



WATER AND WASTE WATER SOLUTIONS



Expect... **AVR**

AVK VALVES AND FITTINGS FOR WATER, WASTE WATER AND FIRE SUPPLY



AVK Syddal, Hyde, Cheshire



AVK UK National Distribution Centre, Corby, Northamptonshire



AVK Aqua-Gas Manufacturing, Corby, Northamptonshire

The AVK Group is one of the leading manufacturers of valves and fittings within the water, gas, waste water, industrial and fire protection industries worldwide and has 77 companies located in Europe, America, Asia, Australia and Africa.

Our UK based factories manufacture a large range of valves, hydrants, pipe fittings and accessories, each complying with the highest standards of safety and durability. Our UK manufactured valves and fittings are supplemented by an extensive range of products manufactured in other AVK companies located around the world as well as from a few key strategic supply partners. All products designed and manufactured by AVK UK exceed British Standard requirements.

While UK focus is on products designed and manufactured to British Standards, AVK UK and the AVK Group offers products in accordance with most national and international standards.

PRODUCT DEVELOPMENT AND INNOVATION

Market proximity is at the core of AVK's strategy and we value the importance of local customers being serviced by local sales organisations. Contact with and feed-back from the end-user enables close monitoring of the market to provide a pro-active continuous product development programme to meet requirements.

Ideas and suggestions from across the world are collated and controlled centrally in our advanced technology development centre in Denmark. Design, development and testing is carried out at our local manufacturing sites and, in co-operation with the end user, new products are field tested before the final market launch.

Not only do we achieve the best results in individual markets, each success is shared and applied throughout the group to give our customers the best market advantage.

In addition to our already extensive product offering, we now offer valves for all stages of **NON-CONVENTIONAL GAS** production. For a more extensive guide of our product offering please visit our website www.avkuk.co.uk





AVK UK have manufacturing sites in Corby, Chesterfield, and Hyde, Greater Manchester. These are supported by sales and marketing in Chesterfield, Northampton, Hyde, Maidstone, Prestwick and Bognor Regis with distribution centres in Chesterfield, Corby, Maidstone, Kilmarnock and Bognor Regis.

With local technical expertise and on-site service teams, AVK UK also offers its customers product identification, diagnostics, selection and application advice. We also hold product training courses and operating & maintenance guidance.

All AVK customer facing staff hold the relevant Site Safety Passport and where necessary confined space and other relevant certification.

24/7 EMERGENCY REPAIR CLAMP SERVICE

AVK in the UK has a 24/7 emergency same day leak repair clamp service for gas and water mains.

From our facility at Hyde we offer either a same day, next day, 2 to 3 day service or a delivery to suit your requirement, via our dedicated hot line:

24 HOUR EMERGENCY LINE 0800 202 8228

SITE SOLUTIONS

AVK, through Invicta Valves now offer full Site Solutions to support our unrivalled water and waste water product range.

We provide all customer's needs ranging from inspection, site surveys, design, supply, installation, commissioning and maintenance. We even provide supplementary electrical and small civil engineering installation services when required. This service is supplied from 3 locations across the UK, for more information see page 44 in this brochure or contact us on:

T: +44 (0) 1622 754613

E: sitesolutions@invictavalves.co.uk

This brochure gives a general overview of our extensive water and waste water product range, however if you cannot see the product, size or standard that you require or would like information on training and site services please contact us on:

Water sales office

+44 (0) 1604 601188

or visit our website

www.avkuk.co.uk

THE WEDGE IS THE HEART OF A GATE VALVE



AVK fixed, integral wedge nut sealed with EPDM rubber prevents corrosion.

Unique features and benefits of the AVK wedge

- Fixed, integral wedge nut sealed with rubber prevents corrosion (1).
- Double bonding vulcanization process ensures maximum adhesion of the rubber.
- Guide rails with integrated wedge shoes ensure low friction and smooth operation (2).
- Rubber vulcanized to the core with min. 1.5mm on all pressure bearing surfaces and 4mm on all sealing surfaces gives optimum corrosion protection.
- Large rubber volume in the sealing area provides optimum sealing (3).
- Large plain and conical stem hole (4) prevents stagnant water and accumulation of impurities.
- AVK's rubber compound features an outstanding compression set value, resistance to water treatment chemicals and ensures minimised biofilm formation.

Fixed integral wedge nut prevents corrosion

AVK's wedge nut design is superior to the traditional loose wedge nut design as it prevents vibration, corrosion, malfunction and water hammer. The wedge nut is made of dezincification resistant brass with lubricating abilities.

Integrated wedge shoes for smooth operation

The fixed wedge nut, combined with the guide rails with integrated wedge shoes, secures a smooth operation of the valve and low operating torques. The wedge shoes protect the rubber against wear which otherwise would arise caused by the friction during operation.

Efficient bonding is the key to durability

The wedge core is immersed in two different baths providing:

- A primer to prevent corrosion
- Bonding between rubber and ductile iron core

We offer the best rubber adhesion and corrosion protection on the market.



DN450-600: External wedge shoes on reversed guide rails.



DN40-400: Integrated wedge shoes in internal guide rails.



A thin layer of rubber must remain after the peeling test.



The double bonding process prevents creeping corrosion.

STATE-OF-THE-ART RUBBER TECHNOLOGY



AVK Gummi develops and manufactures the rubber compound for wedges and gaskets using highly advanced technology.

Unlike most manufacturers of resilient seat gate valves, AVK has its own in-house manufacturer of rubber components, AVK GUMMI A/S. AVK Gummi develops and manufactures the rubber compound for wedges and gaskets using highly advanced technology. Data is collected throughout the entire manufacturing process which provides traceability of every individual ingredient, each compound and the finalised components. AVK GUMMI carries out a number of tests to ensure that the compression set values, the adhesion and the tensile strength meet the predefined requirements.

Excellent ability to regain original shape

AVK GUMMI A/S has an extensive knowledge of a rubber's compression set (its ability to regain its original shape). Even after many years of service where the wedge rubber has been compressed numerous times, the rubber will regain its original shape and ensure a tight sealing.

Impurities in the medium being carried will not affect the rubber surface or the tightness of the valve as they will be absorbed in the rubber when the valve is in the closed position. When the valve is reopened the impurities will be flushed away and the rubber will regain its shape.

No contamination of drinking water

The EPDM rubber composition is designed to minimise the formation of biofilm. The rubber will therefore not provide a breeding ground for bacteria.

High resistance

The drinking water approved EPDM compounds are resistant to ozone and water treatment chemicals such as sodium hypochlorite solutions and are taste, smell and colour neutral. The NBR rubber is resistant to oil and gas and holds an approval according to EN 682.

THE COST OF GETTING IT WRONG...

Competitor wedges - totally destroyed due to lack of bonding and incorrect vulcanisation.

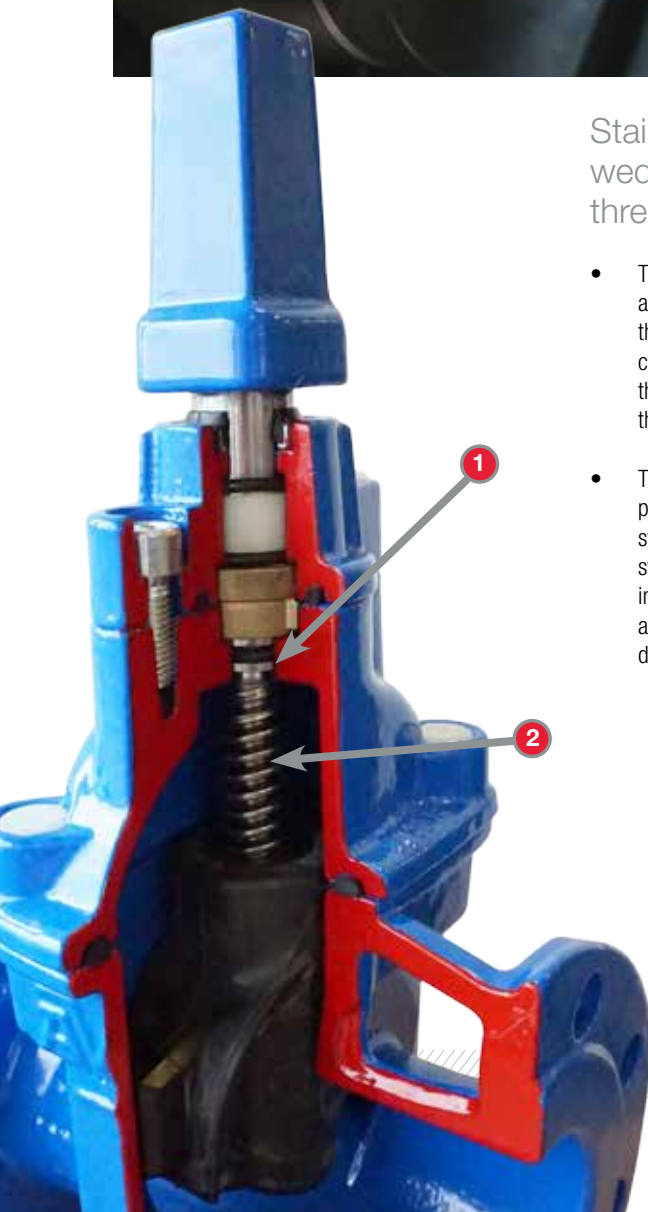


HIGH STRENGTH AND LOW OPERATING TORQUES



Stainless steel stems with wedge stop and rolled threads.

- The wedge stop **(1)** provides a firm stop against the wedge nut when opening the valve. This prevents the wedge from compressing the stem seals and damaging the coating inside the bonnet prolonging the durability of the valve.
- The stem threads **(2)** are rolled in a cold pressing process which maintains the steel structure and therefore increases the strength of the stem. This method results in smooth thread surfaces and brings about low operating torques and prolonged durability.



THE COST OF GETTING IT WRONG...

Competitor's spindles and wedge nut damaged due to low quality materials and processes.



Broken wedge nut



Damaged spindle thread and O-ring

NO COMPROMISE ON LEAKAGE OR CORROSION

Triple safety stem sealing system

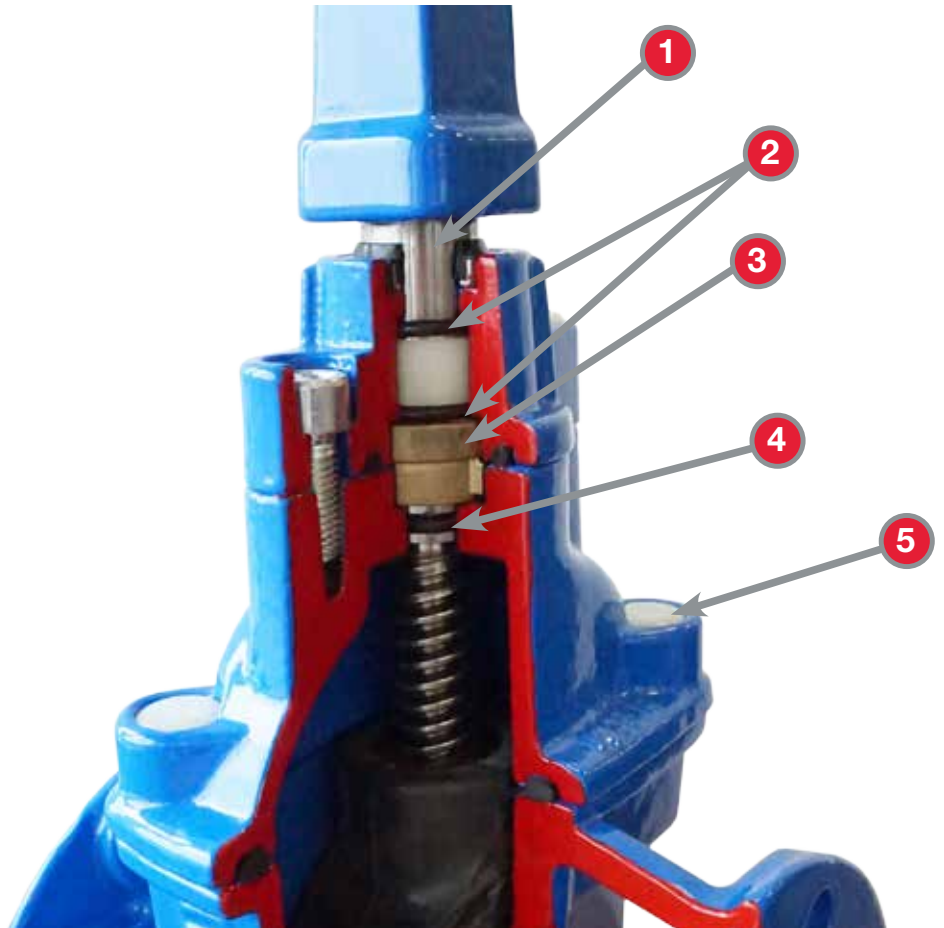
1. An NBR wiper ring protects against impurities from the outside.
2. Two EPDM O-rings in a polyamide bearing provide tightness around the stem.
3. The full circle thrust collar of dezincification resistant brass provides a low free running torque.
4. An O-ring is the main seal to the flow.
5. Hot melt seal.

Secure assembly of valve body and bonnet

A bonnet gasket fits into a recess between the valve body and the bonnet, which prevents it from being blown out in the event of a pressure surge. The bonnet bolts are encircled by the bonnet gasket, countersunk in the bonnet and finally sealed with hot melt to prevent corrosion.

100% pressure test

Every single valve is pressure tested according to BS EN 1074-1 & 2 and EN 12266 before leaving the factory.



The epoxy layer thickness must be min. 250µ on all surfaces



The impact resistance is tested with a steel cylinder



Each valve is 100% holiday tested



AVK gate valves have as standard internal and external epoxy coating in line with WIS 4-52-01. The epoxy powder coating can be applied either manually or robotically using the latest, process efficient, state-of-the-art equipment.

Thorough control of the coating

We control each batch of epoxy coated components to ensure a minimum thickness of 250µ. The impact resistance of the coating is tested by dropping a steel cylinder on the coating surface through a one meter long tube. The curing of the epoxy coating is checked in an adhesive disbondment (v cut) test. The coating of all internal surfaces are 100% holiday free tested to ensure that there are no pin hole cavities exposing raw material.



GATE VALVES

SERIES TYPE

DESCRIPTION

APPLICATION

MAIN FEATURES

MAIN OPTIONS

SIZE

MAX WORKING PRESSURE

TEMPERATURE RANGE

BODY MATERIAL

APPLICABLE STANDARDS

SERIES 01/79



AVK RESILIENT SEAT GATE VALVE WITH SUPAPLUS™ SOCKET CONNECTIONS PN10/16

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- SUPAPLUS™ system including stainless steel bolts as standard.
- Angular deflection $\pm 3.5^\circ$ per socket.

- Handwheel.
- Clockwise to open / close.
- Series 05 Stainless Steel liners, see page 42.
- SDR 11, 17, 21, 23

DN80-400

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-2
EN 12842
WIS 04-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 36/89



AVK RESILIENT SEAT GATE VALVE WITH PE TAILS PN16

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- Complete with PE tailed ends
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- PE100 SDR11 16 bar PE pipe.

OD90-315

16 Bar.

-10°C to +40°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-2
WIS 04-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 32/49



AVK RESILIENT SEAT GATE VALVE WITH LONG SPIGOT ENDS PN16

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- Complete with double spigot ends.
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- Coupling
- SupaMaxi couplings

DN80-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-2
WIS 04-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Gate Valves page 47**

SERIES 21/35



AVK SCALLOPED FLANGE RESILIENT SEAT GATE VALVE PN10/16

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- Lifting bars.
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- Alternate flange drillings.
- ISO gland flanged version for gearbox and actuator mounting (21/78).
- Version for salt laden environments (21/58).
- Full range of flange adaptors.

DN80, 100, 150 and 200

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 21/50



AVK RESILIENT SEAT GATE VALVE PN10/16

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- Lifting bars.
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- Alternate flange drillings.
- ISO gland flanged version for gearbox and actuator mounting (21/78).
- Version for salt laden environments (21/58).
- Full range of flange adaptors.

DN50, 250, 300, 350 and 400

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 21/58



AVK RESILIENT SEAT GATE VALVE FOR SALT LADEN ENVIRONMENTS PN10/16

For use with water and waste water.

- Cap-top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet and gland bolts sealed with hot-melt.
- Lifting bars.
- Full clear bore.
- Stainless steel A4 bolts.

