EV Standard programme

EV METALVÆRK A/S
www.evmetal.dk

FITTINGS AND VALVES

- Flaire fittings
- Compression fittings
- Threaded pipe fittings
- Hose nipples
- Hoses and copper tubes
- Needle valves
- Check valves
- Safety valves
- Oil boiler accessories

-customer focus...
Fittings

**COLLAR SYSTEM (40 SERIES)**

Used for piping in the following installations:
- Oil
- LP gas
- Refrigeration
- Hydraulics
- Pneumatics

**Benefits:**
- Small nominal dimensions.
- Allow repeated dismantling.
- Vibration-resistant coupling.

<table>
<thead>
<tr>
<th>Thread, collar end:</th>
<th>Outside pipe diameter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8-24 UNF</td>
<td>5 mm</td>
</tr>
<tr>
<td>7/16-20 UNF</td>
<td>6 mm</td>
</tr>
<tr>
<td>1/2-20 UNF</td>
<td>8 mm</td>
</tr>
<tr>
<td>5/8-18 UNF</td>
<td>10 mm</td>
</tr>
<tr>
<td>3/4-16 UNF</td>
<td>12 mm</td>
</tr>
<tr>
<td>7/8-14 UNF</td>
<td>15 mm</td>
</tr>
<tr>
<td>7/8-14 UNF</td>
<td>16 mm</td>
</tr>
</tbody>
</table>

Material: CuZn39Pb3 (brass)
Temperature: -50°C/+120°C
Pressure: 135 bar
Thread on nipple/sleeve: Pipe thread (R, Rp), NPT

For use with piping of copper, brass, aluminium or steel.

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**COMPRESSION FITTINGS**

Used with a cone ring for the following applications:
- Oil
- Compressed air
- Water
- Hydraulics
- Pneumatics

**Benefits:**
- Small nominal dimensions.
- Piping systems can be assembled without a need for special tools.

<table>
<thead>
<tr>
<th>Outside pipe diameter:</th>
<th>Thread, connector end:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 mm</td>
<td>5/16-24 UNF</td>
</tr>
<tr>
<td>5 mm</td>
<td>3/8-24 UNF</td>
</tr>
<tr>
<td>6 mm</td>
<td>7/16-24 UNS</td>
</tr>
<tr>
<td>8 mm</td>
<td>1/2-24 UNS</td>
</tr>
<tr>
<td>3/8” (LB)</td>
<td>17/32-24 UN</td>
</tr>
<tr>
<td>10 mm</td>
<td>9/16-24 UNEF</td>
</tr>
<tr>
<td>12 mm</td>
<td>11/16-20 UN</td>
</tr>
<tr>
<td>15 mm</td>
<td>13/16-18 UN</td>
</tr>
<tr>
<td>16 mm</td>
<td>13/16-18 UN</td>
</tr>
<tr>
<td>20 mm</td>
<td>1/18 UNS</td>
</tr>
</tbody>
</table>

Material: CuZn39Pb3 (brass)
Temperature: -50°C/+120°C
Pressure: 135 bar
Thread on nipple/sleeve: UN/R, Rp, Gcyl, metric, NPT

For use with piping of copper, brass, aluminium or steel. Also suitable for soft plastic tubing (polyethylene, PVC, etc.) if a support bushing is used.
### Hose Nipples

**Products:**
- Straight
- Elbows
- Tees
- Swivel fittings
- Nipple connectors
- Pipe connectors
- Banjo nipples
- Tube caps

**Benefits:**
- Large range of sizes.
- Many connection possibilities

Most EV hose nipples are stocked as standard in non-coated brass. A few specific products are, however, stocked as standard in a coated version.

The hose nipples have been designed to cover as wide a range of applications as possible. Depending on hose type and application, it is usual to choose a hose nipple whose ridges are slightly wider than the inside diameter of the hose for which it is used.

**Material:** CuZn39Pb3 (brass)
**Temperature:** -50°C/+120°C
**Pressure:** 135 bar
**Thread:** R, Rp, Rc, G-cyl, metric, NPT, UNF

For use with piping of copper, brass, aluminium or steel. Also suitable for soft plastic tubing (polyethylene, PVC, etc.) if a support bushing is used.

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### Threaded Pipe Fittings

**Material:** CuZn39Pb3 (brass)
**Temperature:** -50°C/+120°C
**Pressure:** 135 bar
**Thread:** R, Rp, Rc, G-cyl, metric, NPT

Threaded pipe fittings have many applications and can be supplemented with other EV fittings and valves.

