**Tender Text, AVK 879/101X99-001**

**1. Range**

DN 50-600, PN10/16

**2. Product Description**

**General**

The product shall be a flanged, diaphragm operated control valve with full bore and a parabolic plug.

The fluid medium shall be water or other neutral liquids.

**Body and coating**

The body shall be made of ductile cast iron grade GJS-500-7 internally and externally corrosion protected with 300 µm blue RAL 5017 epoxy to GSK.

Face to face shall be according to EN558 table 1 and flange drilling shall be according to EN1092.

Following information shall be cast into the body:

- Manufacturer's brand

- Size

- Pressure class

- Cast material

Following information shall be shown on the label:

- Bar code

- Product number

**Trim Materials**

Pilot and main valve parts like seat, plug, etc., shall be made of stainless steel AISI 304.

Fittings, pipes, unions, etc. constituting the connection between main valve and control module block shall be made of Ni-plated brass

Diaphragm support and adjoining spacer shall be ductile iron.

Sealing parts shall be drinking water approved rubber EPDM/WRAS.

**Control mode**

The control mode shall be pressure sustaining / relief, upstream.

**Operation**

The valve trim shall be able to regulate without cavitation damaging the plug and seat.

Maximum operating temperature shall be at least 70°C.

**Additional features**

Visual position indicator with acrylic glass protection as option

**Quality**

The manufacturer shall be ISO 9000 certified and audited by independent third party. Each produced item 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 1074-5 (water supply, control valves)

- EN1092 (flange dimensions)

- EN 12266 (test pressure)

-EN 558 (face-to-face)

Materials shall be according to:

- EN 10088 (stainless steel)

- EN 10213 (cast stainless steel)

- EN 1563 (cast iron)

- GSK (coating)  
 - DIN 3476 (coating)

All composite materials in contact with the water shall be approved for drinking water.