750 Series 2/2 and 2/3 encloses in a single body eight shutters in NC or NO configuration. The series modularity allows to have at disposal a single outlet or 2, 4, 8 independent outlets. All innovations offered by Matrix technology are present. Said characteristics couple manufacturing simplicity and ability of dynamic high-performances. Response times are of millisecond range, while operation life is over 500 million cycles. The Series includes the Vacuum versions designed for uses with vacuum technique. Due to the facility to be speed-up controlled, dynamic characteristics are even more improved; standard solenoid valves equipped with 24 VDC control present response times lower than 5 ms in opening and 2 ms in closing, with a maximum operation frequency 200 Hz. On the contrary, solenoid valves equipped with speed-up control present a response time both in opening and closing lower than 2 ms, with a maximum operation frequency 300 Hz.

Besides high-speed characteristics, solenoid valves 720 Series offer flow rate value to 100 l/minute (ANR), with supply pressure from 0 to 8 bar.

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

---

**Advantages**

- Compact dimension.
- High duct diameter and flow rate.
- 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.
- Pilot system.
- Selection systems.
- Metering systems.
- Biomedical and measure sector.

**Materials**

- Body in PPS.
- Flanges in Al. (in INOX if required).
- Seals in NBR. (shutters in HNBR if required).
### GENERAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Non-lubricated dry air, neutral gases (–10 + 50°C)</td>
</tr>
<tr>
<td>Filtration Rating</td>
<td>Min 40 micron</td>
</tr>
<tr>
<td>Temperature</td>
<td>– 10 + 50°C (Standard version)</td>
</tr>
<tr>
<td>Response Time in Opening</td>
<td>12 / 24 &lt; 7 ms</td>
</tr>
<tr>
<td>Response Time in Closing</td>
<td>12 / 24 &lt; 3 ms</td>
</tr>
<tr>
<td>Maximum Frequency</td>
<td>100 Hz</td>
</tr>
<tr>
<td>Weight</td>
<td>380 g</td>
</tr>
<tr>
<td>Product Life Expectancy</td>
<td>≥ 500 M/s cycles</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP 52 - IP 62 - IP 65</td>
</tr>
</tbody>
</table>

### IDENTIFICATION CODE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>ORIFICES</td>
</tr>
<tr>
<td>X</td>
<td>OUTLETS</td>
</tr>
<tr>
<td>7</td>
<td>Standard</td>
</tr>
<tr>
<td>5</td>
<td>HNBR Shutters</td>
</tr>
<tr>
<td>1</td>
<td>No. ELECTRICAL CONTROLS</td>
</tr>
<tr>
<td>1</td>
<td>1 Control</td>
</tr>
<tr>
<td>2</td>
<td>2 Controls</td>
</tr>
<tr>
<td>4</td>
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<td>8</td>
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<tr>
<td>C</td>
<td>FUNCTION</td>
</tr>
<tr>
<td>2</td>
<td>TYPE</td>
</tr>
<tr>
<td>22</td>
<td>CONTROL TENSION</td>
</tr>
<tr>
<td>12</td>
<td>12 VDC ± 10 %</td>
</tr>
<tr>
<td>24</td>
<td>24 VDC ± 10 %</td>
</tr>
<tr>
<td>JJ</td>
<td>Speed-up in current</td>
</tr>
<tr>
<td>XX</td>
<td>Speed-up in tension</td>
</tr>
<tr>
<td>V</td>
<td>OPERATING PRESSURE</td>
</tr>
<tr>
<td>10^{-5}</td>
<td>Torr</td>
</tr>
<tr>
<td>C</td>
<td>SPECIAL PROTECTIONS</td>
</tr>
<tr>
<td>22</td>
<td>RANGE</td>
</tr>
<tr>
<td>All</td>
<td>MODELS</td>
</tr>
</tbody>
</table>

### CONTROL:

- **DIRECT**
- **PFM**
- **PNM**
- **PWM**

### Special Protections

- **M**: Stainless steel (INOX) flanges
- **N**: EPOX BLACK varnished flanges
**CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK**