- Handwheel.
- Clockwise to open / close.
- Alternative flange drilling.
- ISO gland flanged version for gearbox and actuator mounting (21/78).
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
WIS 4-52-01 Class A 300mpa
Reg 31 compliant
WIMES 8.09 compliant

SERIES 21/60



AVK RESILIENT SEAT GATE VALVE PN25

For use with water and waste water.

- Cap top as standard.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet bolts sealed with hot melt.
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- Alternate flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.
- ISO gland flanged version for gearbox and actuator mounting (21/61).

DN50-400

25 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant



GATE VALVES

SERIES TYPE

SERIES 21/61 & 62



SERIES 21/78



SERIES 37/50



DESCRIPTION

AVK RESILIENT SEAT GATE VALVE WITH ISO MOUNTING FLANGE PN25

AVK RESILIENT SEAT GATE VALVE WITH ISO MOUNTING FLANGE PN10/16

AVK METAL SEAT GATE VALVE PN10/16

APPLICATION

For use with water and waste water.

For use with water and waste water.

For use with water and waste water.

MAIN FEATURES

- ISO F10 mounting gland flange up to DN150, F14 on DN200-300 for actuation.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Body / bonnet bolts sealed with hot melt.
- Lifting bars.
- Full clear bore.

- ISO F10 mounting gland flange up to DN300, F14 on DN400 for actuation.
- Ductile Iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- No accessible moving parts.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.
- Body / bonnet bolts sealed with hot melt.
- Lifting bars.
- Full clear bore.

- Cap top as standard.
- Ductile Iron wedge with gunmetal seat rings.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved
- Fully corrosion resistant construction.
- Body / bonnet bolts sealed with hot melt.
- Lifting bars.
- Full clear bore.

MAIN OPTIONS

- Electric actuation.
- Clockwise to open / close.
- Bevel or spur gearboxes.
- Alternate flange drillings.
- Full range of flange adaptors.

- Electric actuation.
- Clockwise to open / close.
- Bevel or spur gearboxes.
- Alternate flange drillings.
- Full range of flange adaptors.

- Handwheel.
- Alternative flange drillings.
- Clockwise to open / close.
- Full range of flange adaptors.
- ISO gland flanged version for gearbox and actuator mounting (37/51).

SIZE

DN50-300

DN50-400

DN50-300

MAX WORKING PRESSURE

25 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Ductile Iron
BS EN 1563, EN-GJS-500-7

Ductile Iron
BS EN 1563, EN-GJS-500-7

Ductile Iron
BS EN 1563, EN-GJS-500-7

APPLICABLE STANDARDS

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-1&2
BS EN 1092 (ISO 7005-2)
BS 5163-1
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-1&2
BS 5163-1&2
BS EN 1092 (ISO 7005-2)
DIN 30677-2
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Gate Valves page 47, Actuators page 50**

LARGE DIAMETER GATE VALVES

SERIES 37/51



AVK METAL SEAT GATE VALVE WITH ISO MOUNTING FLANGE PN16

For use with water and waste water.

- ISO F10 up to ISO F10/14 on DN200-300 for actuation.
- Ductile Iron wedge with gunmetal seat rings.
- O-ring stem seals replaceable under pressure.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved
- Fully corrosion resistant construction.
- Body / bonnet bolts sealed with hot melt.
- Lifting bars.
- Full clear bore.

- Electric actuation.
- Bevel or spur gearboxes.
- Guide channels wedge shoes.
- Clockwise to open / close.
- Alternative flange drillings
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1074-1&2
BS EN 1092 (ISO 7005-2)
BS 5163-1
DIN 30677-2
Reg 31 compliant
WIMES 8.09 compliant

SERIES 29/93



AVK RESILIENT SEAT ISOLATING CLEAR BORE GATE VALVE PN16

For use with water and waste water.

- Full, through bore, dimension 80mm.
- Fully maintainable.
- Universal drilled inlet flange DN80 BS EN 1092:1997, 3" BS 10 Table D/E.
- WRAS approved for cold water use.
- Wedge - EPDM coated ductile iron.
- Input drive stem cap, in accordance with BS 750 / BS 5163-2
- Fusion bonded epoxy coating internally and externally in accordance to WIS 04-52-01 Class B.
- Outlet flange to BS EN 1092-2 PN16.

- Handwheel
- Mounting kit for limit switch.
- Limit switch.
- Combi-flange.
- Clockwise to open / close.
- Alternative flange drillings
- Full range of flange adaptors.

DN80

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 14339
BS 5163-2
BS EN 1092-2 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant

SERIES 06/30



AVK RESILIENT SEAT FLANGED GATE VALVE WITH BARE SHAFT PN10/16

For use with water and waste water.

- Bare shaft as standard
- Ductile iron fully vulcanized wedge with guide rails, integrated wedge shoes and a large conical stem hole with EPDM rubber.
- Full circle thrust collar provides low free running torques.
- Triple safety stem sealing.
- Fusion bonded epoxy coating in accordance to DIN 30677-2.
- Fully corrosion resistant construction.
- Low operating torque.
- Full clear bore.

- Handwheel
- Mounting kit for limit switch.
- Limit switch.
- Combi-flange.
- Clockwise to open / close.
- Alternative flange drillings
- Full range of flange adaptors.

DN80-400

16 Bar.

-10°C to +70°C.

Ductile Iron
EN-GJS-500-7

BS EN 1092 (ISO 7005-2)
DIN F4
DIN 30677-2
Reg 31 compliant
WIMES 8.09 compliant

SERIES 54



AVK METAL FACED LARGE DIAMETER GATE VALVE PN16

For use with water and waste water.

- Standard ISO mounting gland flange.
- Ductile Iron wedge with Aluminium Bronze seat rings.
- O-ring stem seals.
- Fusion bonded epoxy coated internally and externally in accordance to DIN 30677-2 and GSK approved.
- Fully corrosion resistant construction.
- Integral by-pass bosses enable retrofit of by-pass.
- Lifting points.
- Full clear bore.

- Handwheel.
- Clockwise to open / close.
- Electric act / Bevel or spur gearboxes.
- Alternative flange drillings.
- By-pass.
- Pinned and screwed seat rings.
- ISO flange sizes.
- Guide channels and wedge shoes.
- PN25.
- Full range of flange adaptors.
- Version for salt laden environments.

DN350-600

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS 5163-1&2
BS EN 1074-1&2
BS EN 1092-2 (ISO 7005-2)
DIN 30677-2
Reg 31 compliant
WIMES 8.09 compliant




Product Specification Checklists for **Gate Valves page 47** and **Actuators page 50**

24/7 SAME DAY EMERGENCY REPAIR CLAMP SERVICE 0800 202 8228

WATER & WASTE WATER TREATMENT | 11



LARGE DIAMETER GATE VALVES

SERIES TYPE	SERIES 54	SERIES 55/30	SERIES 55/48
			
	AVK METAL FACED LARGE DIAMETER GATE VALVE PN10/16	AVK RESILIENT SEAT LARGE DIAMETER GATE VALVE PN10/16	AVK RESILIENT SEAT LARGE DIAMETER GATE VALVE, F14 ISO FLANGE
	For use with water and waste water.	For use with water and waste water.	For use with water and waste water.
	<ul style="list-style-type: none">• Standard ISO mounting gland flange.• Ductile Iron wedge with Aluminium Bronze seat rings.• Fusion bonded epoxy coated internally and externally in accordance to DIN 30677-2.• Fully corrosion resistant construction.• Integral by-pass bosses enable retrofit of by-pass.• Inspection / cleaning hatch.• Lifting points.• Full clear bore.	<ul style="list-style-type: none">• Standard ISO top flange for actuator and gearbox mounting.• Ductile iron wedge, fully vulcanised with EPDM rubber with polyacetal wedge shoes for horizontal / vertical installation.• Full clear bore.• Flanged bosses for by-passing or sampling.• Corrosion resistant.• Independently tested to 2500 cycles.• Lifting eye-bolts.	<ul style="list-style-type: none">• F14 ISO top gland flange.• Reduced face to face.• Fixed, integral wedge nut.• Polyamide wedge shoes protect the wedge rubber, provide low operating torques.• A large conical stem hole in the wedge prevents stagnant water.• Four independent stem sealings.• Two roller bearings.• Full bore.• Integrated lifting eyes for easy handling.• Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.• Very low torques.
MAIN FEATURES			
MAIN OPTIONS	<ul style="list-style-type: none">• Clockwise to open / close.• Electric act / Bevel or spur gearboxes.• Alternative flange drillings.• By-pass.• Pinned and screwed seat rings.• ISO flange sizes.• Jacking screws.• Guide channels and wedge shoes.• PN25 upto DN1000..• Full range of flange adaptors.• Version for salt laden environments.	<ul style="list-style-type: none">• Handwheel• Clockwise to open / close.• Electric actuation / Bevel or spur gearboxes.• Retrofit by-pass kit with DN80 gate valve.• Alternative flange drillings.• Full range of flange adaptors.	<ul style="list-style-type: none">• Handwheel• Clockwise to open / close.• Electric actuation / Bevel or spur gearboxes.• Retrofit by-pass kit.• Alternative flange drillings.• Full range of flange adaptors.• Version for salt laden environments.
SIZE	DN700-2500	DN450-800	DN450-600
MAX WORKING PRESSURE	16 Bar.	16 Bar.	16 Bar.
TEMPERATURE RANGE	-10°C to +70°C.	-10°C to +70°C.	-10°C to +70°C.
BODY MATERIAL	Ductile Iron BS EN 1563, EN-GJS-500-7	Ductile Iron GGG-50, BS EN 1563, EN-GJS-500-7	Ductile Iron BS EN 1563, EN-GJS-500-7
APPLICABLE STANDARDS	BS 5163-1 BS EN 1092-2 (ISO7005-2) Reg 31 compliant WIMES 8.09 compliant	BS 5163-1 BS EN 1074-1&2 BS EN 1092-2 (ISO 7005-2) WIS 4-52-01 Class B Reg 31 compliant WIMES 8.09 compliant	BS EN 1092-2 (ISO 7005-2) BS 5163-1 BS EN 1074 1&2 WIS 4-52-01 Class B Reg 31 compliant WIMES 8.09 compliant

Product Specification Checklists for **Large Diameter Gate Valves page 48** and **Actuators page 50**

PLUG VALVES

CHECK VALVES

SERIES 55/49



AVK RESILIENT SEAT LARGE DIAMETER GATE VALVE, F16 ISO FLANGE

For use with water and waste water.

- F16 ISO top gland flange.
- Reduced face to face.
- Fixed, integral wedge nut.
- Polyamide wedge shoes protect the wedge rubber, provide low operating torques.
- A large conical stem hole in the wedge prevents stagnant water.
- Four independent stem sealings.
- Two roller bearings.
- Full bore.
- Integrated lifting eyes for easy handling.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.
- Very low torques.

- Handwheel
- Clockwise to open / close.
- Electric actuation / Bevel or spur gearboxes.
- Retrofit by-pass kit.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

DN450-600

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1092-2 (ISO 7005-2)
BS 5163-1
BS EN 1074 1&2
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 18/80



AVK COMBI-CROSS 3 OUTLETS VALVE PN10/16

For use with water and waste water.

- Ductile iron wedge, fully vulcanised with EPDM rubber.
- O-ring stem seals replaceable under pressure. Standard ISO mounting gland flange.
- Corrosion resistant.
- Fusion bonded epoxy coated.
- Body / bonnet bolts sealed with hot melt.
- The centre outlet allows easy insertion of a cleaning pig.

- Flanged DN100 centre outlet.
- Extension spindle.
- The valves are prepared for / delivered with ball valves making it possible to take out water samples or to supply auxiliary water.
- Full range of flange adaptors.

DN100-300

16 Bar.

-10°C to +70°C.

Ductile Iron
EN-GJS-500-7

Reg 31 compliant

SERIES 764/01



AVK ECCENTRIC PLUG VALVE, EPDM RUBBER PN16

For use with water and waste water.

- 95% pure nickel seal welded on for low torque and corrosion protection.
- A round rubber bonnet gasket fits into a recess in the valve bonnet preventing a blow out by pressure surges.
- Fusion bonded epoxy coated in accordance to GSK approval.
- Standard ISO mounting flange on all sizes.
- Rectangular port opening with full bore.
- Plugs with integrated stems.

- Electric actuation.
- Bevel or spur gearboxes.
- Lever (DN80).
- Bolts: A4 and 8.8 zinc plated.
- Alternative flange drillings
- Full range of flange adaptors.
- NBR rubber.

DN80-300

16 Bar.

-10°C to Max 70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS EN 1092-2 (ISO 7005-2)
EN 558 SERIES 3
AWWA CS17
Reg 31 compliant
WIMES 8.09 compliant

SERIES 41/20



AVK RESILIENT SEAT SWING CHECK VALVE PN16

For use with water and waste water.

- Resilient seated disc.
- Lightweight design.
- Pre-fitted extended spindle.
- Highly adaptable lever and weight system.
- 5 by-pass bosses.
- Cross sectional flow area greater than 90%.
- Easily maintained.
- Corrosion resistant.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.

- Lever and weight.
- Lever and weight guard.
- Limit / proximity switch actuation kit.
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

EN 558 Series 48
BS EN 1074-3
BS EN 1092-2 (ISO 7005-2)
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Large Diameter Gate Valves page 48, Actuators page 50, Plug Valves page 57** and **Check Valves page 51**

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WATER & WASTE WATER TREATMENT | 13



CHECK VALVES

SERIES TYPE

SERIES 41/36



SERIES 41/39



SERIES 53/30



DESCRIPTION

AVK SWING CHECK VALVE WITH LEVER AND WEIGHT PN16

AVK METAL SEAT SWING CHECK VALVE PN16

AVK THREADED BALL CHECK VALVE PN10

APPLICATION

For use with water and waste water.

For use with water and waste water.

For use with waste water..

MAIN FEATURES

- Aluminium bronze body seat and gunmetal faced disc.
- Lightweight design.
- Pre-fitted extended spindle.
- Highly adaptable lever and weight system.
- 5 by-pass bosses.
- Cross sectional flow area greater than 90%.
- Easy maintained.
- Fully corrosion resistant.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved.

- Gunmetal body seat and gunmetal faced disc (50-300), Aluminium bronze body seat (350-600).
- Lightweight design.
- Pre-fitted extended spindle.
- Highly adaptable lever and weight system.
- 5 by-pass bosses.
- Cross sectional flow area greater than 90%.
- Easy maintained.
- Fully corrosion resistant.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved.

- Ball of aluminium vulcanized with NBR rubber hardness is optimised to prevent the ball from getting stuck in the seat.
- Ductile Iron body with stainless steel nuts and bolts.
- Full bore ensures low pressure loss and minimum back pressure
- Smooth bore eliminates the risk of deposits at the bottom
- Compact design and low weight
- Epoxy coating internally and externally
- Self-cleaning construction
- BSP threaded connection.

MAIN OPTIONS

- Lever and weight right hand side as standard, in direction of flow, left hand side on request.
- Lever, weight and guard.
- Limit/proximity switch actuation kit.
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

- Lever and weight right hand side as standard, in direction of flow, left hand side on request.
- Lever and weight guard.
- Limit / proximity switch actuation kit.
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

- The ball is available in polyurethane suitable for abrasive media and if different ball weights are necessary to prevent vibration and water hammer.
- Version for salt laden environments.

SIZE

DN350-600

DN50-600

DN32-50

MAX WORKING PRESSURE

16 Bar.

16 Bar.

10 Bar

TEMPERATURE RANGE

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Ductile Iron
BS EN 1563, EN-GJS-500-7

Ductile Iron
BS EN 1563, EN-GJS-500-7

Ductile Iron
GJS-400-15 (GGG-40)

APPLICABLE STANDARDS

EN 558 Series 48
BS EN 1074-3
BS EN 1092-2 (ISO 7005-2)
DIN 30677-2
Reg 31 compliant
WIMES 8.09 compliant

EN 558 Series 48
BS EN 1074-3
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

EN 12050-4
DIN 3202-F6
WIMES 8.09 compliant
Reg 31 compliant

SERIES 53/35

SERIES 641/01

SERIES 641/11

SERIES 641/21



AVK FLANGED BALL CHECK VALVE PN10/16

AVK METAL SEAT SWING CHECK VALVE PN16

AVK RECOIL NON SLAM CHECK VALVE PN16

AVK RECOIL CHECK VALVE PN16

For use with waste water.

For use with water and waste water.

For use with water and waste water.

For use with water and waste water.

