

PIPE JOINT SOLUTIONS

Expect... **AVK**
الشركة السعودية لصناعة الصمامات المحدودة
SAUDI VALVES MANUFACTURING CO. LTD.

EXPECT SUPREME PRODUCTS

AVK is one of the leading manufacturers of valves for the water, gas and sewage industries as well as fire protection worldwide. Our product programme comprises a large range of valves, hydrants, pipe fittings and accessories, each complying with the highest standards of safety and durability. Today, AVK is the only manufacturer offering gate valves that meet to most of the common national and international standards such as ISO, CEN, DIN, NF, BS, AWWA, JWWA, SABS, AS and GOST. Our global position ensures that we are able to give you, your partners and your customers the quality products you require.

WHEN IT COMES TO QUALITY AT AVK, NOTHING IS LEFT TO CHANCE

AVK's products are characterized by a high, consistent quality, competitive prices and a durability in line with market requirements. This calls for strict quality control of the production process from beginning to end leading to AVK being certified according to ISO 9001.

PRODUCT DEVELOPMENT

Market proximity is an important part of AVK's strategy; close contact with the end-user ensures close monitoring of the market as well as constant adaptation and development of the product programme to meet with market requirements. This takes place in our development department in Denmark, an advanced technology centre, where ideas and suggestions from different countries are gathered and existing products are continually adapted and tested. In co-operation with the end user, the products are field tested before the final market launch, thus achieving the best result in each individual market.

PRODUCTION

Production takes place in Saudi Arabia, Denmark, the UK, Netherlands, France, Poland, USA, Australia, Germany, Spain, Switzerland, Malaysia, Japan, China, India and Canada. AVK products are also produced under license in several other countries. Stock control and distribution to end users are handled through a wide network of sales companies, agents and dealers in more than 85 countries. This network services the end-user, allowing AVK to monitor market changes and keep abreast of customer requirements.

AVK FOCUSES ON THE ENVIRONMENT

The products of AVK form part of infrastructures, which play an important role for the local environment all over the world. This, for example, applies to the supply of pure drinking water and the draining of wastewater to treatment plants. As a natural consequence of this, AVK focuses on the environment in all of its internal processes.



FITTINGS FOR WATER AND WASTEWATER VALVES

AVK is a leading manufacturer and supplier of a wide range of high quality, dedicated & tensile flange adaptors and couplings to suit the majority of pipeline materials for use in water and waste water applications from DN40mm up to 1600mm. In addition, AVK manufacture dismantling joints, under pressure tees, pipe repair products, and other required accessories for Water and Wastewater applications. All products are manufactured within AVK group companies.

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

Sales@avksvmc.com





COMPLETE RANGE OF HIGH QUALITY FITTINGS

AVK offers a wide range of universal and dedicated couplings, flange adaptors and end caps designed for easy installation. The excellent corrosion protection and rubber quality ensure durable solutions.

Excellent corrosion protection

AVK controls each batch of epoxy coated components to ensure a layer thickness of minimum 250 μ , a pore-free surface, high impact resistance and adequate curing.

Furthermore, AVK provides a variety of coating colors, types and schemes that suits different water services and environments. Whether the product going to be installed underground or aboveground, in a clean water or in harsh water application, our experienced technical team can assist in selecting the right coating for the right application .

The different schemes of Fusion Bonded Epoxy and Wet Epoxy coatings offered by AVK for potable, treated, raw and oily water applications will assure the durability and long life time of your product.

State-of-the-art rubber technology

The rubber for the gaskets and seals is developed and produced by AVK GUMMI A/S with the use of highly advanced technologies.

The EPDM rubber composition is designed to minimise the building of biofilm to prevent the rubber from forming breeding ground for bacteria. The compound is also resistant to ozone and water treatment chemicals such as sodium hypochlorite solutions.

Furthermore, AVK's EPDM rubber has a unique compression set, meaning the ability to regain original shape. Even after many years of service where the rubber has been compressed numerous times, it will regain its original shape and ensure a tight sealing.



SUPA[®]

UNIVERSAL NON-TENSILE COUPLINGS & ADAPTORS



The AVK Supa[®] universal straight couplings, step couplings and flange adaptors are suitable for PVC, cast iron, ductile iron, steel and AC pipes. The couplings range from DN40 to 400 and are suitable for water and wastewater applications.

