AVK Waterworks Valves — Resilient-Seat Gate Valves, Service Valves and Repair Couplings

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The AVK range read for specification: resilient-seated gate valves and what the rubber-encapsulated wedge changed, service-line valves by thread, stainless repair couplings chosen by pipe outside diameter, and the installation details (spindle extensions, open direction, burial depth) that municipal and plant buyers specify up front.

Why resilient-seat took over the water main

The classic metal-seated gate valve seals metal on metal in a machined groove — a groove that collects deposits until the valve no longer drips-tight. The resilient-seated design that Danish maker AVK built its name on encapsulates the cast wedge fully in rubber and seals against a smooth, epoxy-coated body with no seat pocket at all: debris has nowhere to lodge, and drop-tight closure survives decades of rare operation. That is the valve a distribution network buries — like the stocked DN200 gate valve with spindle transition, ready for an extension spindle up to a surface box.

The range beyond the gate valve

Item | Selection logic | Stocked example |

Service-line valves | By thread pair (external/internal) at the tapping — house connections and meters | 2 3 service valve, ext/int thread |

Repair couplings | By the damaged pipe's outside diameter window and sleeve length — the stocked AISI316L sleeves state their grip range in the name | 47–53 mm × 200 mm, 95–102 mm × 200 mm, 120–131 mm × 200 mm |

Fittings/crosses | Network nodes by DN | DN150 combination cross |

Repair couplings deserve the emphasis on OD: a "DN100" main can be cast iron, PVC or PE with three different outside diameters — the coupling grips the actual pipe surface, so measure the OD, pick the window that brackets it, and length by how ragged the damage is.

Specification notes that prevent site surprises

Open direction: European waterworks practice is typically counter-clockwise-to-open, parts of North America the reverse — mixed networks mark the handwheels, and the order should state it.

Flange drilling: EN 1092-1 PN10/PN16 in EN territory; North American tenders drill ANSI Class 125/150 — dimension tables for both sit in the flange finder. AVK builds to both markets (AWWA-pattern valves exist as their own series); quote the standard with the DN.

Spindle accessories: transition caps, extension spindles and surface boxes are ordered with the valve against burial depth — retrofitting them costs an excavation.

Coating: fusion-bonded epoxy inside and out is the drinking-water norm; note potable-water approvals required by the jurisdiction (differs between EU member states and NA utilities).

Around 150 AVK line items are stocked under the brand page — gate valves, service valves, couplings and network fittings — quoted within 24 hours against DN, PN, standard and accessories; project-quantity enquiries with a 45-day horizon are the normal case here, dispatched from European supplier stock to site, North America included.

Frequently asked questions
What is the advantage of a resilient-seated gate valve?No seat pocket: the rubber-encapsulated wedge seals on a smooth epoxy bore, so sediment cannot collect under the gate — drop-tight closure after years unoperated, which metal seats in a groove cannot promise.How do I size a repair coupling?By the pipe's measured outside diameter, not its DN label: pick the coupling whose grip window brackets the OD, and a sleeve length that spans the damage with margin — the stocked 316L sleeves name both figures.Do AVK valves fit North American flange patterns?The range is built for both worlds — EN 1092-1 drilling for EN markets and AWWA/ANSI-pattern series for North America. The purchase order must name the standard; the DN alone does not.Which way does a water main gate valve open?Convention varies: counter-clockwise-to-open dominates Europe, clockwise-to-open parts of North America. On networks with history, verify before standardising — and specify it on every new valve.Can a gate valve regulate flow?No — part-open gates vibrate and the rubber wedge erodes. Gate valves isolate; regulation belongs to globe or butterfly patterns, compared in the valve-type references.

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