NEWS 62

Components for Pneumatic Automation

Solenoid valves ECO 22

PNEUMAX GREEN LINE: TECHNOLOGY & INNOVATION
General

Competitively priced, good performance and versatility combined with a compact design are the main characteristics of this new series of valves. The aluminium valve body and spool/seal arrangement optimize both the flow rate and the valve switching time.

This new series of valves are available with G1/8” and G1/4” ports in 3/2, 5/2 and 5/3 versions. Monostable or bistable versions are available and include an integrated technopolymer solenoid operator with 9mm stem and built in manual override.

The valves can be supplied with or without the solenoid coil, however, if the solenoid coil is required please refer to the following table:

<table>
<thead>
<tr>
<th>Volumes</th>
<th>Coil Code</th>
<th>Voltage Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct current DC 24V</td>
<td>MF5</td>
<td>F05</td>
</tr>
<tr>
<td>Alternating current AC</td>
<td>MF56</td>
<td>F56</td>
</tr>
<tr>
<td>50 Hz</td>
<td>220V</td>
<td>F58</td>
</tr>
<tr>
<td>110V</td>
<td>MF57</td>
<td>F57</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connectors Ordering codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volumes</td>
</tr>
<tr>
<td>DC/AC 24V</td>
</tr>
<tr>
<td>Alternating current AC</td>
</tr>
<tr>
<td>50 - 60 Hz</td>
</tr>
</tbody>
</table>

Construction characteristics

<table>
<thead>
<tr>
<th>Body</th>
<th>Operators</th>
<th>Spools</th>
<th>Seals</th>
<th>Pistons</th>
<th>Springs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
<td>Technopolymer</td>
<td>Aluminium for spring bottom plates</td>
<td>NBR</td>
<td>Technopolymer</td>
<td>Spring steel</td>
</tr>
</tbody>
</table>

Use and maintenance

These valves have an average life of 15 million cycles depending on the application and air quality, filtered and lubricated air using specified lubricants will dramatically reduce the wear of the seals and ensures long and trouble free operation. Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature and that exhaust ports 3 & 5 are protected against the possible ingress of dirt or debris. Repair kits including the spool complete with seals are available for overhauling the valves; however, although this is a simple operation it should be carried out by a competent person.
Solenoid valves 3/2 - 5/2 - 5/3

**G 1/8”**

### Solenoid - Spring - 3/2

**Ordering code**

8880.32.00.39.

- **Self-feeding**

- **FUNCTION**
  - A: Normally Open
  - C: Normally Closed

- **VOLTAGE**
  - F05=24 V DC
  - FS=24 V (50-60 Hz)
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

- **Weight**: gr. 210
- **Minimum working pressure**: 2 bar

<table>
<thead>
<tr>
<th>Operating Characteristics</th>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 8 bar with Δp=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 to +50</td>
<td>790</td>
<td>5.8</td>
<td>G 1/8”</td>
</tr>
</tbody>
</table>

### Solenoid - Spring - 5/2

**Ordering code**

8880.52.00.39.

- **Self-feeding**

- **VOLTAGE**
  - F05=24 V DC
  - FS=24 V (50-60 Hz)
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

- **Weight**: gr. 220
- **Minimum working pressure**: 2 bar

<table>
<thead>
<tr>
<th>Operating Characteristics</th>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 8 bar with Δp=1 (Nl/min)</th>
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<tr>
<td></td>
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<td>8</td>
<td>-5 to +50</td>
<td>790</td>
<td>5.8</td>
<td>G 1/8”</td>
</tr>
</tbody>
</table>

### Solenoid - Solenoid - 3/2

**Ordering code**

8880.32.00.35.

- **VOLTAGE**
  - F05=24 V DC
  - FS=24 V (50-60 Hz)
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

- **Weight**: gr. 310
- **Minimum working pressure**: 2 bar

<table>
<thead>
<tr>
<th>Operating Characteristics</th>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
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<td>-5 to +50</td>
<td>790</td>
<td>5.8</td>
<td>G 1/8”</td>
</tr>
</tbody>
</table>
Series 888

Solenoid valves 3/2 - 5/2 - 5/3

G 1/8"

### Solenoid - Solenoid - 5/2

**Ordering code**

8880.52.00.35.