- NBR lined ball of aluminium in DN50-100 and 500 and of cast iron in DN125-400. The rubber hardness is optimised to prevent the ball from getting stuck in the seat. In DN600 the ball is of aluminium with PUR liner.
- Ductile Iron body with stainless steel nuts and bolts.
- Full bore ensures low pressure loss and minimum back pressure
- Smooth bore eliminates the risk of deposits at the bottom
- Compact design and low weight.
- Epoxy coating internally and externally
- Self-cleaning construction

- Proven design.
- Corrosion resistant construction.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved.
- 10 bosses as standard.
- Maintenance free for standard applications.

- Single door design.
- Metal seated valve with gunmetal body seats and gunmetal faced doors.
- Fusion bonded epoxy coating in accordance to DIN 30677-2 and GSK approved.
- Non slam operation.
- No additional damping required.
- By-pass bosses.
- Minimum head loss.
- Horizontal application only.
- Maintenance free for standard applications.

- Multi-door design.
- Metal seated valve with gunmetal body seats and gunmetal faced doors.
- Non slam operation.
- No additional damping required.
- By-pass bosses.
- Fusion bonded epoxy coating in accordance to DIN 30677-2.
- Horizontal application only.
- Maintenance free for standard applications.

- The ball is available in polyurethane suitable for abrasive media and if different ball weights are necessary to prevent vibration and water hammer.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

- Lever and weight left hand side as standard, in direction of flow, right hand side on request.
- Guard.
- Limit/proximity switch.
- Pressure test or air relief boss.
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

- Drain plug.
- Limit / proximity sensors.
- Alternative trims.
- PN25 version (641/15).
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

- Limit / proximity sensors.
- Alternative trims.
- PN25 version (641/23).
- Priming by-pass bosses.
- Alternative flange drillings.
- Full range of flange adaptors.
- Version for salt laden environments.

DN50-600

DN700-1000

DN100-500

DN600-1400

10 Bar.

16 Bar.

16 Bar.

16 Bar.

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

Ductile Iron GGG-50,
BS EN 1563, EN-GJS-500-7

Ductile Iron
BS EN 12234

Ductile Iron
BS EN 1563, EN-GJS-500-7

Ductile Iron
BS EN 1563, EN-GJS-500-7

EN 558 Series 48
EN 12050-4
BS EN 1092 (ISO 7005-2)
DIN 3202-F6
WIMES 8.09 compliant
Reg 31 compliant

BS EN 12234
BS EN 1074-3
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1092 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Check Valves** page 51

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WATER & WASTE WATER TREATMENT | 15



SERIES TYPE

SERIES 642



SERIES 29/388



SERIES 29/91



DESCRIPTION

DOUBLE DISC ECV
"EUROCHECK" CHECK
VALVES PN6/10/16AVK SQUAT
UNDERGROUND FIRE
HYDRANT PN10/16AVK CLEARWAY
UNDERGROUND FIRE
HYDRANT PN10/16

APPLICATION

For use with water and waste water.

For use with water.

For use with water.

MAIN FEATURES

- Flangeless wafer type
- Ductile iron body and Aluminium bronze disc.
- Lightweight design.
- Easy maintained.
- Corrosion resistant.
- Polyurethane or Epoxy coated

- 2 1/2" London round thread outlet to BS 750.
- Fully maintainable.
- Exceeds flow requirements 2000 litres per minute at 1.7 bar.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Corrosion resistant, compliant with BS EN 1074-6 for disinfection products.
- Universal drilled inlet flange BS EN 1092:1997, BS 10 Table D/E.
- Auto-frost drain valve as standard.
- Fixed, draining stopper.
- Low weight design.

- 2 1/2" London round thread outlet to BS 750:2012. Full, through bore DN80.
- Fully maintainable in situ.
- Exceeds flow requirements 4000 litres per minute at 1.7 bar.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B
- Fully corrosion resistant construction.
- Ductile Iron construction
- Universal drilled inlet flange BS EN 1092:1997, BS 10 Table D/E.
- Auto-frost drain valve as standard.
- Full clear bore.

MAIN OPTIONS

- EPDM / NBR / FPM / Viton liner
- Ductile iron / Aluminium bronze / Austenitic stainless steel body
- Aluminium bronze / Austenitic stainless steel disc.
- Coating and thickness options.
- Full range of flange adaptors and dismantling joints.

- Stainless steel or gunmetal to BS750 round thread outlet.
- Instantaneous (Morris) outlet.
- Belfast outlet.
- London 'V' thread outlet.
- Internal screwed outlet.
- Norwegian outlet.
- Bayonet (Dublin) outlet.
- 25 Bar Version.
- Loose stopper.
- Version for salt laden environments

- Stainless steel or gunmetal to BS750 round thread outlet.
- Instantaneous (Morris) outlet.
- Belfast outlet.
- London 'V' thread outlet.
- Internal screwed outlet.
- Norwegian outlet.
- Bayonet (Dublin) outlet.
- 25 Bar Version.
- Security lock.
- Data logger.
- Hydrant outlet cover options.

SIZE

DN32-600

DN80

DN80

MAX WORKING PRESSURE

16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-40°C to +200°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Ductile Iron

Ductile Iron
BS EN 1563, EN-GJS-500-7Ductile Iron
BS EN 1563, EN-GJS-500-7

APPLICABLE STANDARDS

EN 558 -1/2 Series 16
Reg 31 compliant
WIMES 8.09 compliantBS 750:2012
BS EN 1074-6
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliantBS 750:2012 Type 2
BS EN 1074-6
WIS 4-52-01 Class B
Reg 31 compliant
WIMES 8.09 compliantProduct Specification Checklists for **Check Valves page 51** and **Hydrants page 49**

UNDERGROUND HYDRANTS

SERIES 29/61



AVK TYPE 1 UNDERGROUND FIRE HYDRANT PN10/16

For use with water.

- 2 1/2" London round thread outlet to BS 750.
- Fully maintainable.
- Exceeds flow requirements.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.
- Corrosion resistant, compliant with BS EN 1074-6 for disinfection products.
- Inlet flange drilled BS EN 1092:1997, PN10/16
- Draining stopper.
- Low weight design.

- Stainless steel or gunmetal to BS750 round thread outlet.
- Instantaneous (Morris) outlet.
- Belfast outlet.
- London 'V' thread outlet.
- Internal screwed outlet.
- Norwegian outlet.
- Bayonet (Dublin) outlet.

DN80

16 Bar.

-10°C to +70°C.

Ductile Iron,
BS EN 1563, EN-GJS-500-7

BS EN 1092-2 (ISO 7005-2)
BS 750:2012 Type 1
BS EN 1074-6&2
WIS 4-52-01 B
Reg 31 compliant
WIMES 8.09 compliant

SERIES 29/93



AVK CLEARWAY UNDERGROUND FIRE HYDRANT PN10/16

For use with water.

- 2 1/2" London round thread outlet to BS 750:2012.
- Full, through bore, dimension 80mm.
- Fully maintainable.
- Exceeds 2000 litres per minute at 1.7 bar.
- Corrosion resistant.
- Ductile Iron construction
- Universal drilled inlet flange BS EN 1092:1997, BS 10 Table D/E.

- Stainless steel or gunmetal to BS750 round thread outlet.
- Instantaneous (Morris) outlet.
- Belfast outlet.
- London 'V' thread outlet.
- Internal screwed outlet.
- Norwegian outlet.
- Bayonet (Dublin) outlet.
- Security lock.
- 25 Bar Version.

DN80

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563, EN-GJS-500-7

BS 750:2012
BS EN 1074-6
WIS 4-52-01 Class B,
Reg 31 compliant
WIMES 8.09 compliant

SERIES 29/10



AVK SECURITY DEVICE FOR UNDERGROUND HYDRANTS

To suit Type 2 and Clearway Hydrants

- Unique design of locking cap.
- Tamper proof.
- Offers protection to hydrant outlet and operating spindle.
- No special tooling for installation.
- Prevents un-authorised use of hydrant.
- Ease of fitting and removal.
- Maintenance free.
- Fully epoxy coated for corrosion resistance.
- Universal fitting.

- T-Key.

N/A

N/A

N/A

Ductile Iron
BS EN 1563

WIS 4-52-01 Class B
Reg 31 compliant

SERIES 75/10



AVK WAFER CONCENTRIC BUTTERFLY VALVE PN10/16

For use with water.

- Wafer pattern design.
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.
- For installation between flanges.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

DN40-1400

6 / 10 / 16 Bar.

-30°C to + 110°C

Ductile Iron / Cast Iron

EN 12266
BS EN 593
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Hydrants page 49**

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WATER & WASTE WATER TREATMENT | 17



BUTTERFLY VALVES

SERIES TYPE

SERIES 75/20



SERIES 75/21



SERIES 75/30



DESCRIPTION

**AVK SHORT DOUBLE
FLANGED CONCENTRIC
BUTTERFLY VALVE
PN10/16**

**AVK LONG DOUBLE
FLANGED CONCENTRIC
BUTTERFLY VALVE PN10/16**

**AVK SEMI LUGGED
WAFER BUTTERFLY VALVE
PN10/16**

APPLICATION

For use with water.

For use with water.

For use with water.

MAIN FEATURES

- Double flanged short.
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

- Semi lugged pattern design.
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

- Semi lugged wafer design.
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

MAIN OPTIONS

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Optional flange connections.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

SIZE

DN40-2000

DN50-2000

DN50-300

MAX WORKING PRESSURE

16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-30°C to + 110°C

-30°C to + 110°C

-30°C to + 110°C

BODY MATERIAL

Ductile Iron / Cast Iron

Ductile Iron / Cast Iron

Ductile Iron
GJS-450-15 (GGG-40)

APPLICABLE STANDARDS

BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 13
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 14
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Butterfly Valves page 53** and **Actuators page 50**

SERIES 75/31



SERIES 75/32



SERIES 75/41



SERIES 75/51



AVK WAFER TYPE, CENTERING LUG, LONG NECK BUTTERFLY VALVE PN10/16

For use with water.

- Semi lugged design
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

AVK SEMI LUGGED CONCENTRIC BUTTERFLY VALVE PN10/16

For use with water.

- Semi lugged design
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

AVK LUGGED CONCENTRIC BUTTERFLY VALVE PN10/16

For use with water.

- Fully lugged design
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.
- Suitable for end of line installation.

AVK FLANGED CONCENTRIC BUTTERFLY VALVE PN10/16

For use with water.

- Flanged concentric design
- Bonded vulcanised rubber lining.
- Low torque operation.
- Streamlined disc shape.
- ISO top flange as standard.
- Bi-directional shut-off seat.
- Suitable for high cycling frequency.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

- Lever operation.
- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating disc and stem options.
- Full range of flange adaptors and dismantling joints.

DN50-200

DN50-200

DN50-1200

DN80-1000

16 Bar.

16 Bar.

16 Bar.

16 Bar.

-30°C to + 110°C

-30°C to + 110°C

-30°C to + 110°C

-30°C to + 110°C

Ductile Iron
GJS-450-15 (GGG-40)

Ductile Iron
GJS-450-15 (GGG-40)

Ductile Iron / Cast Iron

Ductile Iron / Cast Iron

BS EN 593
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

EN 12266
BS EN 593
EN 558 Series 16
BS EN 1092-2 (ISO)
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Butterfly Valves page 53** and **Actuators page 50**

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WATER & WASTE WATER TREATMENT | 19



BUTTERFLY VALVES

SERIES TYPE

SERIES 76/70-002



SERIES 756/100



SERIES 756/102



DESCRIPTION

AVK WAFER BUTTERFLY VALVE, CONCENTRIC WITH LOOSE LINER PN10/16

AVK DOUBLE ECCENTRIC BUTTERFLY VALVE WITH ROTORK GEARBOX AND HANDWHEEL PN10/16

AVK DOUBLE ECCENTRIC BUTTERFLY VALVE WITH ROTORK GEARBOX AND ISO INPUT PN10/16

APPLICATION

For use with water.

For use with water.

For use with water.

MAIN FEATURES

- Anti-blowout 2-stub shaft with uneven hexagon for safe assembly.
- Both shafts carried by low friction PTFE coated bearings.
- Loose liner.
- Streamlined disc.
- Dew point blocker.
- 350 µm epoxy coating, RAL 5017.
- Lever of high strength reinforced synthetic material with 10 position notch plate (DN 50-200).
- Self locking gearbox with handwheel, adjustable end stops and mechanical position indicator (DN 250-300).
- **S76/71-002 AVK Lug Butterfly Valve**

- Flat profile disc reduces head-loss.
- Fusion bonded epoxy coated internally and externally in accordance to DIN 30677-2.
- Disc / shaft interface keyed and pinned.
- European "long" body pattern to EN 558 Series 14.
- 2 Mounting feet and ISO mounting flanges.
- Lifting points.
- Retro fit locking device DN700-1200.
- Shaft sealing replaceable under pressure.
- Rotork gearbox including handwheel and position indicator.

- Stainless steel seat and body ring.
- EPDM replaceable seal.
- Low sealing torque to achieve 100% bi-directional seal.
- Non drive end has a low friction, self lubricating bearing to support the stub shaft. O-ring to seal off pressure.
- The drive end has a low friction self lubricated bearing to support the drive shaft and sealed off by O-ring and gland.
- 756/106-07 - with Rotork IP68 gearbox for buried duty.
- 756/D1 - with bare shaft.

MAIN OPTIONS

- Gearbox for buried service.
- Gearbox for above ground duty with handwheel.
- Electric and pneumatic actuation.
- Various coating options and disc sizes.
- Optional lining materials, disc materials and flange connections
- Full range of flange adaptors and dismantling joints.

- Gearbox for buried service.
- Gearbox for above ground duty.
- Gearbox position variable.
- Handwheel.
- Electric actuation.
- Trim option available PN25 (not all sizes).
- Alternative flange drilling.
- Full range of flange adaptors and dismantling joints.

- 6 Bar and 10 Bar rating.
- Manual gearbox actuation as required.
- Locking plate for external locking of disc in closed position for maintenance.
- 300 microns coating.
- AISI 316 / ASTM A351 Gr. CF8 trim.
- Full range of flange adaptors.

SIZE

DN50-400

DN200-2400

DN200 - 2400

MAX WORKING PRESSURE

16 Bar.

16 Bar.

10 Bar

TEMPERATURE RANGE

-30°C to + 110°C

-10°C to +70°C.

60°C Max

BODY MATERIAL

Ductile Iron / Cast Iron

Ductile Iron
BS EN 1563 EN-GJS-500-7

Ductile Iron
BS EN 1563 EN-GJS-500-7

APPLICABLE STANDARDS

BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 14
Reg 31 compliant
WIMES 8.09 compliant

BS EN 593
BS EN 1092 (ISO 7005-2)
EN 558 Series 14
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Butterfly Valves page 53** and **Actuators page 50**

SERIES 820/10	SERIES 820/20	SERIES 820/100	SERIES 954/10
			
AVK LUGGED DEPONIA BUTTERFLY VALVE CONCENTRIC WITH LOOSE LINER PN10/16	AVK U SECTION DESPONIA BUTTERFLY VALVE CONCENTRIC WITH LOOSE LINER PN10/16	AVK FLANGELESS WAFER DESPONIA BUTTERFLY VALVE CONCENTRIC WITH LOOSE LINER PN10/16	AVK DOUBLE ECCENTRIC DOUBLE FLANGED RESILIENT SEAT BUTTERFLY VALVE
For use with water.	For use with waste water.	For use with water.	For use with water and waste water.
<ul style="list-style-type: none"> Fully lugged design. Loose replaceable liner. Low torque operation. Streamlined disc shape. ISO top flange as standard. Bi-directional shut-off seat. 	<ul style="list-style-type: none"> Double flanged u section. Loose replaceable liner. Low torque operation. Streamlined disc shape. ISO top flange as standard. Bi-directional shut-off seat. 	<ul style="list-style-type: none"> Wafer pattern design. Loose replaceable liner. Low torque operation. Streamlined disc shape. ISO top flange as standard. Bi-directional shut-off seat. 	<ul style="list-style-type: none"> Stainless steel seat and body ring. EPDM Seal. Low sealing torque to achieve 100% bi-directional seal. Non drive end has a low friction, self lubricating bearing to support the stub shaft. O-ring to seal off pressure. The drive end has a low friction self lubricated bearing to support the drive shaft and sealed off by O-ring and gland.
<ul style="list-style-type: none"> Lever operation. Gearbox for buried service. Gearbox for above ground duty with handwheel. Electric and pneumatic actuation. Various coating options and disc sizes. Optional lining materials, disc materials and flange connections. Full range of flange adaptors. 	<ul style="list-style-type: none"> Lever operation. Gearbox for buried service. Gearbox for above ground duty with handwheel. Electric and pneumatic actuation. Various coating options and disc sizes. Optional lining materials, disc materials and flange connections. Full range of flange adaptors. 	<ul style="list-style-type: none"> Lever operation. Gearbox for buried service. Gearbox for above ground duty with handwheel. Electric and pneumatic actuation. Various coating options and disc sizes. Optional lining materials, disc materials and flange connections. Full range of flange adaptors. 	<ul style="list-style-type: none"> PN6, PN10. Manual gearbox, actuation as required. Auto self closing non-return valve options. Locking plate. 300 microns coating. AISI 316 / ASTM A351 Gr. CF8 trim. Full range of flange adaptors.
DN25-600	DN150-1600	DN25-1000	DN2400-4000
16 Bar.	16 Bar.	16 Bar.	10 Bar
-30°C to + 110°C	-30°C to + 110°C	-30°C to + 110°C	60°C Max
Ductile Iron GJS-450-15 (GGG-40)	Ductile Iron GJS-450-15 (GGG-40)	Ductile Iron GJS-450-15 (GGG-40)	Carbon Steel ASTM A36
BS EN 593 BS EN 1092-2 (ISO 7005-2) EN 558 Series 20 Reg 31 compliant WIMES 8.09 compliant	BS EN 593 BS EN 1092-2 (ISO 7005-2) EN 558 Series 20 Reg 31 compliant	BS EN 593 EN 558 Series 20 Reg 31 compliant WIMES 8.09 compliant	BS EN 593 EN 558 Series 13 Reg 31 compliant WIMES 8.09 compliant



AIR VALVES

SERIES TYPE

SERIES 701/10



SERIES 701/13



SERIES 701/30



DESCRIPTION

AVK SINGLE ORIFICE COMPOSITE MATERIAL AIR RELEASE VALVE PN16

AVK SINGLE ORIFICE AIR RELEASE VALVE PN16

AVK LARGE SINGLE ORIFICE AIR RELEASE VALVE PN16

APPLICATION

For use with water and filtered water.