- **N.B. KK MODELS ARE CONTROLLED IN TENSION**
  - $V_1 = 24$ VDC
  - $I_1 = 2$ ms
  - $V_2 = 5$ VDC

**CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX**

- **N.B. XX MODELS ARE CONTROLLED IN CURRENT**
  - $I_1 = 5.6$ A
  - $I_2 = 2.4$ A

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Quantity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>VACUUM FITTING $\phi$ 10/8</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>VACUUM FITTING $\phi$ 10/8</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>PLUG</td>
</tr>
</tbody>
</table>

*NOTE: Inch size available*

**ELECTRICAL PORT CONNECTION**

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>1 CONTROL</th>
<th>2 CONTROLS</th>
<th>4 CONTROLS</th>
<th>8 CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>COMMON</td>
<td>COMMON</td>
<td>COMMON</td>
<td>COMMON</td>
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<tr>
<td>BROWN</td>
<td>COMMON</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>RED</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>ORANGE</td>
<td></td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>YELLOW</td>
<td></td>
<td></td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>GREEN</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>BLUE</td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>VIOLET</td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>GREY</td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>
**GENERAL CHARACTERISTICS**

- **FLUID**: Non-lubricated dry air, neutral gases (-10 + 50°C)
- **FILTRATION RATING**: Mx 40 micron
- **TEMPERATURE**: -10 + 50°C (Standard version)
- **RESPONSE TIME IN OPENING**: 12 / 24 < 7 ms  JJ < 5 ms  XX / KK < 2 ms
- **RESPONSE TIME IN CLOSING**: 12 / 24 < 3 ms  JJ < 2 ms  XX / KK < 2 ms
- **MAXIMUM FREQUENCY**: 100 Hz  200 Hz  300 Hz
- **WEIGHT**: 330 g
- **PRODUCT LIFE EXPECTANCY**: ≥ 500 M/s cycles
- **IP RATING**: IP 62 - IP 62 - IP 65

**IDENTIFICATION CODE**

- **H X 7 5 2 2 0 V C 2 2 4**

- **ORIFICES**
  - H: ø ex = 1.8 mm
  - B: ø ex = 2.6 mm
  - M: ø ex = 3.0 mm (control tension JJ XX KK)

- **VERSION**
  - Standard
  - H: HNBR Shutters

- **No. ELECTRICAL CONTROLS**
  - 2: 2 Controls
  - 4: 4 Controls
  - 8: 8 Controls
  - C: 4 Controls / Integrated diodes with common 0 V
  - D: 8 Controls / Integrated diodes with common 0 V
  - F: 4 Controls / Integrated diodes with common 12 / 24 V
  - G: 8 Controls / Integrated diodes with common 12 / 24 V

- **OUTLETS**
  - 2: 2 Outlets

- **FUNCTION**
  - A: NO
  - C: NC

- **TYPE**
  - 2: 2/2

- **CONTROL TENSION**
  - 12: 12 VDC ± 10%  ED 100%  1.4 - 5.8W
  - 24: 24 VDC ± 10%  ED 100%  1.2 - 5.0W
  - JJ: 24 VDC ± 10%  ED 100%  1.9 - 7.6W
  - XX: Speed-up in current  ED 100%  —
  - KK: Speed-up in tension  ED 100%  —

  *Only with Electronic Driver Boards PRB or UDB*

- **OPERATING PRESSURE**
  - V: 10^-5 Torr

- **PORT CONNECTION**
  - 0: Integrated cables  IP 62  L = 500 mm
  - E: Presetting for Easy connection  IP 52 - IP 65 (only 4 and 8 controls)

- **SPECIAL PROTECTIONS**
  - Only with EASY IP 65 port connection
  - M: Stainless steel (INOX) flanges
  - N: EPOX BLACK varnished flanges
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