**Specifications**

- **VOLTAGE**
  - F56=24 V DC
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

**Weight**

- 320 gr.

**Minimum working pressure**

- 2 bar

**Operating Characteristics**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with Δp=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 ÷ +50</td>
<td>790</td>
<td>5,8</td>
<td>G 1/8&quot;</td>
</tr>
</tbody>
</table>

### Solenoid - Solenoid - 5/3

**Ordering code**

8880.53.00.35.

**Specifications**

- **FUNCTION**
  - 31=Closed centres
  - 32=Open centres
  - 33=Pressured centres

- **VOLTAGE**
  - F56=24 V DC
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

**Weight**

- 330 gr.

**Minimum working pressure**

- 2.5 bar

**Operating Characteristics**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with Δp=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 ÷ +50</td>
<td>440</td>
<td>5,8</td>
<td>G 1/8&quot;</td>
</tr>
</tbody>
</table>
### Solenoid valves 3/2 - 5/2 - 5/3

#### G 1/4"

**Specifications may be subject to change without prior notice.**

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### Solenoid - Spring - 3/2

**Ordering code**

8884.32.0.39.39.

**Function**

- A = Normally Open
- C = Normally Closed

**VOLTAGE**

- F05 = 24 V DC
- F56 = 24 V (50-60 Hz)
- F57 = 110 V (50-60 Hz)
- F58 = 220 V (50-60 Hz)
- F00 = Without coil

**Weight**

210 g

**Minimum working pressure**

2 bar

#### Operating Characteristics

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with ∆p=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 ÷ +50</td>
<td>880</td>
<td>6,5</td>
<td>G 1/4&quot;</td>
</tr>
</tbody>
</table>

---

### Solenoid - Spring - 5/2

**Ordering code**

8884.52.00.39.39.

**Function**

Self-feeding

**VOLTAGE**

- F05 = 24 V DC
- F56 = 24 V (50-60 Hz)
- F57 = 110 V (50-60 Hz)
- F58 = 220 V (50-60 Hz)
- F00 = Without coil

**Weight**

220 g

**Minimum working pressure**

2 bar

#### Operating Characteristics

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with ∆p=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 ÷ +50</td>
<td>880</td>
<td>6,5</td>
<td>G 1/4&quot;</td>
</tr>
</tbody>
</table>

---

### Solenoid - Solenoid - 3/2

**Ordering code**

8884.32.00.35.35.

**Function**

Self-feeding

**VOLTAGE**

- F05 = 24 V DC
- F56 = 24 V (50-60 Hz)
- F57 = 110 V (50-60 Hz)
- F58 = 220 V (50-60 Hz)
- F00 = Without coil

**Weight**

310 g

**Minimum working pressure**

2 bar

#### Operating Characteristics

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with ∆p=1 (Nl/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 ÷ +50</td>
<td>880</td>
<td>6,5</td>
<td>G 1/4&quot;</td>
</tr>
</tbody>
</table>
Series 888

Solenoid valves 3/2 - 5/2 - 5/3
G 1/4"

### Solenoid - Solenoid - 5/2

**Ordering code**

8884.52.00.35.

**Specifications**

- **VOLTAGE**
  - F56=24 V DC
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

- **Weight**: gr. 320
- **Minimum working pressure**: 2 bar

**Operating Characteristics**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with $\Delta p=1$ (NL/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 to +50</td>
<td>890</td>
<td>6,5</td>
<td>G 1/4&quot;</td>
</tr>
</tbody>
</table>

### Solenoid - Solenoid - 5/3

**Ordering code**

8884.53.35.

**Specifications**

- **FUNCTION**
  - 31=Closed centres
  - 32=Open centres
  - 33=Presured centres

- **VOLTAGE**
  - F56=24 V DC
  - F57=110 V (50-60 Hz)
  - F58=220 V (50-60 Hz)
  - F00=Without coil

- **Weight**: gr. 330
- **Minimum working pressure**: 2.5 bar

**Operating Characteristics**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Max working pressure (bar)</th>
<th>Operating Temperature °C</th>
<th>Flow rate at 6 bar with $\Delta p=1$ (NL/min)</th>
<th>Orifice size (mm)</th>
<th>Working port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered and lubricated air</td>
<td>8</td>
<td>-5 to +50</td>
<td>540</td>
<td>6,5</td>
<td>G 1/4&quot;</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without prior notice.
Solenoid valves G1/8" - G 1/4"

Accessories - Manifolds

Manifold (Valves 5/2 - 5/3)

Ordering code

888.