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### EV Fittings

**Products:**
- Adapters
- Sleeves
- Elbows
- Pipe nipples
- Sensor pockets
- Tees
- Couplings
- Reducers
- Pipe plugs
- Entries

**Benefits:**
- Many thread types.
- Small nominal dimensions.

The small nominal dimensions and large variety of thread types make threaded pipe fittings a useful supplement to other fittings systems. Threaded pipe fittings are installed using approved sealing methods. For example: packing yarn or Teflon tape.

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### Pipe Thread

**Products:**
- Adapters
- Sleeves
- Elbows
- Pipe nipples
- Sensor pockets
- Tees
- Couplings
- Reducers
- Pipe plugs
- Entries

**Benefits:**
- Many thread types.
- Small nominal dimensions.
**EV VALVES**

**Products:**
- Needle valves
- Check valves
- Lance valves
- Drain cocks
- Mini valves

**Applications:**
- Oil
- Gas
- Compressed air
- Water

EV offers a very wide selection of needle valves with a variety of threads and connection possibilities. Needle valves are available with a broad range of accessories or in special finishes depending on customer requirements. EV check valves are available in brass or stainless steel in a broad range of variants. They are suitable for gases and liquids and are also designed to facilitate alternating opening pressure differences.

**Material:** CuZn39Pb3 and stainless steel AISI 316L
**Max. pressure / temp., needle valves:** 250 bar / 200°C
**Max. return pressure / temp., check valves:** 40 bar / 200°C
**Thread:** Pipe thread R, Rp, Gcyl, NPT, UNF

**EV SAFETY VALVES**

**Safety valves:**
- Safety valves for steam
- Safety units
- Safety and regulating units
- Installation sets
- Quick vents

**Approved safety valves for use in:**
- Pressure vessels heated by electricity, oil, gas, steam or superheated water.
- Heat exchangers
- Hot water systems

Safety valves are available in hot-pressed brass with knob of heat resistant plastic and diaphragm and seat seal of temperature and aging resistant synthetic rubber. Non-certified valves are available for other opening pressures in the range 0.5 to 7 bar.

**Material:** CuZn40Pb2 (hot-pressed brass)
**Max. working temperature:** 140°C (briefly 185°C)
**Opening pressure:** 0.5 to 10 bar
**Thread:** Rkon / Gcyl, 3/4” pipe thread (C/C or N/C)

**Gas approval:** DG-0194. Needle valve 5100-47GT is approved for use in gas installations.

**Safety valves for low-pressure steam in the range 0.75 to 1.5 bar are certified and CE marked. CE marked valves are nickel plated.**
HOSES, COPPER PIPES, NYLON TUBES

Hose types:
- Nitrile rubber
- Silicone
- EPDM
- PTFE/Teflon(r)
- PVC

Applications:
- Oil
- Chemicals
- Gas
- Compressed air
- Fuels
- Medico
- Food

Pipes and tubes:
- Soft copper piping
- Copper piping (oil pipes)
- Nylon tubing (hard PA)

Hoses are available with or without pre-installed fittings.

Fitting of specialised hoses:
EV has substantial experience in fitting hoses to customer specifications. Hoses are also available in full rolls.

Our range of hoses, copper piping and nylon tubing has been specially selected to complement the various fittings we offer. Other types of piping and tubing are available on request.

OIL BOILER ACCESSORIES

Products:
- Tank entries
- Tank whistles
- Filling caps
- Venting caps
- Oil filters
- Thermal fuse valves
- Oil hoses
- Flow gauges

The accessories illustrated here are used for oil-fired boilers and above-ground oil tanks.

Oil boiler accessories

Thermal fuse valves:
Used to block the oil supply if temperature exceeds 70°C.

Standard oil hoses:
Length: 300 to 1000 mm
Thread: UNF, Gcyl, Rkon/Gcyl (C/N)

Tank whistles are used as mechanical level gauges, whistling to prevent overfilling.
EV POLICIES

- We think customer satisfaction in every situation.
- Ensure smooth and efficient processing of all customer inquiries.
- We have experience with the demands of international customers as their preferred supplier.
- Possibility of emergency supplies.
- Possibility of material- and pressure test certificates.
- Possibility of measuring reports.
- Products are available with traceability and CE marking.
- EV’s output control is often = our customers input control.
- To deliver unique products in accordance with our own requirements or customer specifications.
- The quality policy is established and continuously improved based on customer needs.
- Only carefully selected and qualified suppliers are used.

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