**Tender Text, AVK SUPA Maxi Step Coupling 632/00-001**

**1. Range**

DN 50-250 / 65-300 / PN 16

**2. Product description**

**General**

The coupling shall be a short piece of tubing with a socket joint in each end that joins two pipe ends by gripping and closing tight around their outer diameter. The one end - large size - shall be one or two DN-steps larger than the other - small size - end.

It shall be suited for use with water or other neutral liquids as medium.

A gripping mechanism shall be fitted with teeth to keep the pipes together if exposed to axial forces. It shall consist of two different gripping element designs: one optimized for gripping plastic tubes and one for gripping steel, iron or other hard materials.

**Coating**

Coating shall be 250 µm blue RAL 5017 epoxy applied acc. to GSK and ISO 30677.

**Sleeve**

The sleeve shall be made of ductile iron GJS-500-7 and following information shall be cast into the body: Manufacturer, pressure class, nominal inner pipe diameter, outer diameter span.

**Materials**

Rubber gaskets shall be drinking water approved EPDM.

Fasteners shall be A2 bolts/A4 nuts, anti-friction coated.

The elements in the gripping mechanism shall be alternating gunmetal (RG5) for plastic- and stainless steel for iron pipes. Plastic backup is not allowed.

**Installation/operation**

Pipes can be cast iron, carbon steel, stainless steel, asbestos cement, GRP or PE/PVC.

The bolts fastening the clamps around the pipes shall be arranged with the boltheads facing inwards and the nuts facing outwards.

Maximum angular deflection shall be 4° to each side. Temperature range -20°C to 70°C.

The allowed pipe diameter variations shall be within below values:

DN Min. Ø Max. Ø

50 48 71

65 69 91

80 82 106

100 104 133

125 132 161

150 159 188

200 193 227

225 224 257

250 266 301

300 314 356

Plastic end covers shall protect the interior of the coupling during transportation.

**Quality**

The manufacturer shall have an ISO 9000 certified quality system and be audited by an independent third party.

Each finished product shall be inspected and tested for compliance with the product standards and local market specification.

**3. Standards and Approvals**

Design and testing shall be in accordance with following:

 - EN 14525 (joints)

Materials shall be according to following:

 - EN 1563 (cast iron)

 - EN 10088 (stainless steel)

 - EN 1982 (bronze)

 - EN 681-1 (rubber)

The complete product shall be approved for drinking water by ÖVGW, SVGW and KIWA.