<table>
<thead>
<tr>
<th>N. POSITIONS</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>02=nr. 2 pos.</td>
<td>270 gr</td>
</tr>
<tr>
<td>03=nr. 3 pos.</td>
<td>335 gr</td>
</tr>
<tr>
<td>04=nr. 4 pos.</td>
<td>400 gr</td>
</tr>
<tr>
<td>05=nr. 5 pos.</td>
<td>465 gr</td>
</tr>
<tr>
<td>06=nr. 6 pos.</td>
<td>530 gr</td>
</tr>
<tr>
<td>07=nr. 7 pos.</td>
<td>595 gr</td>
</tr>
<tr>
<td>08=nr. 8 pos.</td>
<td>660 gr</td>
</tr>
<tr>
<td>09=nr. 9 pos.</td>
<td>725 gr</td>
</tr>
<tr>
<td>10=nr. 10 pos.</td>
<td>790 gr</td>
</tr>
<tr>
<td>12=nr. 12 pos.</td>
<td>920 gr</td>
</tr>
<tr>
<td>16=nr. 16 pos.</td>
<td>1180 gr</td>
</tr>
</tbody>
</table>

Manifold supplied complete with Seals, Valve fixing screws and DIN rail fixing pin.

Closing plate

Ordering code

888.00

Weight gr. 18
Closing plate supplied complete with 2 fixing screws to the manifold and 2 fixing screws to the multi-polar base.

Specifications may be subject to change without prior notice.
Series 888
Solenoid valves G1/8" - G 1/4"
Accessories - Integral electrical connections

Endplate, 37 Poles IP65

Ordering code
888M.37.10

Weight gr. 186
The IP65 protection is obtained by IP65 Pneumax cable
Code complete with assembled endplate and 4 manifold fixing screws, previously mounted on the Manifold.

Endplate, 25 Poles IP65

Ordering code
888M.25.10

Weight gr. 181
The IP65 protection is obtained by IP65 Pneumax cable
Code complete with assembled endplate and 4 manifold fixing screws, previously mounted on the Manifold.

Modular base, 2 positions IP65

Ordering code
888M.02.BM

Weight gr. 220
Complete with seals and fixing screws
Usable only for 5/2 and 5/3 Distributors

Specifications may be subject to change without prior notice.
Solenoid valves G1/8" - G 1/4"
Accessories - Integral electrical connections

Left and Right Power board PNP 24 VDC

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>888M.P.1.T</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. POSITIONS</td>
<td>3=nr. 4 pos. (11.2 gr.)</td>
</tr>
<tr>
<td></td>
<td>8=nr. 8 pos. (22.4 gr.)</td>
</tr>
<tr>
<td></td>
<td>12=nr. 12 pos. (33.8 gr.)</td>
</tr>
<tr>
<td></td>
<td>16=nr. 16 pos. (44.8 gr.)</td>
</tr>
<tr>
<td>TYPE</td>
<td>1 = Left side</td>
</tr>
<tr>
<td></td>
<td>1 = Right side</td>
</tr>
</tbody>
</table>

The IP65 protection degree is guaranteed if assembled by Pneumax.

