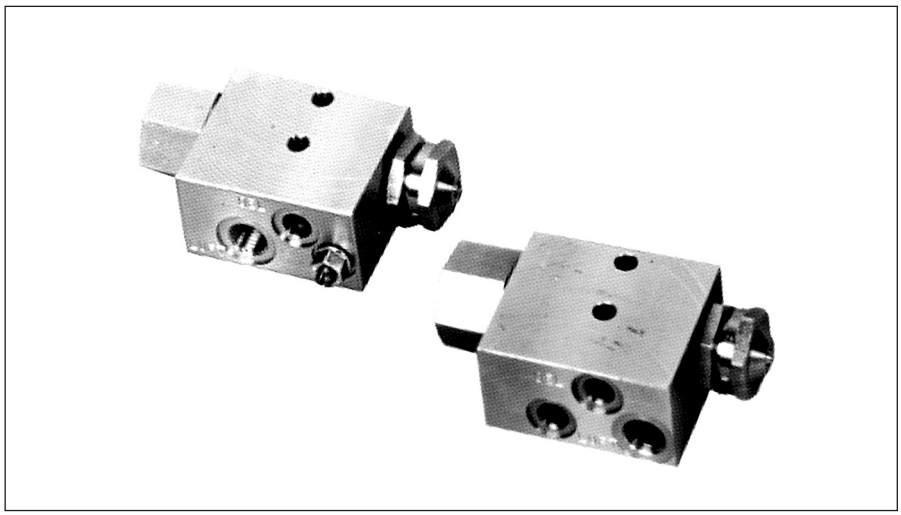
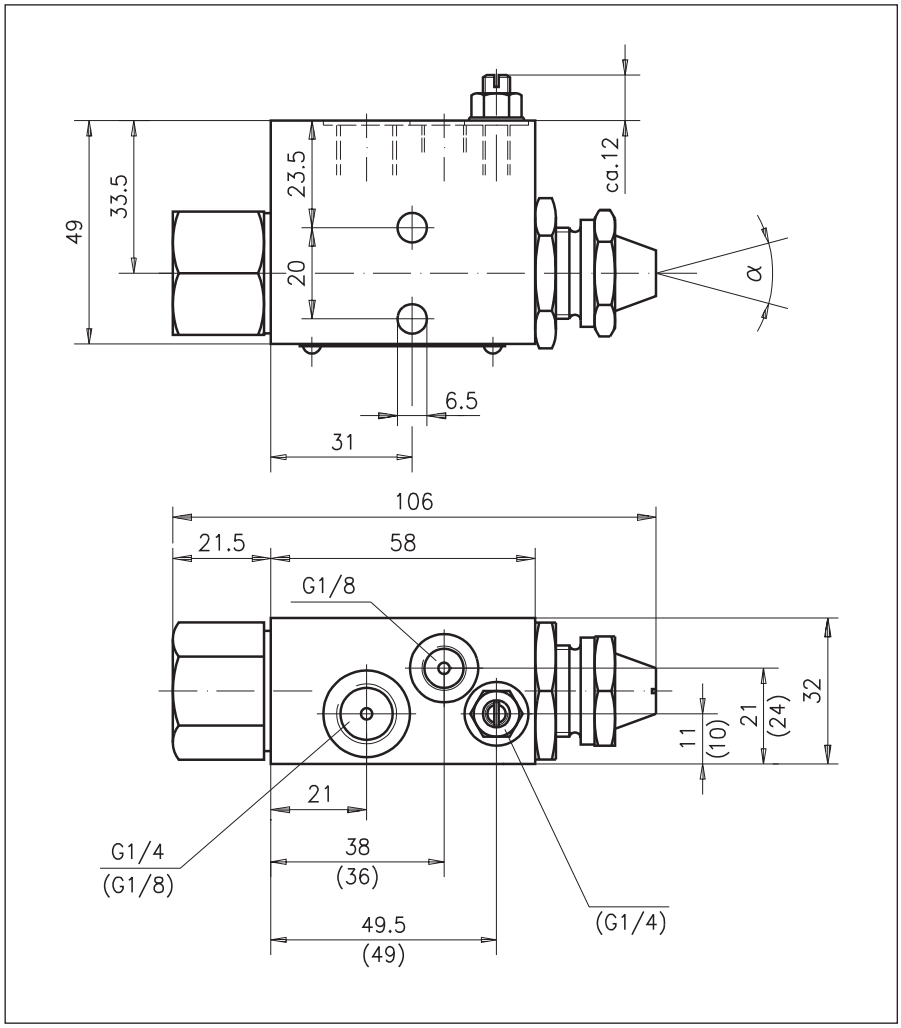
WOERNER
The Experts in Lubrication