With its wide tolerance span and $\pm 4^\circ$ angular deflection on each side the AVK Supa[®] range is a very flexible coupling system used for the assembly of pipes of various materials and repair of old piping systems.

- $\pm 4^\circ$ angular deflection on each side (total 8°).
- Drinking water approved EPDM gasket with moulded ribs absorbs minor imperfections in the pipe.

- The design with external bolts prevents corrosion between sleeves and bolts.
- Ductile iron with epoxy coating according to DIN 30677-2 and AVK guidelines.



Straight coupling



Step coupling



Flange adaptor

PRODUCT SELECTOR

SERIES TYPE

601



AVK UNIVERSAL COUPLING

For use with water and neutral liquid

MAIN FEATURES AND BENEFITS

- Lightweight design
- Fusion bonded epoxy coating
- Wide tolerances fitting of $\pm 4^\circ$
- EPDM seals
- Drinking water approved
- Sheraplex[®] coating bolt option

OTHER OPTIONS

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

*PTFE

SIZE

DN40 - 400

MAX WORKING PRESSURE

PN16

TEMPERATURE RANGE

-10°C to +70°C

BODY MATERIAL

Ductile Iron
GGG-40/50

602



AVK UNIVERSAL STEPPED COUPLING

For use with water and neutral liquid

- Extensive 'step' range
- Fusion bonded epoxy coating
- Total angular deflection across fitting $\pm 4^\circ$
- Sheraplex[®] coated bolt sets
- Lightweight design
- EPDM seals
- Sheraplex[®] coating bolt option

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

*PTFE

DN40 - 400

PN16

-10°C to +70°C

Ductile Iron
GGG-40/50

603



AVK UNIVERSAL FLANGE ADAPTOR

For use with water and neutral liquid

- Universal flange drilled to BS EN 1092-2, with the addition of BS 10
- Fusion bonded epoxy coating
- Lightweight design
- Total angular deflection of $\pm 4^\circ$
- Wide tolerance range
- EPDM seals
- Sheraplex[®] coating bolt option

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

*PTFE

DN40 - 400

PN16

-10°C to +70°C

Ductile Iron
GGG-40/50

SUPA[®]

UNIVERSAL NON-TENSILE COUPLINGS AND ADAPTORS / PIPE COMPATIBILITY

Series	601	602	603
Product Description	Universal Supa [®] Coupling	Universal Stepped Supa [®] Coupling	Universal Supa [®] Flange Adaptor
Range	DN40 - 400	DN40 - 400	DN40 - 400
End Restraint	No	No	No
Pipe Material			
Polyethylene			
PVC	•	•	•
Ductile iron pipe	•	•	•
Cast iron class AB	•	•	•
Cast iron class CD	•	•	•
GRP			
Steel pipe	•	•	•
Stainless Steel pipe	•	•	•
Clay			
Concrete			
Asbestos Cement	•	•	•

SUPA PLUS[™]

TENSILE COUPLINGS & ADAPTORS DEDICATED FOR PE AND PVC PIPES



AVK Supa Plus[™] is a range of high quality couplings, flange adaptors and end caps in DN40-315 dedicated for PE and PVC pipes. The Supa Plus[™] range is a strong supplement to AVK's renowned Supa[®] and Supa Maxi[™] range and is suitable for water and wastewater applications.

Supa Plus[™] couplings offer a great flexibility and are very easy to mount because of the combined compression gasket which enables a large angular deflection and makes it easy to insert the pipes.

• The combined gasket of drinking water approved EPDM rubber with tensile grip segments of RG5 bronze enables $\pm 3.5^\circ$ angular deflection on each side (total 7°)

• The design with external bolts prevents corrosion between sleeves and bolts.

• The M16 bolts of stainless steel A2 and the nuts of acid-resistant stainless steel A4 are anti-friction coated to offer easy tightening and to prevent galling.

• Combined gasket and tensile ring for maximum security.
• Sleeve and bracket of ductile iron with epoxy coating according to DIN 30677-2 and AVK guidelines.

• The couplings are delivered with tape securing the bolts during transport and handling. A mounting instruction is printed on the tape.