N.B. KK MODELS ARE CONTROLLED IN TENSION

V₁ = 24 VDC  |  t₁ = 2 ms  |  V₂ = 5 VDC

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

N.B. XX MODELS ARE CONTROLLED IN CURRENT

I₁ = 2.8 A  |  t₁ = 2 ms  |  I₂ = 1.2 A

ELECTRICAL PORT CONNECTION

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>2 CONTROLS (SINGLE CABLES)</th>
<th>2 CONTROLS (DUAL CONNECTION P.3)</th>
<th>4 CONTROLS (OUTLET)</th>
<th>8 CONTROLS (OUTLET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>COMMON</td>
<td>COMMON</td>
<td>COMMON</td>
<td>COMMON</td>
</tr>
<tr>
<td>BROWN</td>
<td>1</td>
<td>1</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>RED</td>
<td>2</td>
<td>2 (1)</td>
<td>2 (1)</td>
<td>2 (1)</td>
</tr>
<tr>
<td>ORANGE</td>
<td>—</td>
<td>2 (2)</td>
<td>3 (2)</td>
<td>3 (1)</td>
</tr>
<tr>
<td>YELLOW</td>
<td>—</td>
<td>4 (2)</td>
<td>4 (1)</td>
<td></td>
</tr>
<tr>
<td>GREEN</td>
<td>—</td>
<td>5 (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLUE</td>
<td>—</td>
<td>6 (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIOLET</td>
<td>—</td>
<td>7 (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GREY</td>
<td>—</td>
<td>8 (2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**General Characteristics**

- **Fluid**: Non-lubricated dry air, neutral gases (~10 - 50°C)
- **Filtration Rating**: Min. 40 micron
- **Temperature**: -10 to +50°C (Standard version)
- **Response Time in Opening**:
  - 12 / 24 V: 7 ms
  - JJ: 5 ms
  - XX / KK: < 2 ms
- **Response Time in Closing**:
  - 12 / 24 V: 3 ms
  - JJ: < 2 ms
  - XX / KK: < 2 ms
- **Maximum Frequency**: 100 Hz, 200 Hz, 300 Hz
- **Weight**: 340 g
- **Product Life Expectancy**: ≥ 500 M/s cycles
- **IP Rating**: IP 52 - IP 62 - IP 65

---

**Identification Code**

- **Outlets**: 4
- **Orifices**:
  - H: ø 1.3 mm
  - B: ø 1.8 mm
  - M: ø 2.1 mm (control tension JJ, XX, KK)
- **Version**:
  - Standard
  - H: HNBR Shutters
- **No. Electrical Controls**:
  - 4: 4 Control
  - 8: 8 Control
  - C: 4 Controls / Integrated diodes with common 0 V
  - D: 8 Controls / Integrated diodes with common 0 V
  - F: 4 Controls / Integrated diodes with common 12/24 V
  - G: 8 Controls / Integrated diodes with common 12/24 V
- **Function**:
  - A: NO
  - C: NC
- **Type**:
  - 2: 2/2
- **Control Tension**:
  - 12 VDC ± 10%: ED 100% 1.4 - 2.9 W
  - 24 VDC ± 10%: ED 100% 1.2 - 2.5 W
  - JJ: 24 VDC ± 10%: ED 100% 1.9 - 3.8 W
  - XX: Speed-up in current ED 100% —
  - KK: Speed-up in tension ED 100% —
  - *(1)* Only with Electronic Driver Boards PRB or UDB
- **Operating Pressure**
  - **Range**: 10⁻⁵ Torr
  - **Models**: All

---

**Port Connection**

- 0: Integrated cables IP 62 L = 500 mm
- E: Presetting for Easy connection IP 52 - IP 65

**Special Protections**

- V: Only with EASY IP 65 port connection
- M: Stainless steel (INOX) flanges
- N: EPOX BLACK varnished flanges
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

