



## NVS and NVSplus Needle Valve-Control System

### Ahead of the competition: Data visualisable via hot runner controller

One of the most recent Fiege electronic top performers is the newly developed needle valve-control of the NVS and NVS plus series. Combined with the temperature controllers (software version 3 and above), both the needle valve-control and the also newly developed Fiege pressure measurement system can be visualised through an existing hot runner control device. With this development, Fiege yet again sets the standard in terms of ease of operation. NVS is optionally available with end position control and can be used irrespective of the hot runner manufacturer.

### The main features in brief:

- ✓ Compact add-on device
- ✓ For 4 to 32 zones in steps of 4
- ✓ 24V DC control mechanism
- ✓ Operation via TP hot runner control devices
- ✓ Flexible visualisation

### Technical Information

#### Housing:

Aluminium, colour RAL 5010 gentian blue, special colours available upon request

#### Dimension/weight:

Acc. "Device model,, table(see below)

#### Channels:

4 to 32 in 4 steps

#### Operation/Visualisation:

Any hot runner controllers to the „TP“ or „VARIO“ series (From program version 3.0)

#### Switch output:

24VDC /1.25A=30W per channel,

#### Stroke control:

Up to 1000 mm, accuracy 0.1 mm

#### Time control:

Up to 600 secs, accuracy 0.1 sec

#### End position control:

Solenoid valve monitoring with alarm notification

#### Control inputs:

Contact inputs for: machine activation, injection process and end pressure

#### Alarm notification:

Shown on display as well as dry alarm contact on the control unit

#### Interfaces:

1X Ethernet on the series „TP“ or „VARIO“ control interface (LAN1)  
1X Ethernet for external use (LAN2)

#### Mould connection:

See diagram of the equipment or customised description upon request

#### Power supply:

230 VAC +10...-10%, 50...60 Hz, 1P / N / PE, other voltages upon request

#### Control fuse:

MT 6.3 A, 5X20 mm fuse

#### Main connector:

Mains cable with schuko plug length 4 m

#### Ambient temperature

Operation 0...+50°C, storage-30...+70°C

#### Air conditioning Application class:

According to DIN 40 040, relative air humidity  $\leq$  75% annual average, non condensing

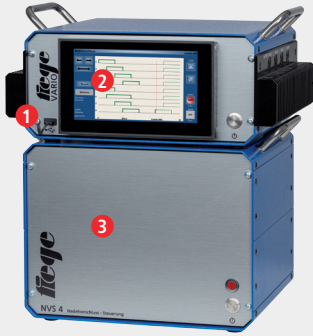
#### Protective system:

IP 20

#### Protection class:

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## User interface



1. Hot runner controller
2. Visualisation
3. Needle Valve Control System

## Device rear view



1. Solenoid valve connection
2. Controlling signals of the machine
3. Way sensor connection
4. Power supply
5. 2 x Ethernet connection

Depending on specification, the rear view may differ from this picture.

## Device models

Channels	Standard	Type-no.	With end position controls	Type-no.	Size(mm) B x H x T	Weight app. (kg)
4	NVS 4	1500-0000-04	NVS 4 plus	1510-0000-04	341 x 260 x 250	8
8	NVS 8	1500-0000-08	NVS 8 plus	1510-0000-08		
12	NVS 12	1500-0000-12	NVS 12 plus	1510-0000-12		
16	NVS 16	1500-0000-16	NVS 16 plus	1510-0000-16		
20	NVS 20	1500-0000-20	NVS 20 plus	1510-0000-20	341 x 345 x 250	12
24	NVS 24	1500-0000-24	NVS 24 plus	1510-0000-24		
28	NVS 28	1500-0000-28	NVS 28 plus	1510-0000-28		
32	NVS 32	1500-0000-32	NVS 32 plus	1510-0000-32		

0000: will be replaced by a custom version number in the case of special equipment

## Features

- 24 V DC control mechanism for pneumatic and hydraulic solenoid valves
- Available with end position controls
- Control, use and tool management is achieved using the series' hot runner controllers „TP“ or „VARIO“ (from program version 3.0)
- The injection process can be controlled by means of screw strokes or injection time manipulation
- There are 5 switching operations available per channel and cycle
- Manual control is a component required for starting the system and during maintenance work

## Accessories

### Product

Way sensor	Up to 1000 mm upon request
Connection cable for way sensor:	
Connection cable for machine signals	Upon request
Connection cable for valve actuation	
Connection for limit switches	



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Do you have any questions about our products?

Our service advisors will be happy to help.