Needle Valve-Control System

**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 TP* and *JETmaster TP* (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 *TP* - series devices.
**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

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**Equipment designs**

<table>
<thead>
<tr>
<th>Channels</th>
<th>Standard</th>
<th>Item no.:</th>
<th>with end position controls</th>
<th>Item no.:</th>
<th>Dimensions (mm) W x H x D</th>
<th>Weight approx (kg)</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>NVS 4</td>
<td>1500-0000-04</td>
<td>NVS 4 plus</td>
<td>1510-0000-04</td>
<td>341 x 260 x 250</td>
<td>8</td>
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<td>NVS 8</td>
<td>1500-0000-08</td>
<td>NVS 8 plus</td>
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<tr>
<td>12</td>
<td>NVS 12</td>
<td>1500-0000-12</td>
<td>NVS 12 plus</td>
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<tr>
<td>16</td>
<td>NVS 16</td>
<td>1500-0000-16</td>
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<tr>
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<td>NVS 20</td>
<td>1500-0000-20</td>
<td>NVS 20 plus</td>
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<tr>
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<td>1500-0000-24</td>
<td>NVS 24 plus</td>
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<tr>
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<td>NVS 28</td>
<td>1500-0000-28</td>
<td>NVS 28 plus</td>
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<td>32</td>
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<td>1500-0000-32</td>
<td>NVS 32 plus</td>
<td>1510-0000-32</td>
<td>341 x 345 x 250</td>
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**Accessories**

<table>
<thead>
<tr>
<th>Product</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Way sensor</td>
<td>Up to 1000 mm upon request</td>
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<tr>
<td>Connection cable for way sensor:</td>
<td></td>
</tr>
<tr>
<td>Connection cable for machine signals</td>
<td></td>
</tr>
<tr>
<td>Connection cable for valve actuation</td>
<td></td>
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<tr>
<td>Connection for limit switches</td>
<td>Upon request</td>
</tr>
</tbody>
</table>

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