For use with water and filtered water.

For use with water and filtered water.

MAIN FEATURES

- Air release capability 10 times greater than a conventional valve.
- 300 gms. weight.
- Reinforced nylon body.
- Rolling seal.

- Air release capability 10 times greater than a conventional valve.
- 1.7 Kg weight.
- Reinforced nylon body, DZR brass base.
- Vandalism protected by ductile iron shell.
- Rolling seal.

- Releases large volumes (m³) of air from pipelines up to 0.9 Bar.
- Lightweight design.
- Fusion bonded epoxy coating in accordance to DIN 30677-2.
- Corrosion resistant construction.

MAIN OPTIONS

- DN80 NP 16 mounting flange.
- Isolating DZR brass ball valve.
- 1/8" BSP nipple outlet connection.
- Ductile iron body - 701/13.
- 25 bar Ductile iron version - 701/12.
- Vented non-return valves.
- Low pressure options.
- Test point.
- Flange convertor 12-25mm

- DN50 / 80 NP 16 mounting flange.
- Isolating DZR brass ball valve.
- 1/2" BSP brass nipple outlet.
- 25 bar ductile iron version - 701/12.
- Composite material version - 701/10.
- Vented non-return valves.
- Low pressure options.
- Test point.
- Flange convertor 12-25mm

- Butterfly isolating valve 2 - 12".
- Isolating GV and bevel gearbox.
- Isolating ball valve 1" and 2" size only on BSP inlet.
- Available to PN25 and PN40.
- Test point.
- Non-slam facility.
- Vented non-return valves.
- Low pressure options.
- 1/2" BSP outlet connection.
- Alternative flange drillings.
- Other coating available.
- Full range of flange adaptors.

SIZE

DN 1/2", 3/4", 1"

DN 1/2", 3/4", 1"

DN25-300

MAX WORKING PRESSURE

16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

BODY MATERIAL

Glass Reinforced Nylon

Shell Ductile Iron
ASTM A536 Gr. 60-40-18

Ductile Iron
ASTM A536 Gr. 60-40-18

APPLICABLE STANDARDS

BS EN 1074-4
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-4
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-4
BS EN 1092 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

SERIES 701/33	SERIES 701/40	SERIES 701/40L	SERIES 701/43
			
AVK LARGE SINGLE ORIFICE AIR RELEASE VALVE PN16	AVK DOUBLE ORIFICE COMPOSITE MATERIAL AIR RELEASE VALVE PN16	AVK DOUBLE ORIFICE AIR RELEASE VALVE (300 M3/HR) PN16	AVK DOUBLE ORIFICE AIR RELEASE VALVE (450 M3/HR) PN16
For use with waste water.	For use with water and filtered water.	For use with water and filtered water.	For use with water and filtered water.
<ul style="list-style-type: none"> Releases large volumes (m3) of air from pipelines up to 0.5 Bar. Lightweight design. Fusion bonded epoxy coating in accordance to DIN 30677-2. Corrosion resistant construction. 	<ul style="list-style-type: none"> Large orifice will discharge air to over 1 bar pipeline pressure. Lightweight design. Small orifice 10 times more efficient. High velocity air discharge. Suitable for pipelines up to and including DN350. Reinforced nylon body. 	<ul style="list-style-type: none"> Working pressure range 0.05 bar to 16 bar. Releases large volumes of air (300 m3/hr) of air from pipelines up to 16 bar. Discharge from the small orifice is 10 times greater than conventional units. Corrosion resistant construction. Suitable for use with small suspended scuds. 	<ul style="list-style-type: none"> Working pressure range 0.1 bar to 16 bar. Releases large volumes of air (450 m3/hr) of air from pipelines up to 16 bar. Discharge from the small orifice is 10 times greater than conventional units. One piece, lightweight design. Corrosion resistant construction.
<ul style="list-style-type: none"> 25 Bar option. BSP threaded inlets. 3" BSP connection. One way out only. Vacuum breaker, one way in. Non-slam options. Stainless steel manufacture. Full range of flange adaptors. 	<ul style="list-style-type: none"> DN50 or 80 PN16 mounting flange. ½" - 2" NPT or BSPT. ¾" or ½" outlet connection. Isolating DZR brass ball valves. Vented non-return valve. Ductile iron body. Low pressure options. Test point. Various metal base options. 	<ul style="list-style-type: none"> Ball valve isolating. Optional test point. Reinforced nylon construction. Non-slam options. Duplex and SS body material options. Low pressure, 0.02 to 10 bar option. 	<ul style="list-style-type: none"> Ball valve isolating. Optional test point. Reinforced nylon construction. Non-slam options. DI and SS body material options.
DN80-100	DN½", ¾", 1", 2" inlet	DN½", ¾", 1", 2" inlet	DN50
16 Bar.	16 Bar.	10/16 Bar.	16 Bar.
-10°C max. 60°C (temporarily up to 90°C)	-10°C max. 60°C (temporarily up to 90°C)	-10°C max. 60°C (temporarily up to 90°C)	-10°C max. 60°C (temporarily up to 90°C)
Steel Body, Epoxy Coated	Reinforced Nylon	Reinforced Nylon	Reinforced Nylon
BS EN 1074-4 BS EN 1092-2 (ISO 7005-2) WIMES 8.09 compliant	BS EN 1074-4 Reg 31 compliant WIMES 8.09 compliant	BS EN 1074-4 Reg 31 compliant WIMES 8.09 compliant	BS EN 1074-4 Reg 31 compliant WIMES 8.09 compliant



AIR VALVES

SERIES TYPE

SERIES 701/46



SERIES 701/50



SERIES 701/60



DESCRIPTION

AVK DOUBLE ORIFICE AIR RELEASE VALVE (2000 M3/HR @ DN80) PN16

AVK DOUBLE ORIFICE AIR RELEASE VALVE PN16

AVK COMBINATION AIR RELEASE VALVE FOR HIGH FLOW PN16

APPLICATION

For use with water and filtered water.

For use with water and filtered water.

For use with water and filtered water.

MAIN FEATURES

- Working pressure range 0.1 bar to 16 bar.
- Full bore.
- Releases large volumes of air (2000 m³/hr @ DN80) of air from pipelines up to 16 bar.
- Discharge from the small orifice is 10 times greater than conventional units.
- One piece, lightweight design.
- Corrosion resistant construction.

- Releases large volumes (m³) of air from pipelines up to 0.9 Bar.
- Discharge from the small orifice is 10 times greater than from conventional units.
- Lightweight design.
- Fusion bonded epoxy coating in accordance to DIN 30677-2.
- Corrosion resistant construction.

- Working pressure range 0.2 -16 Bar.
- Test pressure for the air valve is 1.5 times its working pressure.
- Aerodynamic design enables high in flow rates and controlled outflow rates of air.
- Reduction in water hammer.
- Fusion bonded epoxy coating in accordance to DIN 30677-2.
- Corrosion resistant construction

MAIN OPTIONS

- Butterfly Isolating valve.
- Isolating gate valve with bevel gearbox.
- Optional test point.
- Reinforced nylon construction.
- Non-slam options.
- Full range of flange adaptors.

- Butterfly isolating valve.
- Isolating gate valve with bevel gearbox.
- Test point.
- Ductile iron small orifice.
- Non-slam facility.
- PN25 versions.
- Vented non-return valves.
- Low pressure options.
- Alternative flange drillings.
- Full range of flange adaptors.

- Butterfly isolating valve.
- Isolating gate valve with bevel gearbox.
- PN25 and PN40 available.
- Low pressure options.
- Non-slam.
- Chambered option.
- Alternative flange drillings.
- Full range of flange adaptors.

SIZE

DN50, 80, 100

DN50-300

DN50-300

MAX WORKING PRESSURE

16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

BODY MATERIAL

Ductile Iron Epoxy Coated

Ductile Iron
ASTM A536 Gr. 60-40-18

Ductile Iron

APPLICABLE STANDARDS

BS EN 1074-4
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-4
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-4
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

SERIES 701/70



AVK COMBINATION AIR RELEASE VALVE PN 16

For use with waste water.

- Working pressure range: 0.2 – 16 bar
- The conical body with funnel-shaped lower body allows maximum air volume and prevents accumulation of deposits at the bottom.
- Drainage and flushing is possible through the drain in the valve's side.
- Mild steel epoxy coated body.

- Isolating gate valve with bevel gearbox.
- Low pressure options.
- Non-slam.
- Chambered option.
- Odour control units.

DN50-200

16 Bar.

-10°C max. 60°C
(temporarily up to 90°C)

Steel Body, Epoxy Coated

BS EN 1074-4
BS EN 1092-2 (ISO 7005-2)
WIMES 8.09 compliant

SERIES 701/75



AVK SQUAT COMBINATION AIR RELEASE VALVE PN10

For use with waste water.

- Under 8kg in weight.
- Reinforced nylon construction.
- Drainage and flushing bosses.
- Small orifice discharge 10 times greater than conventional units.
- Inlet flange connection.
- Height 470mm.

- Non-slam device.
- BSP threaded inlet.
- Isolating knife / ball / gate valve.
- Bevel gearbox.
- 0.1 Bar sealing option.
- Odour control units.
- Chambered option.

DN50-100

0.2 – 10 bar

-10°C max. 60°C
(temporarily up to 90°C)

Reinforced Nylon

BS EN 1074-4
WIMES 8.09 compliant

SERIES 701/78



AVK LARGE COMBINATION AIR RELEASE VALVE PN16

For use with waste water.

- Working pressure range: 0.2 – 16 bar
- The conical body with funnel-shaped lower body allows maximum air volume and prevents accumulation of deposits at the bottom.
- Orifice sizes: Automatic 16 mm², kinetic 5024 mm².
- Drainage and flushing is possible through the drain in the valve's side.
- Mild steel epoxy coated body.

- Non-slam device.
- BSP threaded inlet.
- 16 Bar medium and high performance.
- 0.1 and 0.05Bar sealing option.
- Variable height in chamber.
- Odour control units.

DN80-200

16 Bar.

-10°C max. 60°C
(temporarily up to 90°C)

Steel Body, Epoxy Coated

BS EN 1074-4
WIMES 8.09 compliant

SERIES 701/79



AVK UNDERGROUND AIR RELEASE VALVE PN10

For use with waste water.

- Reinforced nylon air valve construction.
- Drainage and flushing bosses.
- Small orifice discharge 10 times greater than conventional units.
- Inlet flange connection.
- Integral isolator.
- Air valve and isolator encapsulated.

- Non-slam device.
- BSP threaded inlet.
- 16 Bar medium and high performance.
- 0.1 and 0.05Bar sealing option.
- Variable height in chamber.
- Odour control units.

DN80

0.2 – 10 bar

-10°C max. 60°C
(temporarily up to 90°C)

Reinforced Nylon

BS EN 1074-4



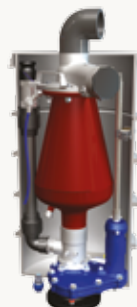
AIR VALVES

SERIES TYPE

SERIES 701/84



SERIES 701/89



SERIES 701/95



DESCRIPTION

AVK UNDERGROUND AIR RELEASE VALVE WITH UNDERGROUND CHAMBER PN16

AVK UNDERGROUND AIR VALVE HIGH PERFORMANCE PN16

AVK DOUBLE ORIFICE AIR RELEASE VALVE PN16

APPLICATION

For use with water and filtered water.

For use with waste water.

For use with waste water.

MAIN FEATURES

- Working pressure range 0.2-16 Bar.
- Test pressure for the air valve is 1.5 times its working pressure.
- Integral isolating valve.
- Insulated chamber.
- Suitable for pipelines upto and including DN350.

- Working pressure range 0.2 bar to 16 bar.
- Releases large volumes of air (2000 m3/hr) of air from pipelines up to 16 bar.
- Discharge from the small orifice is 10 times greater than conventional units.
- DI epoxy coated body.
- Inlet flange connection.
- Integral isolator.
- Air valve and isolator encapsulated.

- Working pressure range 0.05 bar to 16 bar.
- Releases large volumes of air (300 m3/hr) of air from pipelines up to 16 bar.
- Discharge from the small orifice is 10 times greater than conventional units.
- Lightweight design.
- 6.9kgs in weight.
- Corrosion resistant construction.

MAIN OPTIONS

- Non-slam device.
- BSP threaded inlet.
- 0.1 bar pressure.
- Variable lengths.
- Corrosive fluid options.
- Insulation.
- Variable lengths.
- Alternative flange drillings.

- Non-slam option.
- 3" BSP threaded inlet.
- 0.1 bar sealing option.
- Variable height in chambers.
- Odour control units.
- SS air valve body material option.

- Ball valve isolating.
- Isolating gate valve with bevel gearbox.
- Optional test point.
- Reinforced nylon construction.
- Non-slam options.
- Odour control units.
- SS body material option.

