# Valve gate nozzle type 8NEST

## Single nozzle with conventional heating element

### TECHNICAL DATA

**8NEST**

| | |
|---|---|
| **Needle Ød** | 3 mm |
| **Melt channel Ød** | 7.5 mm |
| **Gate point Ød** | 1.6, 2.0 or 2.5 mm |
| **Operating pressure** | 8 to 10 bar |
| **Operating voltage** | 230 $V_{AC}$* |

**Nominal length of the nozzle (L) in mm**

| 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 |
|---|---|---|---|---|---|---|---|
| □ | ■ | ■ | ■ | □ | □ | □ | □ |

*Volts alternating current

■ *available* □ *on request*

### NOTE

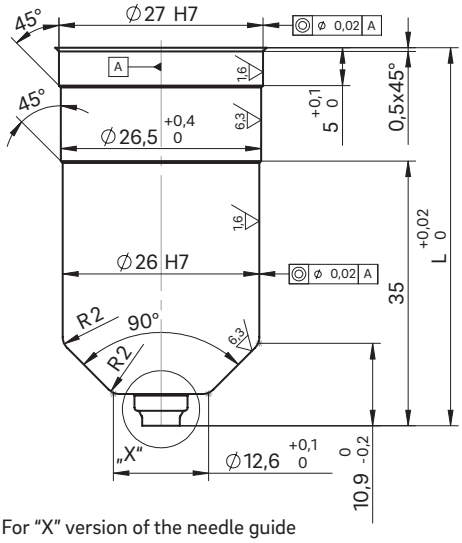
Power connector CMT and thermocouple connector CMLK are to be ordered separately.

**Feed and discharge lines for operating the needle**

Preferably, channels with a minimum dia. of 6 mm and a minimum length of 200 mm are to be used. Feed/discharge lines are to be placed in the heated mould plate to prevent overheating of the compressed air. The temperature should lie between 40 °C and 70 °C.
In the case of mould temperatures exceeding the thermal stress limit of the pneumatic valves, a separate air cooler is to be installed.
Pneumatic hose inner dia. of at least 6 mm.
Pneumatic valve size of at least 750 l/min.

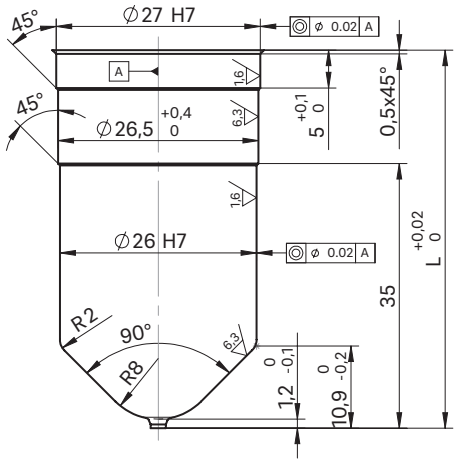
**WEBCODE**
31010

Nozzle with needle guide
antechamber design LA

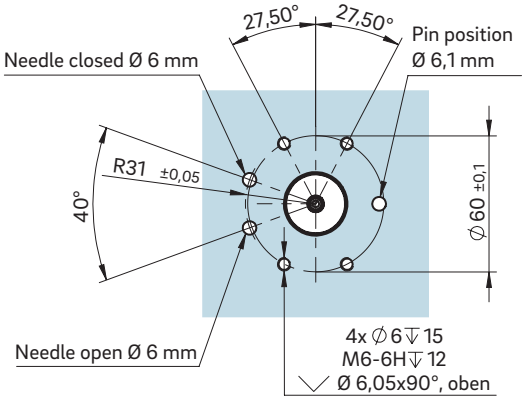



For "X" version of the needle guide
see following page

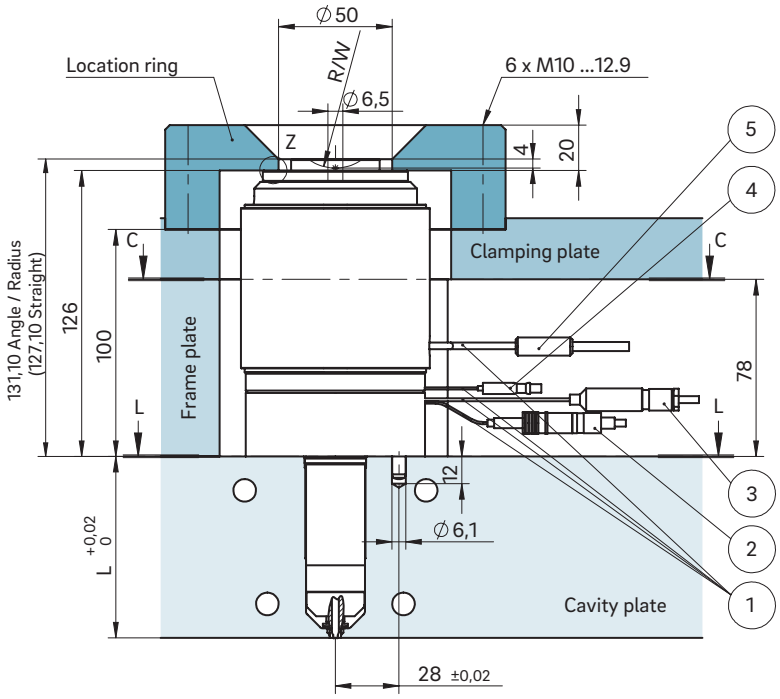
Nozzle with needle guide
antechamber design KA



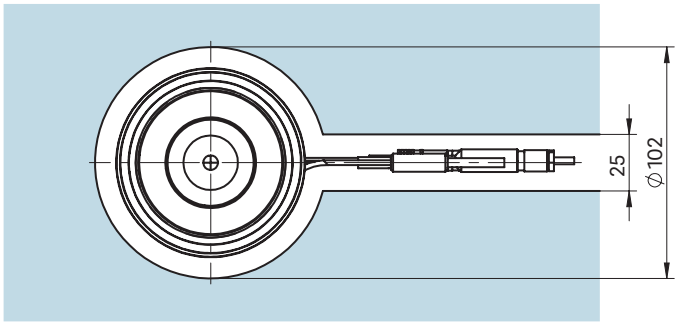

Cross-section L-L: Hole for feed/discharge air,
fastening thread and centring/positioning pin




## INSTALLATION

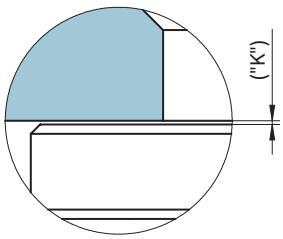



Cross-section C-C: Cutout for nozzle head, power and thermocouple plug connections




① Power and thermocouple plug connections in this area can be bent once; minimum radius: R8
② Thermocouple connector CMLK
③ Power connector CMT
④ Permanent thermocouple plug connection
⑤ Permanent power connection

Detail "Z"




Dimension "K" required for heat expansion is to be ensured by grinding the location ring! Determine the difference between the height of the nozzle (with mount) and the height of the structure when installed! ΔT specifies the temperature differential between the processing temperature and the mould temperature!
A pre-tension of 0.03 mm is taken into account for the K dimensions.

| ΔT (°C) | 100 | 150 | 200 | 250 | 300 | 350 |
|---|---|---|---|---|---|---|
| K (mm) | 0.09 | 0.16 | 0.23 | 0.29 | 0.36 | 0.42 |