

PASSION FOR TECHNOLOGY

# **VN8** Needle valve round bead

# Applikator

German / **English** Subject to change - 22.06.2023 www.atngmbh.com

## **Functional description**

The application of one-component materials is carried out via the applicator. The material flow is controlled with the help of a needle valve, which is moved by means of pneumatic pressure to open or close the application nozzle. This allows precise control of the material application. The applicator is flange-fitted, which allows its flexible placement to suit process requirements: individually, directly on the dosing unit, on a robot or on a fixed unit (application tower).

## **Product characteristics**

- Last component in the actual application process
- Stationary or robot-guided application
- Application of one-component materials
- Application of round beads
- Needle valve



### General technical data

#### Unheated

Dimensions (WxDxH)Nozzle stock 140 mm134,2 mm x 99 mm x 307,9 mmNozzle stock 200 mm134,2 mm x 99 mm x 365,9 mmMass3,1 kgOperating voltage-Rated voltage-Frequency-PowerMax. temperature-Max. temperature100 barMax. pressure250 barAir supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valveNozzle diameter1.0 = 5.5 mm		
Nozzle stock 200 mm134,2 mm x 99 mm x 365,9 mmMass3,1 kgOperating voltage-Rated voltage-Frequency-Power-Power-Max. temperature-Max. pressure100 barMax. pressure250 barAir supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Dimensions (WxDxH)	
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Power-Max. temperature-Max. temperature100 barApplication pressure100 barMax. pressure250 barAir supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Rated voltage	-
- Max. temperature - Application pressure 100 bar Max. pressure 250 bar Air supply 6 bar Material connection Flange; G1/8" Air connection (pneumatic) Hose diameter: 6 mm Thread: G1/8" Housing material AL, optional SS Valve type Needle valve	Frequency	-
Application pressure100 barMax. pressure250 barAir supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Power	-
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Max. pressure250 barAir supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Max. temperature -	
Air supply6 barMaterial connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Application pressure	100 bar
Material connectionFlange; G1/8"Air connection (pneumatic)Hose diameter: 6 mm Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Max. pressure	250 bar
Air connection (pneumatic) Hose diameter: 6 mm   Thread: G1/8"   Housing material AL, optional SS   Valve type Needle valve	Air supply	6 bar
Thread: G1/8"Housing materialAL, optional SSValve typeNeedle valve	Material connection	Flange; G1/8"
Housing materialAL, optional SSValve typeNeedle valve	Air connection (pneumatic)	Hose diameter: 6 mm
Valve type Needle valve		Thread: G1/8"
	Housing material	AL, optional SS
Nozzle diameter 10 – 55 mm	Valve type	Needle valve
	Nozzle diameter	1,0 - 5,5 mm

#### Heated

Dimensions (WxDxH)	
Nozzle stock 140 mm	147,7 mm x 99 mm x 307,9 mm
Nozzle stock 200 mm	147,7 mm x 99 mm x 365,9 mm
Mass	3,2 kg
Operating voltage	230V AC
Rated voltage	230V - 277V
Frequency	50/60 Hz
Power	200W - 290W Valve body heating
	200W - 290W Valve body heating
Max. temperature	100 °C
Application pressure	100 bar
Max. pressure	250 bar
Air supply	6 bar
Material connection	Flange; G1/8"
Air connection (pneumatic)	Hose diameter: 6 mm
	Thread: G1/8"
Housing material	AL, optional SS
Valve type	Needle valve
Nozzle diameter	1,0 – 5,5 mm



## Ambient conditions / ambient temperature

#### Unheated

Storage and transport Operation 0 - 55 °C 10 - 40 °C

#### Heated

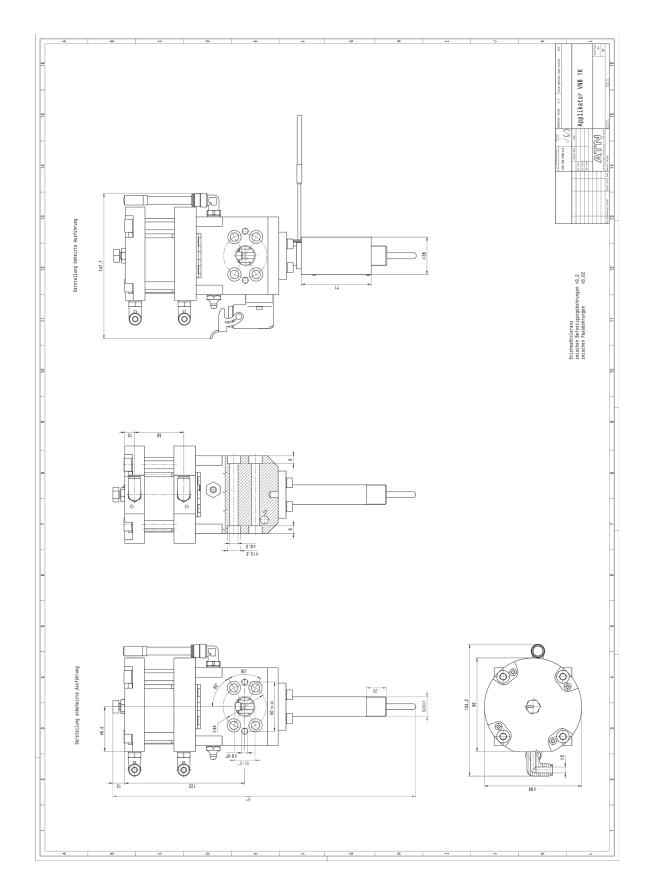
Storage and transport	0 - 55 °C
Operation	10 - 40 °C

# Applicable materials

PVC and other sealants	Heating of the applicators
SMP adhesives	Variable configuration of nozzle lenght
Epoxy resins	Variable configuration of nozzle diameter
Butyl rubber	Stationary or robot-guided
PU adhesive	Extendable to a 2C-system
Acrylics	Optional version in stainless steel



## Technical drawing



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