Closing plate

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>888M.22.PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight gr.</td>
<td>3</td>
</tr>
<tr>
<td>Description</td>
<td>Closing plate supplied complete with 1 Seal and fixing screw with O ring</td>
</tr>
<tr>
<td>Torque moment</td>
<td>0.35 Nm</td>
</tr>
</tbody>
</table>

Multipolar base plug

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>888M.T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight gr.</td>
<td>2.6</td>
</tr>
<tr>
<td>Description</td>
<td>Complete with: 1 Plug, 2 Fixing screws</td>
</tr>
</tbody>
</table>

Seals

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>888M.22.G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight gr.</td>
<td>0.52</td>
</tr>
</tbody>
</table>
### In line cable complete with connector IP40

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>2400.1.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONNECTORS</td>
<td>25=25 poles, 37=37 poles</td>
</tr>
<tr>
<td>CABLE LENGTH</td>
<td>10=10 meters, 15=15 meters</td>
</tr>
</tbody>
</table>

### Cable complete with connector, 25 Poles IP65

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>2300.25.l.c</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE LENGTH</td>
<td>10=10 meters, 15=15 meters, 20=20 meters</td>
</tr>
<tr>
<td>CONNECTORS</td>
<td>10=In line, 90=90° Angle</td>
</tr>
</tbody>
</table>

### Cable complete with connector, 37 Poles IP65

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>2400.37.l.c</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE LENGTH</td>
<td>10=10 meters, 15=15 meters, 20=20 meters</td>
</tr>
<tr>
<td>CONNECTORS</td>
<td>10=In line, 90=90° Angle</td>
</tr>
</tbody>
</table>
Manifold layout Configuration

### Point to Point

![Diagram](image)

**Nr. POSITIONS:**
- A = 02 positions
- B = 03 positions
- C = 04 positions
- D = 05 positions
- E = 06 positions
- F = 07 positions
- G = 08 positions
- H = 09 positions
- I = 10 positions
- M = 12 positions
- Q = 16 positions

**SHORT CODE FUNCTION / CONNECTION:**
- A1 = EV 5/2 SOL. - SPRING G1/8''
- A2 = EV 5/2 SOL. - SPRING G1/4''
- B1 = EV 5/2 SOL. - SOL. G1/8''
- B2 = EV 5/2 SOL. - SOL. G1/4''
- C1 = EV 5/3 CC SOL. - SOL. G1/8''
- C2 = EV 5/3 CC SOL. - SOL. G1/4''
- C3 = EV 5/3 OC SOL.-SOL. G1/8''
- C4 = EV 5/3 OC SOL.-SOL. G1/4''
- C5 = EV 5/3 PC SOL.-SOL. G1/8''
- C6 = EV 5/3 PC SOL.-SOL. G1/4''
- T3 = VALVE SPACE PLUG

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### Multi-pole

![Diagram](image)

**LEFT ENDPLATES**
- P2 = 25 poles (max. 11 Ev.)
- P3 = 37 poles (max. 16 Ev.)

**LEFT BOARD SIGNALS**
- C = 04 positions
- G = 08 positions
- M = 12 positions
- Q = 16 positions
- 00= no board

**RIGHT BOARD SIGNALS**
- C = 04 positions
- G = 08 positions
- M = 12 positions
- Q = 16 positions
- 00= no board

**SHORT CODE FUNCTION / CONNECTION:**
- A1 = EV 5/2 SOL. - SPRING G1/8''
- A2 = EV 5/2 SOL. - SPRING G1/4''
- B1 = EV 5/2 SOL. - SOL. G1/8''
- B2 = EV 5/2 SOL. - SOL. G1/4''
- C1 = EV 5/3 CC SOL. - SOL. G1/8''
- C2 = EV 5/3 CC SOL. - SOL. G1/4''
- C3 = EV 5/3 OC SOL.-SOL. G1/8''
- C4 = EV 5/3 OC SOL.-SOL. G1/4''
- C5 = EV 5/3 PC SOL.-SOL. G1/8''
- C6 = EV 5/3 PC SOL.-SOL. G1/4''
- T1 = VALVE SPACE PLUG

+ Nr. 2 ELECTRICAL SPACE PLUGS

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### Serial manifold layout (for the serial system node, see the Optyma-F Series)

![Diagram](image)

**INPUT MODULE**
- D1 = 8IN DIGITAL MODULE M8
- D2 = 16IN DIGITAL MODULE SUB-D 25 P
- T1 = 2IN ANALOG MODULE 0-5 V
- T2 = 2IN ANALOG MODULE 0-10 V
- C1 = 2IN ANALOG MODULE 0-20 mA
- C2 = 2IN ANALOG MODULE 4-20 mA

