



Needle Valve-Control System **NVS** and **NVS plus** Series



Properties

- Compact key modules for 4 to 32 channels in steps of 4
- 24 V DC control mechanism for pneumatic and hydraulic solenoid valves
- Available with end position controls
- Control, use and mould management is achieved using the series' hot runner controllers **fitron TTP** and **JETmaster TTP** (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
- Applicable regardless of brand
- Clear graphic process description
- Contact inputs are, depending on the model, the machine signals „start“, „injection start“ as well as „hold pressure“ on the machines
- An analogue input for connecting a way sensor is available depending on the model
- The specifications for the needle valve and hot runner temperature are stored on mould data records and are compatible with all **TTP** - series devices.

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Technical data

Housing:	Aluminum, Paint RAL 5010 gentian blue, special colour on request
Dimension / weight:	According to „Equipment designs“ table
Channels:	4 to 32 in steps of 4
Operation / Visualisation:	Any hot runner controllers of the fitron TP and JETmaster TP 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 to the fitron TP and JETmaster TP control interface, 1x Ethernet for external use
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
Climatic application class:	According to DIN 40 040, relative air humidity ≤ 75% annual average, non condensing
Protection type:	IP20
Protection class:	I
Safety:	Produced in accordance with IEC 348 (DIN VDE 0411)
CE marking:	EMC in accordance with 89 / 336 / EEC, EN 50081-2, EN 50082 - 2



Equipment designs

Chan-nels	Standard	Item no.:	with end position controls	tem no.:	Dimensions (mm) W x H x D	Weight approx.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	341 x 260 x 250	8
12	NVS 12	1500-0000-12	NVS 12 plus	1510-0000-12	341 x 260 x 250	8
16	NVS 16	1500-0000-16	NVS 16 plus	1510-0000-16	341 x 260 x 250	8
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	341 x 345 x 250	12
28	NVS 28	1500-0000-28	NVS 28 plus	1510-0000-28	341 x 345 x 250	12
32	NVS 32	1500-0000-32	NVS 32 plus	1510-0000-32	341 x 345 x 250	12

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

Subject to change.

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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