SIZE

DN50-100

DN80

DN50, 100

MAX WORKING PRESSURE

10/16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

-10°C max. 60°C
(temporarily up to 90°C)

BODY MATERIAL

PVC / Reinforced Nylon

Ductile Iron Air Valve; PVC Chamber

Reinforced Nylon

APPLICABLE STANDARDS

BS EN 1074-4
BS EN 1092-2 (ISO 7005-4)




BS EN 1074-4

BS EN 1074-4
BS EN 1092-2 (ISO 7005-4)
WIMES 8.09 compliant

SERIES 701/96	SERIES 851/00	FLOOD GUARD	ODOUR CONTROL FILTER ASSEMBLY
			
AVK COMBINATION AIR RELEASE VALVE PN16	AVK DOUBLE ORIFICE AIR RELEASE VALVE PN16/25	SELF-OPERATING FLOOD GUARD FOR AIR VALVES	<p>The Odour Control Filter Assembly unit is ready for use and can be installed on AVK combination air valves for wastewater, series 701/70, 75, 78, 95, 79. The unit absorbs the noxious odours emitted from a wastewater system, which are an unpleasant nuisance in the residential environment. The unit is portable and the spent activated carbon is easily disposable. No heavy equipment is needed and installation is simple and fast.</p> <p>For full details please visit the AVK website.</p> 
For use with waste water.	For use with water.	For external use with water.	
<ul style="list-style-type: none"> Working pressure range 0.2 – 16 bar The conical body with funnel-shaped lower body allows maximum air volume and prevents accumulation of deposits at the bottom. Lightweight design. 8.7kgs in weight. Corrosion resistant construction. 	<ul style="list-style-type: none"> Large air flow capacity A clever float design prevents air rushing out of the system All iron parts with contact to the water are fusion bonded epoxy coated Resilient seals are made of EPDM, seats are ABS or PA All other parts in contact with the water are stainless steel of the highly corrosion resistant AISI 316 type No moving parts are touching the internal coating 	<ul style="list-style-type: none"> Full flow intake and discharge of air Prevents contamination during flooding Self-operating float Mountable on various types of valves Easily installable on existing products Effective emergency measure for failing manholes Zero sealing pressure - new seal concept; closes drip-tight immediately All parts made of composite materials and Lightweight - 3 kg total weight Minimum maintenance 	
<ul style="list-style-type: none"> Isolating gate valve with bevel gearbox. Low pressure options. Non-slam. Chambered option. Odour control units. Flanged or BSP inlet 20/80 NP16 	<ul style="list-style-type: none"> Tool for orifice cover 		
DN50-80	DN50-150	2" - 4"	
16 Bar.	16 Bar.	16 Bar.	
-10°C max. 60°C (temporarily up to 90°C)	-10°C max. 60°C (temporarily up to 90°C)	-10°C max. 60°C (temporarily up to 90°C)	
Reinforced Nylon	Ductile Iron	Stainless Steel / Reinforced Nylon	
BS EN 1074-4 BS EN 1092-2 (ISO 7005-4)	BS EN 1074-4 BS EN 1092-2 (ISO 7005-4) WIMES 8.09 compliant		



PENSTOCKS, STOP LOGS AND FLAP VALVES

SERIES TYPE	SERIES 772/04	SERIES 772/61	SERIES 772/41
			
DESCRIPTION	AVK PENSTOCK	AVK WALL MOUNTING PENSTOCK	AVK CHANNEL MOUNTING PENSTOCK
APPLICATION	For use with water and waste water.	For use with water and waste water.	For use with water and waste water.
MAIN FEATURES	<ul style="list-style-type: none"> • Stainless steel construction. • Drip tight. • Full circumferential sealing. • EPDM seals. • Elastic sealing between wall and frame. • Bi-directional sealing. • Factory set sealing wedges. • Pressure tested. • Replaceable seals. • Stem nut with integrated self-cleaning groove. 	<ul style="list-style-type: none"> • Stainless Steel construction. • 4 sided sealing. • EPDM seals. • Elastic sealing between wall and frame. • Bi-directional sealing 10m on/off • Factory set sealing wedges. • Pressure tested. • Stem nut with integrated self-cleaning groove. 	<ul style="list-style-type: none"> • Stainless steel construction. • 3 sided sealing. • EPDM seals. • Elastic sealing between wall and frame. • Bi-directional sealing. • Factory set sealing wedges. • Pressure tested. • Stem nut with integrated self-cleaning groove.
MAIN OPTIONS	<ul style="list-style-type: none"> • Wall or channel mounting. • Upward and downward opening. • Non-rising or rising stem. • Chemical anchor bolts. • Operating key. • Hand wheel. • Spindle extensions. • Various pressure options. • Gearbox / actuator options. 	<ul style="list-style-type: none"> • Wall or channel mounting. • Upward and downward opening. • Non-rising or rising stem. • Replaceable seals. • Chemical anchor bolts. • Operating key / hand wheel. • Spindle extensions. • Various pressure options. • WRAS approved seal. • Gearbox / actuator options. 	<ul style="list-style-type: none"> • Wall or channel mounting. • Upward and downward opening. • Non-rising or rising stem. • Replaceable seals. • Chemical anchor bolts. • Operating key / hand wheel. • Position indicator. • Spindle extensions. • Various pressure options. • Safox drip tight version. • WRAS approved seal.
SIZE	DN100-3000	DN150-2000 Square	DN150-2000
MAX WORKING PRESSURE	Seated pressure 6m (0.6 Bar)	Seated pressure 6m (0.6 Bar)	Door Depth
TEMPERATURE RANGE	Up to 70°C	Up to 70°C	Up to 70°C
BODY MATERIAL	Stainless Steel SS304 or SS316Ti	Stainless Steel SS304 or SS316Ti	Stainless Steel SS304 or SS316Ti
APPLICABLE STANDARDS	Better than BS7775 Hydraulic tests to DIN 19569-4	Better than BS7775 Hydraulic tests to DIN 19569-4	Better than BS7775 Hydraulic tests to DIN 19569-4 Reg 31 compliant

WEIR GATE VALVE



STOP LOGS



FLAP VALVE



FLAP VALVE



AVK WEIR GATE VALVE

AVK STOP LOGS

AVK ROUND OPENING FLAP VALVE

AVK SQUARE/ RECTANGULAR OPENING FLAP VALVE

For use with water and waste water.

For use with water and waste water.

For use with water and waste water.

For use with water and waste water.

- Stainless steel construction.
- 3 or 4-sided frame design.
- Suitable for wall mounting with a square or rectangular opening.
- Fabricated stainless steel frame and slide, resilient rubber sealing with non-rising or rising spindle available.
- Bi-directional sealing.
- Leakage allowance – lower than allowable in DIN 19569-4 (class 5).
- Replaceable seals.

- Light weight construction.
- Bi-directional sealing.
- Sizes to suit application.
- Lifting devices available i.e. lifting poles or lifting beams.
- Channel or wall mounted.

- The flap stays closed preventing water back-flow, and it opens automatically when the unseating water head is higher than the seating water head.
- For maximum corrosion resistance the flap gates are manufactured from stainless steel or duplex. Where required chemical or exporting anchor bolts can be supplied.

- The flap stays closed preventing water back-flow, and it opens automatically when the unseating water head is higher than the seating water head.
- For maximum corrosion resistance the flap gates are manufactured from stainless steel or duplex. Where required chemical or exporting anchor bolts can be supplied.

- WRAS approved seal available for potable water.
- Electric actuation.
- Manual actuation.

- WRAS approved seal available for potable water.
- Aluminium stop logs are for temporary isolation and flow control.
- Stainless steel stop logs are for waste water treatment plants, irrigation, hydraulic works and hydro electric power plants.

- WRAS approved seal available for potable water.
- Flap valves are available wall or flange mounted.

- WRAS approved seal available for potable water.
- Flap valves are available wall or flange mounted.

DN150-2000

DN150-2000 larger sizes available

DN150-3000 larger sizes available

DN150-3000 larger sizes available

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Stainless Steel

Stainless Steel 304, 316 or Duplex Steel, Aluminium

Stainless Steel or Duplex

Stainless Steel or Duplex

DIN 19569-4
Reg 31 compliant

Reg 31 compliant

Reg 31 compliant
WIMES 8.09 compliant

Reg 31 compliant



KNIFEGATE VALVES

CONTROL

SERIES TYPE

SERIES 702/10

SERIES 702/50

SERIES 859



DESCRIPTION

AVK KNIFE GATE VALVE

AVK KNIFE GATE VALVE WITH ISO TOP FLANGE

AVK RATE OF FLOW CONTROL VALVE PN10/16

APPLICATION

For use with water and waste water.

For use with water and waste water.

For use with water.

MAIN FEATURES

- Handwheel as standard.
- Stainless steel plate, spindle and fasteners.
- Adjustable seals.
- Corrosion resistant construction.
- Fusion bonded epoxy coating.
- All seals EPDM rubber or nitrile.
- Low operating torque.
- Bi-directional flow.
- Cost effective.

- ISO top flange.
- Stainless steel plate, spindle and fasteners.
- Adjustable seals.
- Corrosion resistant construction.
- Fusion bonded epoxy coating.
- All seals EPDM rubber.
- Low operating torque.
- Bi-directional flow.
- Cost effective.

- Full bore and reduced bore options.
- Specific accurate spring ranges available as an option.
- S.S 316 internal and pilot components.
- Epoxy 300 coated internally and externally.
- Lifted seat design.
- Independent opening / closing speed control.
- High capacity filter.

MAIN OPTIONS

- Electric / pneumatic / hydraulic actuation.
- Bevel or spur gearboxes.
- Lever operated version.
- Alternative flange drilling.
- Higher pressure versions to PN200.
- Clockwise to open / close.
- Rising stem / scrapper (702/20).
- WRAS approved seal.
- Alternative seal materials.
- Closed bonnet design.
- Full range of flange adaptors.

- Electric actuation.
- Bevel or spur gearboxes.
- Alternative flange drillings
- Higher pressure versions to PN200.
- Rising stem / scrapper (702/55).
- WRAS approved seal.
- Alternative seal materials.
- Closed bonnet design.
- Full range of flange adaptors.

- 4 Orifice options for each valve size.
- Anti-cavitation trim.
- Multiple pilot options for additional settings.
- Solenoid override to for opened /closed.
- S.S 304 or S.S 316 pipe fittings.
- Additional ball valves on upstream and downstream connections.
- Range of Y strainers.
- Full range of flange adaptors.

SIZE

DN50-2200

DN50-1000

DN50-300

MAX WORKING PRESSURE

Refer to data sheet

Refer to data sheet

16 Bar.

TEMPERATURE RANGE

-10°C to +70°C.

0°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Ductile Iron
BS EN 1561 GJL-HB-195

Cast Iron
BS EN 1561 GJL-HB-195

Ductile Iron
BS EN 1563 EN-GJS-500-7

APPLICABLE STANDARDS

BS EN 1092-2 (ISO 7005-2)
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1092-2 (ISO 7005-2)
EN 558 Series 20
Reg 31 compliant
WIMES 8.09 compliant

BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

Product Specification Checklists for **Knife Gate Valves page 54**, **Control Valves page 56** and **Actuators page 50**

VALVES

SERIES 859



AVK PRESSURE REDUCING CONTROL VALVE PN10/16

For use with water.

- Full bore and reduced bore options.
- Specific accurate spring ranges available as an option.
- S.S 316 internal and pilot components.
- Epoxy 300 coated internally and externally.
- Lifted seat design.
- Independent opening / closing speed control.
- High capacity filter.

- Pilot isolation option.
- Anti-cavitation trim.
- Low pressure PRV for ultra-low downstream pressure (0.1 – 1Bar).
- 0.6 – 6Bar, 5-10Bar and 10-16Bar spring ratings.
- Multiple pilot options
- Solenoid override, fully opened / closed.
- S.S 304 or S.S 316 pipe fittings.
- Additional ball valves for upstream and downstream connections.
- Range of Y strainers.
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563 EN-GJS-500-7

BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

SERIES 859



AVK PRESSURE RELIEF/ SUSTAINING CONTROL VALVE PN10/16

For use with water.

- Full bore and reduced bore options.
- Specific accurate spring ranges available as an option.
- S.S 316 internal and pilot components.
- Epoxy 300 coated internally and externally.
- Lifted seat design.
- Independent opening / closing speed control.
- High capacity filter.

- Anti-cavitation trim.
- 0.6 – 6Bar, 5-10Bar and 10-16Bar spring ratings.
- Multiple pilot options for additional settings.
- Solenoid override for fully opened/closed.
- S.S 304 or S.S 316 pipe fittings.
- Additional ball valves for upstream and downstream connections.
- Range of Y strainers.
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563 EN-GJS-500-7

BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

SERIES 859



AVK LEVEL CONTROL VALVE PN10/16

For use with water.

- Full bore and reduced bore options.
- Specific accurate spring ranges available as an option.
- S.S 316 internal and pilot components.
- Epoxy 300 coated internally and externally.
- Lifted seat design.
- Independent opening / closing speed control.
- High capacity filter.

- Modulating and non-modulating float options.
- Altitude pilot (no float necessary).
- Anti-cavitation trim.
- Multiple pilot options for Solenoid override for fully opened/closed.
- S.S 304 or S.S 316 pipe fittings.
- Additional ball valves for upstream and downstream connections.
- Range of Y strainers.
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563 EN-GJS-500-7

BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

SERIES 859



AVK BOOSTER PROTECTION / SURGE PREVENTION CONTROL VALVE PN10/16

For use with water.

- Full bore and reduced bore options.
- Specific accurate spring ranges available as an option.
- S.S 316 internal and pilot components.
- Epoxy 300 coated internally and externally.
- Lifted seat design.
- Independent opening / closing speed control.
- High capacity filter.

- Multiple pilot options for additional settings.
- Anti-cavitation trim.
- Solenoid override for fully opened/closed.
- S.S 304 or S.S 316 pipe fittings.
- Additional ball valves for upstream and downstream connections.
- Range of Y strainers.
- Full range of flange adaptors.

DN50-300

16 Bar.

-10°C to +70°C.

Ductile Iron
BS EN 1563 EN-GJS-500-7

BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)
Reg 31 compliant
WIMES 8.09 compliant

######

SERIES 621	SERIES 631	SERIES 632	SERIES 635
 			
AVK TENSILE RESISTANT COUPLING PN10/16	AVK SUPAMAXI™ STRAIGHT COUPLING PN16	AVK SUPAMAXI™ STEPPED COUPLING PN16	AVK SUPAMAXI™ TRANSITION COUPLING PN10
For PE and uPVC pipes, for use with water and waste water.	For PE, PVC, AC, GRP all ferrous pipes, for use with water and waste water.	For PE, PVC, AC, GRP all ferrous pipes, for use with water and waste water.	For PE, PVC, AC, GRP all ferrous pipes, for use with water and waste water.
<ul style="list-style-type: none"> • Lightweight design. • Corrosion resistant construction. • Fusion bonded epoxy coating in accordance to WIS 04-52-01 • Angular deflection $\pm 4^\circ$ per pocket. • Stainless steel bolt sets. • Components WRAS approved. • Series 05 internal support bush required. 	<ul style="list-style-type: none"> • Ductile iron sleeve. • Cast steel bracket with epoxy coating. • GSK approved internally and externally. • Max $\pm 4^\circ$ angular deflection. • DVGW and NF approved EPDM rubber gasket. • A2 stainless steel bolts and washers. • A4 stainless steel nuts. • Lifting eye DN100-400. 	<ul style="list-style-type: none"> • Ductile iron sleeve. • Cast steel bracket with epoxy coating. • GSK approved internally and externally. • Max $\pm 4^\circ$ angular deflection. • DVGW and NF approved EPDM rubber gasket. • A2 stainless steel bolts and washers. • A4 stainless steel nuts. • Lifting eye DN100-400. 	<ul style="list-style-type: none"> • Ductile iron sleeve. • Cast steel bracket with epoxy coating. • GSK approved internally and externally to DIN 20677-2. • Max $\pm 4^\circ$ angular deflection on each side. • DVGW and NF approved EPDM rubber gasket. • A2 stainless steel bolts and washers. • A4 stainless steel nuts complete with PE100 Pipe end.
	<ul style="list-style-type: none"> • Gunmetal grip segment for use with PE & PVC. • Internal support bush. • NBR seal option. • Other fixing material options. 	<ul style="list-style-type: none"> • Gunmetal grip segment for use with PE & PVC. • Internal support bush. • NBR seal option. • Other fixing material options. 	<ul style="list-style-type: none"> • Also available with PE100 PN10. • Gunmetal grip segment for use with PE & PVC. • Internal support bush.
DN32-300	DN50-400	DN50-300	DN50-300
16 Bar.	16 Bar.	16 Bar.	10 Bar.
-10°C to +70°C.	-20°C to +70°C.	-20°C to +70°C.	0°C to +40°C
Ductile Iron GGG-40/50	Ductile Iron GJS-400-15	Ductile Iron GJS-400-15	Ductile Iron GJS-400-15
BS EN 12842 WIS 4-52-01 Bolt Sets: WIS 4-52-03 Reg 31 compliant	EN 14525 Reg 31 compliant	EN 14525 Reg 31 compliant	EN 14525 Reg 31 compliant



COUPLINGS

SERIES TYPE

SERIES 258



SERIES 259



SERIES 603



DESCRIPTION

AVK FABRICATED COUPLING PN16/25

AVK FABRICATED STEPPED COUPLING PN10/16/25

AVK UNIVERSAL FLANGE ADAPTOR PN16

APPLICATION

For all ferrous pipes, GRP and uPVC, for use with water and waste water.

For all ferrous pipes, GRP and uPVC, for use with water and waste water.

For all ferrous, uPVC and AC pipes, for use with water and waste water.

MAIN FEATURES

- Can be fabricated in any size, within the design range.
- Corrosion resistant construction.
- Short lead times.
- EPDM seals.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Sealing range nominal diameter +2mm to -5mm.
- Sheraplex® coated bolt sets.
- WRAS approved Components.