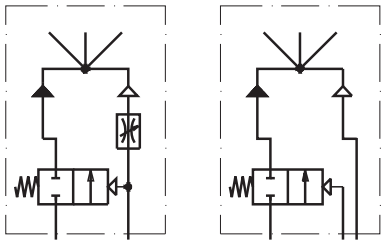




Instructions to dimensional drawing:
Clamp measurement are for version 2

Air controlled mixing nozzles SBE-A

Version 1 Version 2



Media:

- Oil/Air
- Water/Air
- Emulsion/Air
- Grease/Air

Technical data:

Medium pressure:		... 20 bar
Air pressure:		
Version 1:		3 ... 16 bar
Version 2:	Spray air:	up to 16 bar
	Control air:	3 ... 16 bar
Liquid volume quantity		
for nozzle R1/F1		
at 5 bar:		
Oil	160 cSt:	430 cm³/min
Oil	600 cSt:	150 cm³/min
Water:		1000 cm³/min
at 16 bar:		
Oil	160 cSt:	700 cm³/min
Oil	600 cSt:	360 cm³/min
Water:		1200 cm³/min
Liquid volume quantity		
for nozzle R2/F2:		please confer with us
Material:		
Media contacted parts:		Stainless steel or brass
Media contacted gaskets:		Viton
Other gaskets:		Perbunan

Spraying angle α:
at nozzle R1/R2: approx. 20° ... 40°
at nozzle F1/F2: please confer with us

The spraying angle α depends
- on the medium,
- on the pressure,
- on the nozzle diameter,
- on the nozzle shape (round/flat),
- on the air flap position.

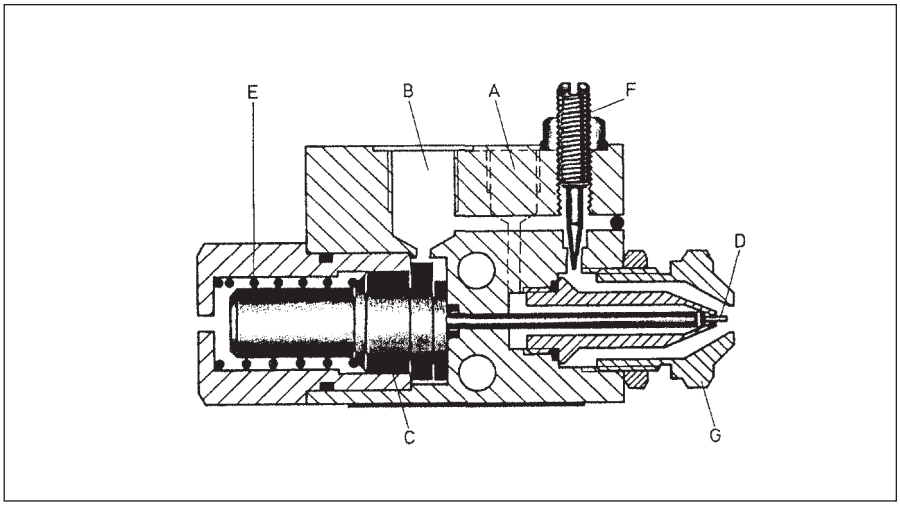
Depending on the purpose of use, the required air flap position shall be determined by tests.

