2/2-way coaxial valve Ex

Type 290-X

direct acting modular design

function A: NC (normally closed)
function B: NO (normally open)

diameter: DN 10, DN 15
pressure range: 0 – max. 20 bar
body material: single valve: brass
block: aluminium
seal material: static: PTFE
dynamic: PTFE
seat seal: PTFE

back pressure leakproof up to max. 16 bar
media: -20 up to +40 °C
ambient: -30 up to +40 °C

connection: valve: G1/4 – G3/4
block: G1/2 – G1 1/2

flow direction: P → A max. 20 bar
A → P max. 16 bar
electrical connection: cable connection M16 x 1.5
nominal voltage: 230V 50Hz, 24V DC
voltage tolerance: + / - 10 % acc. VDE 0580
duty factor: 100% ED
explosion proof: II 2G Ex en II T4
II 2 D IIC A21 IP65 T130 °C
mounting: in any position
### 2/2-way coaxial valve Ex

#### Type 290-X

<table>
<thead>
<tr>
<th>type</th>
<th>DN [mm]</th>
<th>pressure range [bar]</th>
<th>connection</th>
<th>flow rate [m³/h]</th>
<th>power consumption [W]</th>
<th>weight - brass [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>290-X</td>
<td>10</td>
<td>0 – 20</td>
<td>G1/4, G3/8, G1/2</td>
<td>2.5</td>
<td>29</td>
<td>2.3</td>
</tr>
<tr>
<td>290-X</td>
<td>15</td>
<td>0 – 20*</td>
<td>G3/8, G1/2, G3/4</td>
<td>5.2</td>
<td>30</td>
<td>4.3</td>
</tr>
</tbody>
</table>

#### Sectional Drawing

![Sectional Drawing](image)

#### Description

<table>
<thead>
<tr>
<th>pos.</th>
<th>quantity</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>fitting left</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>block module</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>plunger</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>valve seat</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>solenoid</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>cable connection</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>end cover</td>
</tr>
<tr>
<td>8</td>
<td>3</td>
<td>distance piece</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>spring</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>PTFE-rod seal</td>
</tr>
</tbody>
</table>
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Type 290-X

dimension drawing

<table>
<thead>
<tr>
<th>DN</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>G1/2, G3/4, G1, G1 1/4</td>
<td>28</td>
<td>42</td>
<td>67</td>
<td>27</td>
<td>69.5</td>
<td>187</td>
<td>1/4, 3/8, 1/2</td>
<td>8</td>
<td>M6</td>
<td>70</td>
<td>21</td>
</tr>
<tr>
<td>15</td>
<td>G1, G1 1/4, G1 1/2</td>
<td>34</td>
<td>32</td>
<td>82</td>
<td>32</td>
<td>79.5</td>
<td>216.5</td>
<td>3/8, 1/2, 3/4</td>
<td>10</td>
<td>M8</td>
<td>80</td>
<td>25</td>
</tr>
</tbody>
</table>
2/2-way coaxial valve Ex

**Type code**

Structure of the order specification:

- **Voltage**
  - 230V 50Hz
  - 24V DC

- **Connecting kit**
  - R = right
  - L = left

- **Number of modules**
  - 1
  - 2
  - 3
  - ...

- **Panel**
  - F = FM
  - N = NBR (optional)
  - E = EPDM (optional)

- **Connection**
  - G16 = G1/4
  - G38 = G3/8
  - G12 = G1/2
  - G34 = G3/4

- **Material**
  - M0 = brass
  - V2 = AISI 303
  - V4 = AISI 316

- **Diameter**
  - 10 = DN 10
  - 15 = DN 15

- **Electrical option**
  - 00 = without option

- **Mechanical option**
  - 00 = without option
  - 07 = special connection
  - 12 = vacuum version
  - 15 = mounting brackets
  - 16 = free of oil and grease

- **Function**
  - A = NC
  - B = NC

- **Type**
  - 250 = pressure range
  - DN 10 – DN15, 0 – 20 bar
### 2/2-way coaxial valve Ex

#### Type 290-X

#### Accessories

<table>
<thead>
<tr>
<th>Connecting Pieces</th>
<th>End Covers</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Isolation disc" /></td>
<td><img src="image" alt="End cover right" /></td>
</tr>
<tr>
<td><img src="image" alt="Distance piece" /></td>
<td><img src="image" alt="End cover left" /></td>
</tr>
</tbody>
</table>

#### Connection Parts

<table>
<thead>
<tr>
<th>Connection Part Right</th>
<th>Connection Part Left</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Connection part right" /></td>
<td><img src="image" alt="Connection part left" /></td>
</tr>
</tbody>
</table>
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**Type 290-X**

<table>
<thead>
<tr>
<th>further options</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="mounting_bracket.png" alt="Mounting Bracket" /></td>
</tr>
<tr>
<td><strong>mounting brackets</strong></td>
</tr>
<tr>
<td><strong>mechanical option = 15</strong></td>
</tr>
</tbody>
</table>

We gladly coordinate further options and accessories with your requirements.