N.B. KK MODELS ARE CONTROLLED IN TENSION

V1 = 24 VDC  \( t_1 = 2 \) ms  \( V_2 = 5 \) VDC

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

N.B. XX MODELS ARE CONTROLLED IN CURRENT

I1 = 1.4 A  \( t_1 = 2 \) ms  \( I_2 = 0.6 \) A

ELECTRICAL PORT CONNECTION

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>4 CONTROLS</th>
<th>8 CONTROLS (OUTLET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>COMMON</td>
<td>COMMON</td>
</tr>
<tr>
<td>BROWN</td>
<td>1</td>
<td>1 (1)</td>
</tr>
<tr>
<td>RED</td>
<td>2</td>
<td>2 (1)</td>
</tr>
<tr>
<td>ORANGE</td>
<td>3</td>
<td>3 (2)</td>
</tr>
<tr>
<td>YELLOW</td>
<td>4</td>
<td>4 (2)</td>
</tr>
<tr>
<td>GREEN</td>
<td>—</td>
<td>5 (3)</td>
</tr>
<tr>
<td>BLUE</td>
<td>—</td>
<td>6 (3)</td>
</tr>
<tr>
<td>VIOLET</td>
<td>—</td>
<td>7 (4)</td>
</tr>
<tr>
<td>GREY</td>
<td>—</td>
<td>8 (4)</td>
</tr>
</tbody>
</table>
**GENERAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>FLUID</th>
<th>Non-lubricated dry air, neutral gases (−10 + 50°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTRATION RATING</td>
<td>Min 40 micron</td>
</tr>
<tr>
<td>TEMPERATURE</td>
<td>−10 + 50°C (Standard version)</td>
</tr>
<tr>
<td>RESPONSE TIME IN OPENING</td>
<td>12 / 24 &lt; 7 ms JJ &lt; 5 ms XX / KK &lt; 2 ms</td>
</tr>
<tr>
<td>RESPONSE TIME IN OPENING</td>
<td>12 / 24 &lt; 3 ms JJ &lt; 2 ms XX / KK &lt; 2 ms</td>
</tr>
<tr>
<td>MAXIMUM FREQUENCY</td>
<td>100 Hz 200 Hz 300 Hz</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>350 g</td>
</tr>
<tr>
<td>PRODUCT LIFE EXPECTANCY</td>
<td>≥ 500 M/s cycles</td>
</tr>
<tr>
<td>IP RATING</td>
<td>IP 52 - IP 62 - IP 65</td>
</tr>
</tbody>
</table>

**IDENTIFICATION CODE**

<table>
<thead>
<tr>
<th>H</th>
<th>X</th>
<th>7</th>
<th>5</th>
<th>8</th>
<th>8</th>
<th>E</th>
<th>V</th>
<th>C</th>
<th>2</th>
<th>2</th>
<th>4</th>
</tr>
</thead>
</table>

- **OUTLETS**
  - 8 8 Outlets

- **ORIFICES**
  - H Ø ≈ 0.9 mm
  - B Ø ≈ 1.3 mm
  - M Ø ≈ 1.5 mm (control tension JJ, XX, KK)

- **VERSION**
  - Standard
  - H HNBR Shutters

- **No. ELECTRICAL CONTROLS**
  - 8 8 Control
  - D 8 Controls / Integrated diodes with common 0 V
  - G 8 Controls / Integrated diodes with common 12/24 V

- **FUNCTION**
  - A NO
  - C NC

- **TYPE**
  - 2 2/2

- **CONTROL TENSION**
  - 12 12 VDC ± 10 % ED 100 % 1.4 W
  - 24 24 VDC ± 10 % ED 100 % 1.2 W
  - JJ 24 VDC ± 10 % ED 100 % 1.9 W
  - XX Speed-up in current ED 100 % —
  - KK Speed-up in tension ED 100 % —
  - (1) Only with Electronic Driver Boards PRB or UDB

- **PORT CONNECTION**
  - 0 Integrated cables IP 62 L = 500 mm
  - E Presetting for Easy connection IP 52 - IP 65

- **SPECIAL PROTECTIONS**
  - Only with EASY IP 65 port connection
  - M Stainless steel (INOX) flanges
  - N EPOX BLACK varnished flanges

- **OPERATING PRESSURE**
  - RANGE MODELS
  - V 10⁻³ Torr All
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

N.B. KK MODELS ARE CONTROLLED IN TENSION

V₁ = 24 VDC  t₁ = 2 ms  V₂ = 5 VDC

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

N.B. XX MODELS ARE CONTROLLED IN CURRENT

I₁ = 0.7 A  t₁ = 2 ms  I₂ = 0.3 A

ELECTRICAL PORT CONNECTION

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>8 CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>COMMON</td>
</tr>
<tr>
<td>BROWN</td>
<td>1</td>
</tr>
<tr>
<td>RED</td>
<td>2</td>
</tr>
<tr>
<td>ORANGE</td>
<td>3</td>
</tr>
<tr>
<td>YELLOW</td>
<td>4</td>
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<td>GREEN</td>
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</tr>
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<td>BLUE</td>
<td>6</td>
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<tr>
<td>VIOLET</td>
<td>7</td>
</tr>
<tr>
<td>GREY</td>
<td>8</td>
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</tbody>
</table>
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