Suitable only for cc-GRP (centrifugally cast glass reinforced polyester) and turned end pipes.

- Can be fabricated in any size, within the design range.
- Corrosion resistant construction.
- Short lead times.
- Sheraplex® coated fasteners.
- EPDM seals.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Sealing range nominal diameter +2mm to -5mm.
- WRAS approved Components.

Suitable only for cc-GRP (centrifugally cast glass reinforced polyester) and turned end pipes.

- Universal flange drilled to BS EN 1092-2, with the addition of BS 10 or ANSI B16.1. Class 125 drillings dependant upon nominal size.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Lightweight design.
- Total angular deflection of $\pm 4^\circ$.
- Wide tolerance range.
- Geomet coated bolt sets.
- EPDM seals.
- WRAS approved Components.

MAIN OPTIONS

- Special sizes manufactured to order.
- Bolts and nuts zinc plated and passivated stainless steel.
- Fast track delivery service.
- Body length options.
- Coating thickness.
- 2-24 notch / tie bar options.

- Special sizes manufactured to order.
- Stainless steel, A2, A4, fasteners.
- Fast track delivery service.
- Body length options.
- Coating thickness.

- Sheraplex® Stainless steel bolts.*

*All stainless steel bolts and nuts are coated with delta seal GZ anti-friction coating.

SIZE

DN350-1400

DN350-1400+

DN40-400

MAX WORKING PRESSURE

16/25 Bar

16/25 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Mild Steel
BS EN 10025:1990, Grade FE 430 B

Mild Steel
BS EN 10025:1990, Grade FE 430 B

Ductile Iron
GGG-40

APPLICABLE STANDARDS

WIS-4-52-01
Reg 31 compliant

WIS-4-52-01
Reg 31 compliant

BS EN 1092 (ISO 7005-2)
WIS-4-52-01
WIS 4-52-03
Reg 31 compliant

FLANGE ADAPTORS

SERIES 603/4



AVK DEDICATED FLANGE ADAPTOR PN16

For all ductile iron, cast iron and steel series 1 pipes for water and waste water.

- Flange drilled to BS EN 1092-2 with the addition of BS 10 or ANSI B16.1 Class 125 drillings dependant upon nominal size.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Lightweight design.
- Total angular deflection of $\pm 4^\circ$.
- Dedicated tolerance range.
- Sheraplex® coated bolt sets. Approved Ref WIS 4-52-03.
- EPDM seals.
- WRAS approved Components.

- Stainless steel bolts.

DN80-200

16 Bar.

-10°C to +70°C.

Ductile Iron
EN 1563:GJS 500-7

BS EN 1092 (ISO 7005-2)
WIS-4-52-01 & 03
Reg 31 compliant

SERIES 623



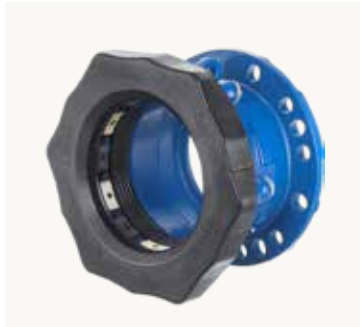
AVK TENSILE RESISTANT FLANGE ADAPTOR PN16

For PE and uPVC pipes, for use with water and waste water.

- Lightweight design.
- Corrosion resistant construction.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Angular deflection + 3.5° per socket.
- Stainless steel bolt sets.
- Components WRAS approved.
- Series 05 Internal support bush required.

BS EN 12842
BS EN 1092 (ISO 7005-2)
WIS-4-52-01
WIS 4-52-03
Reg 31 compliant

SERIES 633



AVK SUPAMAXI™ FLANGE ADAPTOR PN16

For PE, PVC, AC all ferrous pipes, for use with water and waste water.

- Ductile iron sleeve.
- Cast steel bracket with epoxy coating.
- GSK approved internally and externally.
- Max $\pm 4^\circ$ angular deflection.
- DVGW and NF approved EPDM rubber gasket.
- A2 stainless steel bolts and washers.
- A4 stainless steel nuts.
- Universal drilled flange BS EN 1092-2.
- Lifting eye DN100-400

- Gunmetal grip segment for use with PE & PVC.
- Gas options PN10.
- Standard drilled options available.
- Internal support bush.
- NBR seal option.
- Other fixing material options.

DN50-400

16 Bar.

-20°C to + 70°C

Ductile Iron
GJS-400-15

BS EN 14525
Reg 31 compliant

SERIES 260/30



AVK FABRICATED FLANGE ADAPTOR PN10/16/25

For all ferrous, GRP, uPVC and AC pipes, for water and waste water.

- Can be fabricated in any size, within design range.
- Corrosion resistant construction.
- EPDM seals.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Sealing range nominal diameter +2mm to -5mm.
- Sheraplex® coated stud sets.
- Components WRAS approved.

Suitable only for cc-GRP (centrifugally cast glass reinforced polyester) and turned end pipes.

- Special sizes / drilling manufactured to order.
- Specific notching requirements.
- Slotted bolt holes as standard.
- Stainless steel or zinc plated and gold passivated studs and nuts.
- Fast track delivery service.
- Body length options.
- Coating thickness.

DN350-1400+

16/25 Bar.

-10°C to +70°C.

Mild Steel
BS EN 10025:1990 grade FE 430 B

BS EN 1092 (ISO 7005-2)
WIS-4-52-01
Reg 31 compliant



COMBI FLANGES

SERIES TYPE

SERIES 209/30

SERIES 05/I

SERIES 265/30



DESCRIPTION

AVK FLANGE CONVERTER PN10/16

AVK COMBI-FLANGE PN10/16

AVK DISMANTLING JOINT PN16

APPLICATION

For use with water and waste water.

Tensile for Steel, PVC and Ductile Iron pipes, for water and waste water.

All flanged pipe work systems water and waste water.

MAIN FEATURES

- Fusion bonded epoxy coating in accordance to WIS 04-52-01 Class B.
- Studs mild steel zinc plated and passivated.

- The pipe will not move inwards during installation which helps securing a tight connection
- Epoxy coated according to DIN 30677-2
- Tensile version for PE / UPVC
- PN16 Glange

- +/- 60mm axial adjustment on length.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- EPDM seals.
- Tie-rods zinc plated and passivated.
- Sheraplex® coated studs and nuts sets.
- Components WRAS approved.

MAIN OPTIONS

- Drilling variations
- Flange drilling to Table C, D, E and ANSI

- Flange and gasket to be ordered separately.
- Non tensile version
- PN10 flange drilling

- Any flange drilling within design tolerance.
- Extended axial adjustment.
- PN10/PN16/PN25/CL150 version.
- No tie-rods.
- Specific notching requirements.
- Slotted flanges.
- Fastenings A2, A4 stainless steel.
- Fast track delivery service.
- NBR seal option.
- Various face to face lengths

SIZE

DN80-350

DN50-300

DN300-1400

MAX WORKING PRESSURE

16 Bar.

16 Bar.

16 Bar.

TEMPERATURE RANGE

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Cast Iron

Ductile Iron
BS EN 1563 GJS-400-15

Mild Steel
BS EN 10025:1990 grade FE 430 B

APPLICABLE STANDARDS

BS EN 1092 (ISO 7005-2)
WIS-4-52-01
Reg 31 compliant

BS EN 1092 (ISO 7005-2)
DIN 30677-2
WIS-4-52-01
Reg 31 compliant

BS EN 1092 (ISO 7005-2)
WIS-4-52-01
Reg 31 compliant

DISMANTLING JOINTS

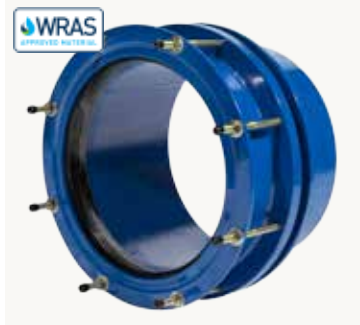
FABRICATED WALL STARTERS

SERIES 265/50

SERIES 265/50

SERIES 717/30-002

SERIES 717/30-003



AVK DISMANTLING JOINT DN50-250 PN16

AVK DISMANTLING JOINT DN300-2200 PN10/16/25

AVK FABRICATED WALL STARTER COUPLING TO PLAIN END (TYPE 2) PN16

AVK FABRICATED WALL STARTER COUPLING TO FLANGE (TYPE 2 3) PN16

For flanged pipe work and fittings, and suitable for use with water and waste water.

For flanged pipe work and fittings, and suitable for use with water and waste water.

Suitable for all service pipes for use with water and waste water..

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

- Axial adjustment on length.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- EPDM seals.
- Tie-rods zinc plated and passivated.
- Tie-rods located on every flange hole.
- A2, A4 stainless steel tie-rods.
- WRAS approved materials.

- Axial adjustment on length.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- EPDM seals.
- Tie-rods zinc plated and passivated.
- Tie-rods located on every flange hole.
- WRAS approved materials.

- Range of fitting lengths 400-1000mm
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Range of fastener materials.
- EPDM seals for water, NBR for waste water.
- WRAS approved materials.

- Range of fitting lengths 400-1000mm
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Range of fastener materials.
- EPDM seals for water, NBR for waste water.
- WRAS approved materials.

- Any flange drilling within design tolerance.
- PN10/PN16/CL150 version.
- Reduced number of tie rods.
- Non-standard body and adjustment lengths.
- Fast track delivery service.
- NBR seal option.
- Various face to face lengths

- Any flange drilling within design tolerance.
- PN10/PN16/PN25/CL150 version.
- Reduced number of tie rods.
- Non-standard body and adjustment lengths.
- Fast track delivery service.
- A2, A4 stainless steel tie-rods.
- NBR seal option.
- Various face to face lengths

- Various terminations - plain ended, flanged (part drilled and tapped), universal coupling or combination of any.

- Various terminations - plain ended, flanged (part drilled and tapped), universal coupling or combination of any.

DN50-250

DN300-2200

DN350-1600

DN350-1600

16 Bar.

16 Bar.

16 Bar.

16 Bar.

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

SG Iron BS EN 1563GJS 450/10
Mild Steel to BS EN 10025 FE360B.B

Mild Steel
BS EN 10025 FE360B.B

Mild Steel EN 10025 S275JR

Mild Steel EN 10025 S275JR

WIS-4-52-01
Reg 31 compliant

WIS-4-52-01
Reg 31 compliant

Reg 31 compliant

BS EN 1092 (ISO 7005-2)
Reg 31 compliant



SERIES TYPE

SERIES 717/30-005



SERIES 717/30-006



SERIES 201/30



DESCRIPTION

**AVK FABRICATED WALL
STARTER COUPLING
FLANGE TO FLANGE
(TYPE 5) PN16**
**AVK FABRICATED WALL
STARTER FLANGE TO PLAIN
END (TYPE 6) PN16**
**AVK LEADLESS SPLIT
REPAIR COLLAR PN7**

APPLICATION

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

For all cast iron pipes, for use with water and waste water.

MAIN FEATURES

- Range of fitting lengths 400-1000mm
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Range of fastener materials.
- EPDM seals for water, NBR for waste water.
- WRAS approved materials.

- Range of fitting lengths 400-1000mm
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Range of fastener materials.
- EPDM seals for water, NBR for waste water.
- WRAS approved materials.

- Dedicated for cast iron pipe work.
- Corrosion resistant design.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- EPDM seals.
- WRAS approved components.

MAIN OPTIONS

- Various terminations - plain ended, flanged (part drilled and tapped), universal coupling or combination of any.

- Various terminations - plain ended, flanged (part drilled and tapped), universal coupling or combination of any.

- Drilled and tapped boss ½" - 2" BSP.
- Emergency service.

SIZE

DN350-1600

DN350-1600

DN50-300

MAX WORKING PRESSURE

16 Bar.

16 Bar.

7 Bar.

TEMPERATURE RANGE

-10°C to +70°C.

-10°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Mild Steel EN 10025 S275JR

Mild Steel EN 10025 S275JR

Grey Cast Iron
GG-25

APPLICABLE STANDARDS

BS EN 1092 (ISO 7005-2)
Reg 31 compliantBS EN 1092 (ISO 7005-2)
Reg 31 compliantWIS-4-52-01
Reg 31 compliant

REPAIR CLAMPS

SERIES 202/30



AVK MULTIPLE BAND REPAIR CLAMP PN10

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

- Versatile design.
- Corrosion resistant construction.
- Lightweight.
- Available in multiples of 150mm upto 2400mm.
- Bitumen coated lugs.
- WRAS approved components.

- Double or triple band option.
- Threaded bosses ½" – 2" BSP.
- For gas version see 202/31.
- Can be fabricated up to DN1400mm OD.
- Emergency service.
- For high pressure version please see the Series 729 - contact for details

DN80-1400

10 Bar ≤ 300mm

-10°C to +70°C.

Stainless Steel
AISI 316

Reg 31 compliant

SERIES 203/30



AVK PIPE SAVER REPAIR CLAMP PN7

Suitable for all service pipes for use with water and waste water.

- Quick and simple to use.
- Corrosion resistant design.
- Lightweight.
- WRAS approved materials.

- Fitting length 60mm or 100mm.
- Hexagon nut or wing nut.
- For gas version see 203/31.
- Emergency service.

DN15-60

7 Bar.

-30°C to + 70°C

Stainless Steel
AISI 316

WIS-4-52-01
Reg 31 compliant

SERIES 206/30



AVK SINGLE BAND REPAIR CLAMP PN7

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

- Excellent re-sealing characteristics.
- Corrosion resistant design.
- Lightweight.
- Versatile design tolerance.
- Length available in multiples of 150mm upto 1200mm.
- Bitumen coated lugs.
- WRAS approved materials.

- Can be manufactured up to 260 OD.
- Threaded bosses ½" - 2" BSP.
- For gas version see 206/31.
- Emergency service.
- For high pressure version please see the Series 729 - contact for details

DN50-350

10 Bar. < 300mm

-10°C to +70°C.

Stainless Steel
AISI 316

Reg 31 compliant

SERIES 253/30



AVK SUPACOLLAR, UNIVERSAL REPAIR CLAMP, WITH TAPPING POINT PN16

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

- Universal across all ferrous pipe types.
- Corrosion resistant construction.
- Large tolerance range.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Can support realigned, laterally displaced pipe-ends.
- WRAS approved materials.

- Drilled and tapped boss ½" - 2" BSP.
- For gas version see 253/31.
- Emergency service.

DN80-300

16 Bar. (1.6 mpa)

-10°C to +70°C.

Ductile Iron
BS EN 1563 GJS-400-15

WIS-4-52-01
Reg 31 compliant



TEES

SERIES TYPE

SERIES 253/40



SERIES 729/01



SERIES 214



DESCRIPTION

AVK UNIVERSAL SUPACOLLAR REPAIR CLAMP PN16

AVK SINGLE BAND REPAIR CLAMP PN7/10

AVK FABRICATED BOLT-ON TEE PN10/16

APPLICATION

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

Suitable for all ferrous pipes, uPVC and AC, for use with water and waste water.

Suitable for all ferrous pressure pipes for use with water and waste water.

MAIN FEATURES

- Universal across all ferrous pipe types.
- Large tolerance range.
- Corrosion resistant construction.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Can support realigned, laterally displaced pipe-ends.
- Tapping point.
- WRAS approved materials.

- Passivated - to ensure an optimum corrosion resistance for a longer asset life.
- Studs are Teflon coated to prevent cold welding (galling).
- Gasket of EPDM rubber with waffle structure and rounded tops.
- DN48-360 on single-section clamps. 10mm tolerance.
- Studs protected with plastic protection caps.

- Can be fabricated in any size, with any branch size and any flange drilling, within the design range.
- Reinforced bolt lugs.
- Two-part, mild steel body.
- Unique EPDM seal design.
- Cup-square bolts to assist easy assembly.
- WRAS approved materials.

MAIN OPTIONS

- Drilled and tapped boss ½" BSP.
- For gas version see 253/31.
- Emergency service.

- Double band for diameters: DN40 up to DN350. Series 729/02
- Different lengths: 150, 200, 250, 300, 400, 500 and 600 mm (other lengths on request).
- PN16 rated up to DN189 as standard, with PN16 option on larger sizes available on request.

- BS EN 1092-2, BS 10 or ANSI drilling.
- Body sizes 350-900mm.
- Branch sizes 80-600mm.
- Short lead times.
- Flange drilling options.

SIZE

DN80-300

DN20-500

DN350-900

MAX WORKING PRESSURE

16 Bar. (1.6 mpa)

16 Bar.

16 Bar

TEMPERATURE RANGE

-10°C to +70°C.