- Subject to modifications -

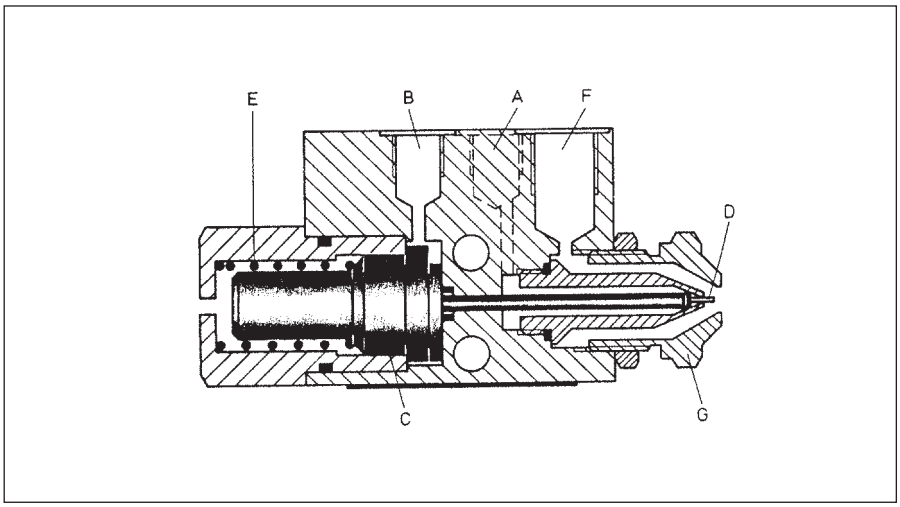
EUGEN WOERNER GmbH & Co. KG
Postfach 1661 DE-97866 Wertheim
Am Eichamt 8 DE-97877 Wertheim
Tel. +49 (0) 9342 803-0 info@woerner.de
Fax.+49 (0) 9342 803-202 www.woerner.de

Leaflet-No. **0210.11.06 EN**
Replaces No. 0210.05.01 EN

Version 1:



Version 2:



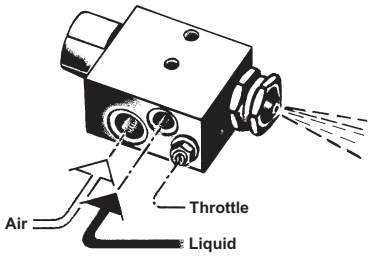
Order-designation: Mixing nozzle SBE-A

Version	Material	Nozzle
Mutual air inlet for spray air and control air, with spray air throttle (1)	Stainless steel (V)	Round spray nozzle ∅1 (for oil) (R1) Round spray nozzle ∅1,5 (for grease) (R2) Flat spray nozzle ∅1 (for oil) (F1) Flat spray nozzle ∅1,5 (for grease) (F2)
Separate spray air- and separate control air inlet (2)	Brass (M)	

Description of function:

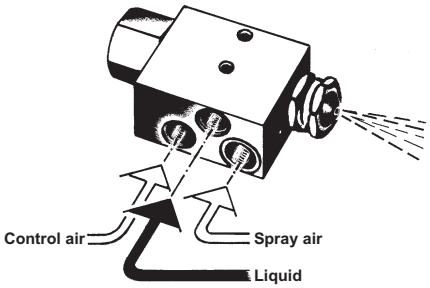
Version 1:

The spray media will be supplied under pressure at inlet "A".
When connecting the air (inlet "B") piston "C" will be removed with needle "D", that the media has free outlet. The quantity of spray air will be determined by an adjustable throttle. When turning off the air, spring "E" presses the piston with the needle into the initial position and shuts the media outlet. At the same time the nozzle drilling will be pushed through.



Version 2:

Same as version 1, the spraying air quantity, however, needs to be determined externally.
Caution: The spraying air (inlet "F") must be applying at least as long as the control air is available.



Note:
By turning air flap "G", the spraying angle is set.
(Turning the air flap back will cause the air throughput to decrease with the spraying angle becoming smaller;
turning the air flap forward will cause the air throughput and the spraying angle to increase).

Ordering-example:
Mixing nozzle SBE-A; version 1; material stainless steel; with round spray nozzle ∅ 1 (for oil)

Order-designation: SBE-A / 1 / V / R1

EUGEN WOERNER GmbH & Co. KG
Postfach 1661 DE-97866 Wertheim
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Fax.+49 (0) 9342 803-202 www.woerner.de