<table>
<thead>
<tr>
<th>V1</th>
<th>V2</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VDC</td>
<td>5 VDC</td>
</tr>
</tbody>
</table>

**N.B. KK MODELS ARE CONTROLLED IN TENSION**

<table>
<thead>
<tr>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ms</td>
<td>5,6 A</td>
</tr>
</tbody>
</table>

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

<table>
<thead>
<tr>
<th>V1</th>
<th>V2</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VDC</td>
<td>5 VDC</td>
</tr>
</tbody>
</table>

**N.B. XX MODELS ARE CONTROLLED IN CURRENT**

<table>
<thead>
<tr>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ms</td>
<td>2,4 A</td>
</tr>
</tbody>
</table>

ELECTRICAL PORT CONNECTION

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>1 CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>COMMON</td>
</tr>
<tr>
<td>RED</td>
<td>1</td>
</tr>
</tbody>
</table>
752 VACUUM • 3/2

CONTROL: DIRECT

N. 2 NC

N. 2 NO

GENERAL CHARACTERISTICS

FLUID: Non-lubricated dry air, neutral gases (-10 + 50°C)
FILTRATION RATING: Min 40 micron
TEMPERATURE: -10 + 50°C (Standard version)
RESPONSE TIME IN OPENING: 12 / 24 < 7 ms JJ < 5 ms XX / KK < 2 ms
RESPONSE TIME IN CLOSING: 12 / 24 < 3 ms JJ < 2 ms XX / KK < 2 ms
MAXIMUM FREQUENCY: 100 Hz 200 Hz 300 Hz
WEIGHT: 330 g
PRODUCT LIFE EXPECTANCY: ≥ 500 M/s cycles
IP RATING: IP 52 - IP 62

IDENTIFICATION CODE

H  X  7  5  2  2  0  V  C  3  2  4

• ORIFICES
  H Ø eq = 1.8 mm
  B Ø eq = 2.6 mm
  M Ø eq = 3.0 mm (control tension JJ XX KK)

• VERSION
  Standard
  H HNBR Shutters

• OUTLETS
  2  2 Outlets

• No. ELECTRICAL CONTROLS
  2  2 Control

• FUNCTION
  A NO
  C NC

• TYPE
  3  3/2

• CONTROL TENSION
  12  12 VDC ± 10 %  ED 100 %  5.6 W
  24  24 VDC ± 10 %  ED 100 %  5.0 W
  JJ  24 VDC ± 10 %  ED 100 %  7.6 W
  XX Speed-up in current ED 100 % —
  KK Speed-up in tension ED 100 % —
  (1) Only with Electronic Driver Boards PRB or USB

• OPERATING PRESSURE

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>10⁻⁵ Torr</td>
</tr>
</tbody>
</table>

• PORT CONNECTION
  0 Integrated cables IP 62  L = 500 mm
  E Presetting for Easy connection IP 52
**GENERAL CHARACTERISTICS**

- **FLUID**: Non-lubricated dry air, neutral gases (−10 °C to 50°C)
- **Filtration Rating**: Min 40 micron
- **Temperature**: −10°C to 50°C (Standard version)
- **Response Time in Opening**: 12 / 24 < 7 ms, JJ < 5 ms, XX / KK < 2 ms
- **Response Time in Closing**: 12 / 24 < 3 ms, JJ < 2 ms, XX / KK < 2 ms
- **Maximum Frequency**: 100 Hz, 200 Hz, 300 Hz
- **Weight**: 340 g
- **Product Life Expectancy**: ≥ 500 M/s cycles
- **IP Rating**: IP 52 - IP 62 - IP 65