-15°C to +70°C.

-10°C to +70°C.

BODY MATERIAL

Ductile Iron
BS EN 1563 GJS-400-15

Stainless Steel AISI 304.

Mild Steel
BS EN 10025 FE430B

APPLICABLE STANDARDS

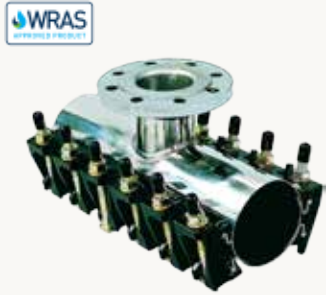
WIS-4-52-01
Reg 31 compliant

Reg 31 compliant

EN 1092-2 (ISO 7005-2)
WIS 4-52-01
Reg 31 compliant

END CAPS

SERIES 215/30



AVK STAINLESS STEEL UNDER PRESSURE TEE PN10

Suitable for under pressure branch connections on all ferrous pipes, uPVC / AC, for use with water and waste water.

- Corrosion resistant.
- Excellent sealing characteristics.
- Versatile design tolerance.
- Lightweight.
- Bitumen coated lugs.
- Any lengths available in multiples of 150mm up to 1200mm.
- WRAS approved materials.

- Can be fabricated up to DN1200.
- Branch sizes 50-600mm.
- Emergency service.

DN80-1200

10 Bar < 300mm

-10°C to +70°C.

Stainless Steel
AISI 316

EN 1092-2 (ISO 7005-2)
Reg 31 compliant

SERIES 257/30



AVK UNIVERSAL TEE PN16

Suitable for all ferrous pipes for use with water and waste water.

- Suitable for all ferrous pipes.
- Corrosion resistant.
- Slotted branch flange.
- Extremely versatile.
- Fusion bonded epoxy coating in accordance to WIS 04-52-01.
- Universal range for all pipe types.
- WRAS approved materials.

- Branch sizes 80 – 300mm.
- BS EN 1092-2 drilling.
- Emergency service.

DN80-300

16 Bar. (1.6 mpa)

-10°C to +70°C.

Ductile Iron
BS EN 1563, GJS-400-15

WIS-4-52-01
Reg 31 compliant

SERIES 248/30



AVK UNIVERSAL END CAP, PN10

Suitable for blanking off the ends of unused ferrous water and waste water pipes.

- Fusion bonded epoxy coated.
- Corrosion resistant.
- Lightweight.
- Simple to use.
- Universal sealing range.
- Suitable for use with non potable water.

- Drilled and tapped boss ½" - 2" BSP.
- Available above 300mm as fabricated version for all ferrous pipe.

DN80-300

10 Bar - water

-10°C to + 70°C

Ductile Iron
BS EN 1563, GJS-400-15

WIS-4-52-01
Reg 31 compliant

SERIES 634



AVK SUPAMAXI™ END CAP

For PE, PVC, AC all ferrous pipes, for use with water and waste water.

- Ductile iron sleeve.
- Cast steel bracket with epoxy coating.
- GSK approved internally and externally to DIN 30677-2.
- Max ±4° angular deflection on each side.
- DVGW and NF approved EPDM rubber gasket.
- A2 stainless steel bolts and washers.
- A4 stainless steel nuts.

- 1 1/4" and 2" drilled & tapped.
- Gunmetal grip segment for use with PE & PVC.
- Gas options PN10.
- Internal support bush.

DN50-300

16 Bar. (1.6 mpa)

-10°C to + 70°C

Ductile Iron
GJS-400-15

EN 14525
GJS-400-12
DIN 30677-2
Reg 31 compliant



	SERIES 08 AVK Handwheel for Series 21, 37, 55 & 54 Gate Valves DN50-600		SERIES 04 AVK Stem Cap for Series 21, 37, 55 & 54 Gate Valves DN50-600 BS 5163-2		SERIES 04/30-004 AVK Extension Spindles for Gate Valves, Heavy duty Length: 100-600 BS 5163-2 Ductile Iron
	SERIES 04/30-001/2 AVK Extension Spindles for Gate Valves, Square Tube Length: 100-600 BS 5163 Ductile Iron		SERIES 90 Mild steel extension spindles Epoxy coated for small valves (35mm Square) Note: Additional lengths available upto 3000mm		SERIES 04/30-005 AVK Wall Bracket Reach length 200-700mm
	SERIES 05 AVK Support Bush For Series 621, 623, 01/79 and the Supa Maxi™ range DN50-600 Stainless Steel AISI 304		MULTI TURN AND QUARTER TURN ACTUATORS For more information on our range of actuators please contact us for details Tel: +44 (0) 1604 601188		SERIES 41/23 AVK Lever & Weight Kit for Swing Check Valves, DN50-300
	SERIES 41 AVK Transparent Plastic Safety Guard To Suit Series 41 Swing Check Valves, DN50-300		Series 41/32 AVK valve spring kit for swing check valves DN50-300		SERIES 758/10 AVK Multi-Turn Bevel Gearbox Ductile Iron
	SERIES 80/30 AVK Synthetic Surface Box Type 4055 For underground hydrants, H-4055 HD-GG, Classic		SERIES 80/31 AVK Synthetic Surface Box Type 4056 For distribution valves, M-4056 MD-GG, Futura		SERIES 204/30 Ferrule Encapsulation Collar DN80-150
	SERIES 208/30 Socket Encapsulation Collar DN80-200		SERIES 224 AVK Under Pressure Drilling Machine 224 Cutter Travel 500mm, PN16 SERIES 227 AVK Under Pressure Drilling Machine 227 Cutter Travel 1050mm, PN70		SERIES 04/15-001 Tee Key Steel

AVK PENTOFLOW

WATER MAINS TO METER

AVK's Pentoflow range: all the fittings needed to go from the water main to beyond the meter. Durable solutions reducing total installation costs of water meters, boundary boxes and related products.



AVK PENTOBX

- 8 Tonne rating, suitable for footpaths and driveways with regular traffic.
- Composite lid allows, if required, AMR technology.
- Available as a fully sealed Class 1 or unsealed Class 2.
- Telescopic with a height adjustment from 555-850mm.
- Patented Push-fit connections - no need to twist.



AVK PENTOMECH

- Innovative seal – ensures a water tight solution.
- Seal design – Improves connections to undersize pipe, pipe showing wear and ovality.
- Seal design – reduces effort to insert pipe in sizes > d50mm.
- Dedicated fittings means dedicated seals, no long term joint stresses.
- All fittings are rated PN16 including Stop taps.



AVK PENTOPUSH

- Push-fit solution where space is tight, no tightening required.
- Slim-line design minimises excavation and space above ground.
- High tech composite materials used gives it a class leading strength, especially with threaded connections.
- Universal range offers complete coverage in pipe sizes from 15-63mm OD.
- Fittings are rated PN16.



AVK PENTOVALVE

- AVK PENTOVALVE plastic Stop taps are available ex-stock.
- AVK PENTOMECH joints – Innovative seal design.
- AVK PENTOVALVE Stop taps are PN16.
- Female gunmetal Stop taps offer flexibility of connection.
- BS 5433 gunmetal Stop taps are a proven material and design with 40 years of reliability.



AVK PENTOTAP

- AVK PENTOTAP ferrules and self tapping saddles are available ex-stock.
- Live connections on to PE, PVC and AC pipe without specialist equipment.
- Pentotap fittings are available up to a pressure rating of PN16.
- 360° rotational banjo outlets with full flexibility of connection.
- Saddles are available up 32" PVCU, d1000mm PE, 28" AC, d800mm Steel and d842mm K9 ductile.

Visit our website to download the **AVK PENTOFLOW** Brochure for the full range!



INVICTA VALVES - WHO WE ARE

THE SITE SOLUTIONS SERVICE OFFER FROM INVICTA VALVES

Our Site Solutions offer delivers a bespoke service that we believe will provide our clients with a comprehensive 'one-stop shop' approach to their projects.

We aim to provide an extensive solution based package designed to combat the challenges that our UK Water Industry clients face on a daily basis. From feasibility and life-time maintenance and from inception to completion, we can provide you with a service that offers best practice, cost efficiency and longevity no matter where you are in the UK.

The Site Solutions Service Includes:

- Valve, Penstock and Actuator – Site Surveys and Health Checks
- Valve, Penstock and Actuator – Supply, Installation, Refurbishment and Replacement
- Design and Manufacture of Ancillary Equipment
- All Associated Enabling, Electrical and Civil Engineering Services
- Equipment Commissioning
- Scheduled Maintenance and Servicing Contracts
- Extended Warranties
- Post Contract Training
- UK Coverage
- Bespoke fabrication services


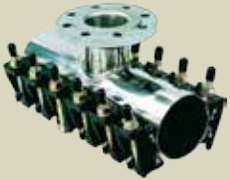

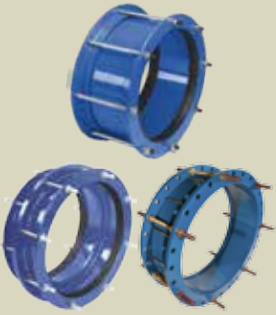


We offer national coverage with premises at Maidstone and Prestwick.



FITTING SERVICE OPTIONS

**24/7 SAME DAY EMERGENCY
REPAIR CLAMP SERVICE
0800 202 8228**

PRODUCT TYPE	FAST AVAILABILITY	EXPRESS AVAILABILITY	EMERGENCY AVAILABILITY
 REPAIR CLAMP GAS & WATER <ul style="list-style-type: none"> S202 Multi-band S206 Single-band ≤DN1200 	2 day	24 hour *	same day / within 24 hours
 STAINLESS STEEL TEES GAS & WATER <ul style="list-style-type: none"> S215 ≤DN300 branch S215 DN350+ branch 	≤DN300 = 2 day DN350+ = 3 day	24 hour *	same day / within 24 hours
 DUCTILE IRON CLAMPS & TEES GAS AND WATER DN80-300 <ul style="list-style-type: none"> S201 Leadless collar water only S253 Supa collars gas & water S257 Supa tees gas & water 	2 day	24 hour *	same day / within 24 hours
 FABRICATED FITTINGS FOR WATER DN350-1400 <ul style="list-style-type: none"> S258 Couplings S259 Stepped couplings S260 Flange adaptors S265 Dismantling joints 	5day	≤DN1200 up to 24 hours* >DN1400 72 hr delivery	Hours from order S258 ≤ DN1200 up to 5hrs DN1400+ up to 72hrs S259 ≤ DN1200 up to 5hrs DN1400+ up to 72hrs S260 ≤ DN1200 up to 7hrs DN1400+ up to 72hrs S265/3 ≤ DN1200 up to 10hrs DN1400+ up to 72hrs

Note: All availability is ex-works *Orders placed by 10am

CUSTOMER PROMISES

Our unique selling propositions enable us to give eight important promises to our customers:

EXPECT SOLUTIONS, NOT JUST PRODUCTS
EXPECT GLOBAL LEADERSHIP AND LOCAL COMMITMENT
EXPECT QUALITY IN EVERY STEP
EXPECT PROMPT RESPONSE

EXPECT LASTING INNOVATIONS
EXPECT TOTAL SAVINGS
EXPECT A LONG-TERM PARTNERSHIP
EXPECT IT TO BE EFFECTIVE AND EASY

When choosing a supplier, our size, competence and expertise should give our customers higher expectations.

SERIES 859 CONTROL VALVE INTERACTIVE SELECTION TOOL



The new user friendly, interactive, product selection tool for control valves allows you to easily view, select and size valves to suit your requirements. By simply identifying a valve using the applications map, you can find all the technical information you need to ensure you have made the correct choice of valve.

Once selected, use the valve sizing program to assist you to confidently select the correct size valve by entering a small amount of application information.

BENEFITS:

- Instant and accurate valve sizing.
- Easy to use site navigation.
- Valve identification.
- Valve application.
- Downloadable technical brochures.

S859 specification sheet on page 56

AVK WEBSHOP



AVK UK proudly launch the new, easy to use, webshop, giving direct access to a range of our popular stocked water and waste water products up to DN600*, with delivery options including next day delivery**, 5 day service or collection.

BENEFITS:

- Direct access to AVK products.
- Easy to use product search bar.
- Mobile user friendly webshop - accessible wherever you are.
- Click and collect.
- Clearance deals.
- Personal account - review your transactions.
- Place repeat orders with a simple click.
- Easy to find product and technical information.

*Products over DN600 need specialised handling - please call us to order.

**Orders made before 1pm

<https://shop.avkuk.co.uk/>



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GATE VALVE SPECIFICATION <DN300

FOR USE WHEN ORDERING

Valve series no		LNS No (if known)	
Size (DN)			

Wedge Type (Click Box)		Closure (Click Box)	
Metal <input type="checkbox"/>	Resilient <input type="checkbox"/>	CWC <input type="checkbox"/>	CWO <input type="checkbox"/>

Pressure Rating (Click Box)			
PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/>	Other:

Termination (Click Box)			
Flanged <input type="checkbox"/>	PE Ended <input type="checkbox"/>	Spigot End <input type="checkbox"/>	Socket Connections <input type="checkbox"/>

Valve Operation (Click Box)			
Cap Top <input type="checkbox"/>	Handwheel <input type="checkbox"/>	Bevel Gearbox <input type="checkbox"/>	Spur Gearbox <input type="checkbox"/>
Actuator (Please complete actuation specification sheet)			

Maximum unbalanced operating pressure:		Flow rate	
---	--	------------------	--

Flange Drilling (Click Box)	PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/>	ANSI <input type="checkbox"/>
------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------

Coating - Preferred Thickness (Click Box)	250 Microns <input type="checkbox"/>	300 Microns <input type="checkbox"/>	Other:
--	---	---	---------------

Datum Levels		Gearbox Operating Conditions	
---------------------	--	-------------------------------------	--

Pipe Orientation (Click Box)		Fluid Details (Click Box)	
Vertical <input type="checkbox"/>	Horizontal <input type="checkbox"/>	Water <input type="checkbox"/>	Sewage <input type="checkbox"/>

Time to Open:		Close:	
----------------------	--	---------------	--

Number of open/close cycles	Day	Week	Month	Year

Other Requirements - Additional Options: e.g Non-rising Stem / Outside Screw & Yoke / Pinned Seats

Documentation (Standard, Special O&M's, Drawing, Test Certification, BIM files if available)

ADDITIONAL PRODUCT RANGES AND SERVICES

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LARGE DIAMETER GATE VALVE SPECIFICATION

FOR USE WHEN ORDERING

Valve series no		LNS No (if known)	
Size (DN)			

Wedge Type (Click Box)		Closure (Click Box)	
Metal	Resilient	CWC	CWO

Pressure Rating (Click Box)			
PN10	PN16	PN25	Other:

Differential Pressure	bar
-----------------------	-----

Orientation - Direction of Spindle (Click Box)			
Vertical	Horizontal, Flanges Vertical (Wedge Guides Required)	Horizontal, Flanges Horizontal	

Valve to be Operated by (Click Box)			
Bare Shaft	Cap Top	Handwheel (May Require Gearbox)	Bevel Gearbox (Essential above DN600)
Spur Gearbox (Essential above DN600)	Actuator (Please complete actuation specification sheet)		

Bypass - Direction of Drive (Click Box)		Fluid Details (Click Box)	
Vertical	Horizontal	Water	Sewage

Other Requirements - Additional Options: e.g Non-rising Stem / Outside Screw & Yoke / Pinned Seats

Documentation (Standard, Special O&M's, Drawing, Test Certification)

Note:

1. For metal seat: When valve stem is horizontal (DN350 and above) Shoes and Channels should be used
2. Flow Rate m/sec: If over 3.5m/s another valve should be considered, please refer to technical support
3. Actuator or gearbox must be used on all manually operated valves above DN600 Dia.

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FOR USE WHEN ORDERING

Documentation (Standard, Special O&M's, Drawing, Test Certification)



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ACTUATOR SPECIFICATION

FOR USE WHEN ORDERING

Basic Technical Information				
Valve size / Type				
Quantity				
Actuator Size				
Actuator Base				
Coupling Type				
Enclosure				
Output RPM				
Power Supply				
Handwheel				
Cover Tube Length				
Output Turns				
Valve Torque				
Wiring Diagram Number				
Closing Direction				
Conduit Entry Sizes				
Technical Information - Settings and Options				
Folomatic Signal Range				
Folo / CPT Low Signal				
Local Control				
Relay S1 Setting		Relay S2 Setting		
Relay S3 Setting		Relay S4 Setting		
Second Stage Gearbox Ordering Information				
Gearbox Size				
Radio				
Output Closing Direction				
Base Size				
For Quarter-turn Operators				
Handing		Spurbox Position		
For Multi-turn Operators				
Base Type		Cover Tube Length		
Number of open/close cycles	Day	Week	Month	Year

Note: Attributes shown in **BOLD TEXT** (for this document only) are mandatory, and your order cannot be fully processed until we have this information. Other attributes have default options which we will supply unless advised in the contrary.

