750 multi-function Series encloses 8 separately controlled shutters in a single body. Its base version has 8 outputs with the following configurations:
- four 3/2 NC outlets
- four 3/2 NO outlets.
- two 2/2 NC outlets.
- two 2/2 NO inverted flow outlets.

The extreme modularity of 750 Series allows the arrangement of an almost unlimited number of customized configurations. For this aim, contact your local dealer or MATRIX technical staff.

750 multi-function Series is particularly fit for the control of intricate pneumatic systems, where different functions are integrated.

In the present model, all the innovations offered by Matrix technology (this combines special dynamic performance to the simplicity and reliability of manufacture) are present. Response times are of millisecond range, while operation life is over 500 million cycles.

With a speed-up kind control, dynamic characteristics are even more improved. Standard 12/24 VDC control solenoid valves have a response time lower than 5 ms in opening and than 2 ms in closing, with a maximum operation frequency 200 Hz. Speed-up control solenoid valves have a response time lower than 2 ms both in opening and in closing, with a maximum operation frequency of 300 Hz.

Besides high-speed characteristics, 750 Series solenoid valves offer flow rate values up to 100 l/minute (ANR) for every single outlet, with feeding (supply) pressure from 0 to 8 bar.

For 750 multi-function series, a lot of accessories is available, such as IP 52 or IP 56 connectors, manifolds with different positions and speed-up driver boards.

Advantages
- Compact dimension.
- Short response times.
- Insensitivity to frequency work and to vibrations.
- Low absorbed power.
- Precision, repetitiveness and flexibility.
- Long operating life.

Applications
- Process and precision instrumentation.
- Pressure and flow rate control devices.
- Positioning systems.
- Biomedical and measure sector.
- Robotics and industrial automation.

Materials
- Body in PPS.
- Flanges in Al.
- Seals in NBR (shutters in HNBR if required).
**CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK**

![Diagram of a machine component with dimensions and labels.](image)

**OUTLETS**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Quantity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2/2 NC</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>PUSH-IN FITTING Ø 10</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
<td>PUSH-IN FITTING Ø 4/3</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>SILENCER</td>
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**ACCESSORIES**

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</thead>
<tbody>
<tr>
<td>2/2 NC</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2/2 NA</td>
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**NOTE:** Inch size available

**ELECTRICAL PORT CONNECTION**

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<tr>
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</tr>
<tr>
<td>1 - 2</td>
<td>3/2 NC</td>
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<td>3 - 4</td>
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<tr>
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</table>

(1) Inverted flow

**FLOW RATE [M]**

![Diagram of flow rate graph with pressure and flow rate values.](image)

On = 87 N/min
C = 15.3 N/min bar
b = 0.35

**Voltages: V1 = 24 VDC, V2 = 5 VDC**

**Tension run:**

- Pressure run
- Tension run
- Voltage V1 = 24 VDC
- Voltage V2 = 5 VDC
- Time t1 = 2 ms

**3/2 NC**

- Outlet 3/2 NC