**IDENTIFICATION CODE**

- **H**: 4 Controls
- **X**: No. Electrical Controls
- **7**: OUTLETs: 4 / 4 Outlets
- **5**: ORIFICEs: O₂ = 1.3 mm
- **4**: ORIFICEs: O₂ = 1.8 mm
- **4**: ORIFICEs: O₂ = 2.1 mm (control tension JJ XX KK)
- **E**: TYPE: 3 / 3/2
- **V**: Standard
- **C**: HNBR Shutters
- **3**: FUNCTION: A NO, C NC
- **2**: Control Tension: 12 VDC ± 10 %, 24 VDC ± 10 %, JJ 24 VDC ± 10 %, XX, KK
- **4**: Operating Pressure: V 10⁻⁵ Torr, All
- **0**: Port Connection: O Integrated cables IP 62, L = 500 mm, E Presetting for Easy connection IP 52 - IP 65
- **N**: Special Protections: Only with EASY IP 65 port connection, M Stainless steel (INOX) flanges, N EPOX BLACK varnished flanges
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

V1 = 24 VDC  \( i_1 = 2 \text{ ms} \)  \( V_2 = 5 \text{ VDC} \)

N.B. KK MODELS ARE CONTROLLED IN TENSION

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

\( i_1 = 1.4 \text{ A} \)  \( t_1 = 2 \text{ ms} \)  \( i_2 = 0.6 \text{ A} \)

N.B. XX MODELS ARE CONTROLLED IN CURRENT

ELECTRICAL PORT CONNECTION

<table>
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<tr>
<th>COLOUR</th>
<th>4 CONTROL</th>
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<td>YELLOW</td>
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</table>
758 VACUUM • 3/2

CONTROL: DIRECT

N. 8 NC

N. 8 NO

GENERAL CHARACTERISTICS

FLUID: Non-lubricated dry air, neutral gases (−10 + 50°C)
FILTRATION RATING: Min 40 micron
TEMPERATURE: −10 + 50°C (Standard version)
RESPONSE TIME IN OPENING: 12/24 < 7 ms; JJ < 5 ms; XX/KK < 2 ms
RESPONSE TIME IN CLOSING: 12/24 < 3 ms; JJ < 2 ms; XX/KK < 2 ms
MAXIMUM FREQUENCY: 100 Hz; 200 Hz; 300 Hz
WEIGHT: 350 g
PRODUCT LIFE EXPECTANCY: ≥ 500 M/s cycles
IP RATING: IP 52 - IP 62 - IP 65

IDENTIFICATION CODE

H X 7 5 8 8 E V C 3 2 4

- ORIFICES
  H Ø eq. = 0.9 mm
  B Ø eq. = 1.3 mm
  M Ø eq. = 1.5 mm (control tension JJ, XX, KK)

- VERSION
  Standard
  H HNBR Shutters

- OUTLETS
  8 8 Outlets

- FUNCTION
  A NO
  C NC

- TYPE
  3 3/2

- No. ELECTRICAL CONTROLS
  8 8 Controls
  D 8 Controls / Integrated diodes with common 0 V
  G 8 Controls / Integrated diodes with common 12/24 V

- PORT CONNECTION
  0 Integrated cables IP 62 L = 500 mm
  E Presetting for Easy connection
  IP 52 - IP 65

- SPECIAL PROTECTIONS
  M Stainless steel (INOX) flanges
  N EPOX BLACK varnished flanges

- OPERATING PRESSURE
  V 10-5 Torr
  MODELS: All

- CONTROL TENSION
  12 12 VDC ± 10% ED 100% 1.4 W
  24 24 VDC ± 10% ED 100% 1.2 W
  JJ 24 VDC ± 10% ED 100% 1.9 W
  XX Speed-up in current ED 100% (1) —
  KK Speed-up in tension ED 100% (1) —

(1) Only with Electronic Driver Boards PRB or UDB
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

V1 = 24 VDC  \( t_1 = 2 \) ms  \( V_2 = 5 \) VDC

N.B. KK MODELS ARE CONTROLLED IN TENSION

CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

I1 = 0.7 A  \( t_1 = 2 \) ms  I2 = 0.3 A

N.B. XX MODELS ARE CONTROLLED IN CURRENT

ACCESSORIES

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NOTE: Pitch size available

ELECTRICAL PORT CONNECTION

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