The default option of top handwheel applies to IQ sizes 10 - 40 only. Sizes 70 - 95 have 15:1 side geared handwheel as the default option.

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CHECK / RECOIL VALVES SPECIFICATION

FOR USE WHEN ORDERING

Valve series no		LNS No (if known)	
Size (DN)			
Pressure Rating (Click Box)	PN16	PN25	
Maximum Flow Rate			
Max Pressure Head		Min Pressure Head	
Hinge Pin (Click Box)	Stainless Steel	Stainless Steel A4	Bronze
Fastners (Click Box)	Zinc Plated	Stainless Steel A4	
Flange Drilling (Click Box)	PN10	PN16	PN25
ANSI	Table D	Table E	
Coating - Preferred Thickness (Click Box)			
250 Microns	300 Microns	Other:	
Fluid Details			
Pipe Orientation (Click Box)	Vertical	Horizontal	
System Data (Click Box)			
Single Pump	Multi Pump	Other:	
Surge Equipment Fitted (Click Box)	Yes	No	
Other Requirements - Additional Options e.g Lever, Weight & Guard / Left/Right Side / Bypass Valve / Proximity Switch etc			
Documentation (Standard, Special O&M's, Drawing, Test Certification)			

Note: if possible to correctly size a recoil valve, please provide a hydraulic / surge analysis of the system.

SERIES 701 AIR VALVE SPECIFICATION

FOR USE WHEN ORDERING

Valve series no		LNS No (if known)	
Size (DN)			

Pressure Rating (Click box)			
PN10	PN16	PN25	Other:

Type (Click box)	Single Orifice	Double Orifice
------------------	----------------	----------------

Flow Details			
Minimum Flow:		Minimum Head:	
Maximum Flow:		Maximum Head:	

Flange Drilling (Click box)			
PN10	PN16	PN25	Threaded

Fluid Details	Water	Sewage
---------------	-------	--------

Isolator Type (Click box)			
Ball Valve	Butterfly Valve	Gate Valve C/W	Handwheel C/W
Bevel Gear Box	Other:		

Other Requirements - Additional Options	

Documentation (Standard, Special O&M's, Drawing, Test Certification)

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BUTTERFLY VALVE SPECIFICATION

FOR USE WHEN ORDERING

Valve Series no		LNS No (if known)	
Nominal Bore of Valve (DN200-3000)			
Valve Type (Click box)	Wafer <input type="checkbox"/>	Wafer Lugged <input type="checkbox"/>	Double Lugged <input type="checkbox"/> Lugged <input type="checkbox"/> Mono <input type="checkbox"/>
Pressure Rating (Click box)			
PN6 <input type="checkbox"/>	PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/> Other:
Maximum Unbalanced Operating Pressure (difference between the upstream and downstream pressures)		Flow Details Maximum Flow:	
Type of Movement (Click box)		Type of Seating (Click box)	
Centric <input type="checkbox"/>	Double Eccentric <input type="checkbox"/>	Integral <input type="checkbox"/>	Separate <input type="checkbox"/>
Trim Material (Click box)	Gunmetal <input type="checkbox"/>	Stainless Steel 304 <input type="checkbox"/>	Duplex <input type="checkbox"/> AL.Bronze <input type="checkbox"/> DI / Rilsan <input type="checkbox"/>
Direction of Operation (Click box)		Liner Material (Click box)	
CWO <input type="checkbox"/>	CWC <input type="checkbox"/>	EPDM <input type="checkbox"/>	NBR <input type="checkbox"/>
Flange Drilling Requirements (Click box)			
PN6 <input type="checkbox"/>	PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/> ANSI <input type="checkbox"/>
Coating - Preferred Thickness (Click box)			
100 Microns <input type="checkbox"/>	250 Microns <input type="checkbox"/>	300 Microns <input type="checkbox"/>	Other: <input type="checkbox"/>
Method of Operation (Click box)			
Bareshaft <input type="checkbox"/>	Manual <input type="checkbox"/>	Lever <input type="checkbox"/>	Electrical <input type="checkbox"/> Hydraulic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Actuator (Please complete actuation specification sheet)
Mounted Operation (Click box)			
Direct Mounted <input type="checkbox"/>	Floor Mounted <input type="checkbox"/>	Other:	
Gearbox Operating Conditions (Click box)			
Splash Proof <input type="checkbox"/>	Buried <input type="checkbox"/>	Submersible <input type="checkbox"/>	Marinised <input type="checkbox"/>
Pipe Orientation (Click box)	Vertical <input type="checkbox"/>	Horizontal <input type="checkbox"/>	
Shaft (Click box)	Horizontal <input type="checkbox"/>	Vertical <input type="checkbox"/>	
Fluid Details		Max Temperature	
Number of open/close cycles	Day	Week	Month

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SERIES 702 KNIFE GATE VALVE SPECIFICATION

FOR USE WHEN ORDERING

Size (DN)		LNS No (if known)	
Body Material (Click Box)		Yoke Material (Click Box)	
Ductile Iron <input type="checkbox"/>	Stainless steel <input type="checkbox"/>	Mild Steel <input type="checkbox"/>	Stainless Steel <input type="checkbox"/>
Closure (Click Box)		Spindle (Click Box)	
CWC <input type="checkbox"/>	CWO <input type="checkbox"/>	Rising <input type="checkbox"/>	Non-rising <input type="checkbox"/>
Flange Drilling (Click Box)	PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/>
PN40 <input type="checkbox"/>	PN64 <input type="checkbox"/>	ANSI <input type="checkbox"/>	Other: <input type="checkbox"/>
Differential Pressure (Click Box)	PN10 <input type="checkbox"/>	PN16 <input type="checkbox"/>	PN25 <input type="checkbox"/>
PN40 <input type="checkbox"/>	PN64 <input type="checkbox"/>		
Sealing (Click Box)	Viton <input type="checkbox"/>	Teflon <input type="checkbox"/>	NBR <input type="checkbox"/>
EPDM <input type="checkbox"/>	Silicone <input type="checkbox"/>	Polyurethane <input type="checkbox"/>	
Coating - Preferred Thickness (Click Box)	150 Microns <input type="checkbox"/>	250 Microns <input type="checkbox"/>	300 Microns <input type="checkbox"/>
	Other: <input type="checkbox"/>		
Orientation - Direction of Spindle (Click Box)	Vertical <input type="checkbox"/>	Angled <input type="checkbox"/>	Horizontal <input type="checkbox"/>
Valve to be Operated by (Click Box)			
Bare Shaft <input type="checkbox"/>	Cap Top <input type="checkbox"/>	Handwheel (May Require Gearbox) <input type="checkbox"/>	Bevel Gearbox <input type="checkbox"/>
Spur Gearbox <input type="checkbox"/>	Lever Operation <input type="checkbox"/>	Actuator (Please complete actuation specification sheet)	
Actuation (Click Box)	Electric <input type="checkbox"/>	Pneumatic <input type="checkbox"/>	Hydraulic <input type="checkbox"/>
Actuator Mounting (Click Box)	F10 <input type="checkbox"/>	F14 <input type="checkbox"/>	F16 <input type="checkbox"/>
	F20 <input type="checkbox"/>	F25 <input type="checkbox"/>	
Fluid Details (Click Box)	Water <input type="checkbox"/>	Sewage <input type="checkbox"/>	
Number of open/close cycles	Day	Week	Month
Other Requirements - Additional Options			
Documentation (Standard, Special O&M's, Drawing, Test Certification, BIM files if available)			
Note: Flow Rate m/sec: If over 3.5m/s another valve should be considered, please refer to technical support			

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SERIES 854 BALL FLOAT VALVES SPECIFICATION

FOR USE WHEN ORDERING

Size (DN)		LNS No (if known)	
-----------	--	-------------------	--

Maximum Flow Rate	
-------------------	--

Flange Drilling (Click box)	PN10	PN16
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Coating - Preferred Thickness (Click box)	
---	--

250 Microns	300 Microns	Other:	
-------------	-------------	--------	--

Tank Data (Click box)	
-----------------------	--

Valve Inside Tank	Valve Outside Tank	Top Entry	Bottom Entry
-------------------	--------------------	-----------	--------------

System Data (Click box)	
-------------------------	--

Pumped	Gravity	Other:	
--------	---------	--------	--

Other Requirements - Additional Options

--

Documentation (Standard, Special O&M's, Drawing, Test Certification)
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Note: 854/00 (EX FIG 1006) DN350-600 is only rated at 2.5 bar. If higher pressures are required then use 854/20 (ex fig 1048)



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SERIES 859 - CONTROL VALVE SPECIFICATION

FOR USE WHEN ORDERING

Size (DN)		LNS No (if known)	
------------------	--	--------------------------	--

Operating Data				
Q - Flow (m³/h)	Min:		Max:	
P - Working Pressure (bar)	Min (P1):		Max (P2):	
Pipe Size				
Fluid				
Temperature (°C)				

Construction (Click Box)		
Bore	Full Bore	Reduced Bore
Pressure Class	PN10	PN16

Optional Extras (Click Box)		
Position Indicator	Lifting Device (Bow Nuts BS 3974)	Position Indicator with Limit Switch
Anti-cavitation Trim	Outlet Pressure Gauge	Filter Back Flushing Valve
Inlet Pressure Gauge		

Other Requirements - Additional Options

Documentation (Standard, Special O&M's, Drawing, Test Certification)

Note: Please see the **S859 CONTROL VALVE INTERACTIVE SELECTION TOOL PAGE** available on our website (www.avkuk.co.uk - click on the tech support tab and scroll down) for instant and accurate valve sizing and selection.

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SERIES 764 ECCENTRIC PLUG VALVE SPECIFICATION

FOR USE WHEN ORDERING

Size (DN)				LNS No (if known)			
Flange Drilling (Click Box)	PN10	<input type="checkbox"/>	PN16	<input type="checkbox"/>	ANSI	<input type="checkbox"/>	
Media							
Sealing (Click Box)	EPDM	<input type="checkbox"/>	NBR	<input type="checkbox"/>	Viton	<input type="checkbox"/>	
Orientation - Direction of Spindle (Click Box)	Vertical	<input type="checkbox"/>	Angled	<input type="checkbox"/>	Horizontal	<input type="checkbox"/>	
Valve to be Operated by (Click Box)							
Bare Shaft	<input type="checkbox"/>	Lever Operation	<input type="checkbox"/>	Handwheel	<input type="checkbox"/>	Gearbox	<input type="checkbox"/>
Actuator (Please complete actuation specification sheet)							
Actuation (Click Box)	Electric	<input type="checkbox"/>	Pneumatic	<input type="checkbox"/>	Hydraulic	<input type="checkbox"/>	
Max Pressure - Bar				Flow Velocity			
Max Flow I/S				Pressure Drop / Headloss Ka			
Nominal Flow I/S				Open Position Deg.			
Number of open/close cycles	Day	Week	Month	Year			
Other Requirements - Additional Options							
Documentation (Standard, Special O&M's, Drawing, Test Certification, BIM files if available)							

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PIPE OUTSIDE DIAMETER CHART

NOMINAL BORE		INCHES	0.5	0.75	1	1.25	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10		
		MM	15	20	25	32	40	50	65	80	90	100	125	150	175	200	225	250		
DUCTILE IRON	BS4772 (1988) DIN 28601, 28602 28603, 28605						56 DIN 28601	66 DIN 28605	82 DIN 28605	98			118	144 DIN 28601/3	170		222		274	
uPVC	BS3505		21.4	26.8	33.6	42.3	48.3	60.4		88.9			114.3	140.2	168.3		219.1		273	
	BS3506		21.4	26.8	33.6	42.3	48.3	60.4	75.2	88.9			114.3	140.2	168.3	193.8	219.1	244.5	273	
(IMPERIAL CAST IRON) and ASBESTOS CEMENT (TURNED END)	BS1211(1981) (UT1 27" NB)	CLASS AB ONLY						2.20 55.9	2.72 69.1	3.24 82.3	3.76 95.5			4.80 121.9	5.90 149.9	6.98 177.3	8.06 204.7	9.14 232.2	10.20 259.1	11.26 286.0
		CLASS CD ONLY							2.20 55.9	2.72 69.1	3.24 82.3	3.76 95.5			4.80 121.9	5.90 149.9	6.98 177.3	8.06 204.7	9.14 232.2	10.20 259.1
	BS78 (1981)																			
	BS486 (1966)	NON STD							2.25 57		3.25 82.5									
STEEL	ISO/4200 (1991)	SER 1	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9			114.3	139.7	168.3		219.1		273	
		SER 2		25.0	32.0	40.0	57.0	63.5	70.0		101.6	127.0	133.0							
		SER 3		25.4	30.0	44.5	54.0		73.0	82.5		108.0	141.3	159.0	193.7		244.5			
		SER 3		35.0									152.4	177.8						
	BS1387		21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9			114.3	139.7	165.1					
	BS3600 (1998) & BS3601 (1993) (pipe ends to BS534 1990)		21.4	26.8	33.6	42.3	48.3	60.4	76.1	88.9	101.6	114.3	139.7	168.3	193.7	219.1	244.5	273		
	API 5L & BS1600		21.4	26.7	33.4	42.2	48.3	60.3	73.0	88.9	101.6	114.3	141.3	168.3		219.1		273.1		
GRP	BS5480															220		272		
METRIC ASBESTOS CEMENT (TURNED END)	BS486	CLASS 15												177		232	259	286		
		CL SS 20														232	259	286		
		CLASS 25						69		96		122		177		240	268	295		
ABS	BS5391																			
uPVC & POLYETHYLENE (METRIC) BS5556 (ISO/161/1)		METRIC uPVC & PE HAVE A DESIGNATED NOMINAL BORE WHICH IS US																		
			16	20	25	32	40	50	63	75	90	110	125	140	160					

12	14	15	16	18	20	21	22	24	26	27	28	30	32	33	34	36	40	42	44	48	52	56	64	72	80
300	350	375	400	450	500	525	550	600	650	675	700	750	800	825	850	900	1000	1050	1100	1200	1300	1400	1600	1800	2000

326	378		429	480 BS ONLY	532			635			738		842			945	1048		1152 BS ONLY	1255 BS ONLY		1462 BS ONLY	1668 BS ONLY		
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323.9	355.6		406.4	457.2	508			609.6																	
323.9	355.5		406.4	457.2	508		558.8	609.6																	

13.14 333.8	15.22 387	16.26 413	17.30 439	19.38 492	21.46 545	22.50 572	23.54 598	25.60 650	27.66 703	28.70 729	29.72 755	31.78 807	33.84 860	34.88 886	35.92 912	37.96 964	42.06 1068	44.12 1121	46.16 1172	50.26 1277					
13.60 345.4	15.72 399.3	16.78 426.2	17.84 453.1	19.9 506.9	22.06 560.3	23.12 587.2	24.16 613.7	26.26 667.0	28.36 720.3	29.40 746.8	30.44 773.2	32.52 826.0	34.62 879.3	35.66 905.8		38.76 984.5	42.92 1090.2	45.00 1143.0		51.20 1300.5					

323.9	355.6		406.4	457	508			610			711		813			914	1016	1067	1118	1219		1422	1626	1829	2032
										762								1168		1321					
						559		660						864											
323.9	355.6		406.4	457	508		559	610	660		711	762	813		864	914	1016			1219		1422	1626	1829	2032
323.9	355.6		406.4	457.2	508		559	609.6	660.4		711.2	762	812.8		863.6	914.4	1016	1066.8	1117.6	1219.2	1320.8	1422.4	1125.6	1828.8	2032

324	376		427	478	530			633			718		820			924	1027		1144	1228	1350	1449	1640	1844	2048
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334	392		448	498	568			654			761	808	882		927	970								
345	405		463	515	586			672			780	830	904		952	996								
356	419		478	532	605			691			801	852	915		977	1024								

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UALLY THE SAME AS THE OUTSIDE DIAMETER. QUOTE PIPE CLASS, RATING OR WALL THICKNESS ON ENQUIRIES																									
0	180	200	225	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600	1800	2000					

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Expect... **AVR**