**SERIAL NODE**
- C3 = CANopen® 32 OUT - 32IN
- D3 = DeviceNet 32 OUT - 32IN
- P3 = PROFINBUS 32 OUT - 64IN
- E3 = EtherCAT® 32 OUT - 32IN
- I3 = EtherNet / IP 32 OUT - 64IN
- N3 = PROFINET I/O RT/IRT 32 OUT - 64IN

**LEFT BOARD SIGNALS**
- C = 04 positions
- G = 08 positions
- M = 12 positions
- Q = 16 positions
- 00= no board

**RIGHT BOARD SIGNALS**
- C = 04 positions
- G = 08 positions
- M = 12 positions
- Q = 16 positions
- 00= no board

**SHORT CODE FUNCTION / CONNECTION:**
- A1 = EV 5/2 SOL. - SPRING G1/8''
- A2 = EV 5/2 SOL. - SPRING G1/4''
- B1 = EV 5/2 SOL. - SOL. G1/8''
- B2 = EV 5/2 SOL. - SOL. G1/4''
- C1 = EV 5/3 CC SOL. - SOL. G1/8''
- C2 = EV 5/3 CC SOL. - SOL. G1/4''
- C3 = EV 5/3 OC SOL.-SOL. G1/8''
- C4 = EV 5/3 OC SOL.-SOL. G1/4''
- C5 = EV 5/3 PC SOL.-SOL. G1/8''
- C6 = EV 5/3 PC SOL.-SOL. G1/4''
- T1 = VALVE SPACE PLUG

+ Nr. 2 ELECTRICAL SPACE PLUGS

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**NOTE:**
When constructing the configuration, please consider that the maximum number of valves that can be mounted on the manifold is 16, regardless of the valve type. Any valve position presents two electrical connections: in case of use of monostable valves (A1-A2) it will be necessary to assemble a plug to protect the unused electrical connection.

The correspondence between the electrical signal and its location on the manifold is showed in the following diagrams.
Series 888

Solenoid valves G1/8" - G 1/4"

Manifold layout Configuration

Connector 25 Poles from 1 to 11
Positions E.V. Bistable / Monostable

Connector 37 Poles from 1 to 16
Positions E.V. Bistable / Monostable

1 - 22 = SIGNALS
23 - 24 = GND
25 = NC

1 - 32 = SIGNALS
33 - 35 = GND
36 - 37 = NC

Specifications may be subject to change without prior notice.
Assembly sequence

1. POSITION SEALS ON THE MODULAR SUB-BASE

2. POSITION THE PRE-LUBRICATED 'O' RINGS

3. POSITION THE FIRST MODULAR SUB-BASE USING THE 2 CAP HEAD SCREWS (ALLEN KEY 2.5)

4. ASSEMBLE SUB-BASE, ENSURE PRE-LUBRICATED 'O' RINGS STAY IN POSITION

5. ASSEMBLE PRE-LUBRICATED 'O' RINGS TO END PLATE

6. ASSEMBLE FINAL SUB-BASE WITH SCREWS

7. FIX END PLATE WITH 4 SCREWS, TORX TYPE T10 (MAX TORQUE 0.7 Nm)

8. ASSEMBLE PRINTED CIRCUIT BOARD IN THE MODULAR SUB-BASE HOUSING, PUSH UNTIL CONNECTION IS MADE WITH THE END PLATE

9. CHECK THE PRINTED CIRCUIT BOARD IS IN THE CORRECT POSITION BY LOOKING TO SEE IF IT'S ALIGNED WITH THE SUB BASE SLOTS OR BY INSERTING A COIL INTO POSITION

10. CLOSE THE LAST SUB-BASE USING PLUGS AND SCREWS (TORX T20)

11. FIT THE SEALS IN POSITION AND SLACKEN THE COIL RETAINING CAP BEFORE TIGHTENING THE VALVE TO THE SUB BASE WITH THE CAP HEAD SCREWS (0.7 Nm), TIGHTEN THE COIL RETAINING CAP

12. IF USING THE BLANKING PLATES ON THE ELECTRICAL CONNECTOR TIGHTEN TO A MAX 0.35 Nm TORQUE