Straight coupling



Flange adaptor

PRODUCT SELECTOR

SERIES TYPE

621



623



DESCRIPTION

AVK TENSILE RESISTANT COUPLING

AVK TENSILE RESISTANT FLANGE ADAPTOR

APPLICATION

For use with water and neutral liquid

For use with water and neutral liquid

MAIN FEATURES AND BENEFITS

- Lightweight design
- Corrosion resistant construction
- Fusion bonded epoxy coating
- Angular deflection $\pm 3.5^\circ$ per pocket
- Stainless steel bolt sets
- Series 05 internal support bush required, See page 19

- Lightweight design
- Corrosion resistant construction
- Fusion bonded epoxy coating
- Angular deflection $+ 3.5^\circ$ per socket
- Stainless steel bolt sets
- Series 05 internal support bush required, See page 19

SIZE

DN32 - 300

DN40 - 300

MAX WORKING PRESSURE

PN16

PN16

TEMPERATURE RANGE

-10°C to +70°C

-10°C to +70°C

BODY MATERIAL

Ductile Iron
GGG-40/50

Ductile Iron
GGG-40/50

SUPA PLUS[®] TENSILE COUPLING & ADAPTOR PIPE COMPATIBILITY

Series

621

623



Product Description	Dedicated Supa Plus™ Tensile Coupling	Supa Plus™ Tensile Flange Adaptor
Range	DN32 - 300	DN40 - 300
End Restraint	Yes	Yes
Polyethylene	•	•
PVC	•	•
Ductile iron pipe		
Cast iron class AB		
Cast iron class CD		
GRP		
Steel pipe		
Stainless Steel pipe		
Clay		
Concrete		
Asbestos Cement		

SUPA MAXI™

TENSILE UNIVERSAL RANGE of COUPLINGS & ADAPTERS



Supa Maxi™ is the latest addition to AVK's range of Supa® couplings. It comprises a complete range of large tolerance universal tensile straight couplings, step couplings, flange adaptors, end caps and transition couplings to EN 14525 for water and wastewater applications.

Supa Maxi™ sets a new standard with its unique features:

- Fully universal and tensile on all pipe materials
- Patented SupaGrip™ sealing support system with flexible bracket
- PN16 in all dimensions for water (WP -0,9 to 16 bar)
- $\pm 4^\circ$ (8° in total) angular deflection on each side, even at minimum pipe size
- The pipe will not move inwards when tightening - no longitudinal movement
- Permanent protection caps protect during handling and installation
- Bolts are tightened on the bolt head from the sleeve side
- No re-tightening of bolts needed
- Lifting eye on sizes with a weight exceeding 10 kilos (DN100-400)
- Fusion bonded epoxy coating to DIN 30677-2, GSK approved
- Gasket of EPDM rubber approved for drinking water/NBR approved for gas
- Temperature range -20°C to $+70^\circ\text{C}$
- The gate valve provides extra safety when repairing old pipes. With a built-in gate valve it is easy to shut-off the water in case of further repair or replacement of the pipeline at a later stage.



Straight coupling

Flange adaptor

Step coupling

End cap

Transition coupling

Before tightening



After tightening



The patented SupaGrip™ sealing support system with a flexible bracket, and combined with the unique grip design, SupaGrip™ provides superior tightness and tensile resistance on all pipe dimensions and materials.

Flexible bracket with rigid metal backup

SupaGrip™ provides full support and backup of the gasket, even on minimum pipe size within the tolerance range and when used on oval pipes.

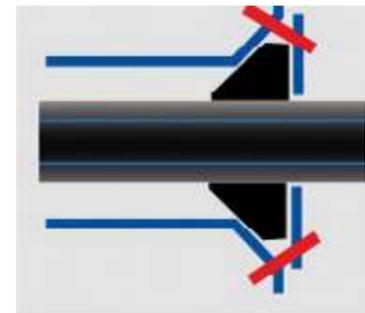
The flexible bracket is designed to contact and follow the external pipe diameter. As a result, it serves as a solid backup for the gasket and enables $\pm 4^\circ$ deflection up to 1.5 x PN test pressure.

When tightening the bolts, the bracket segments and bolts move inwards, ensuring that the gasket tightens around the pipe and that the grip segments grip into the pipe surface.

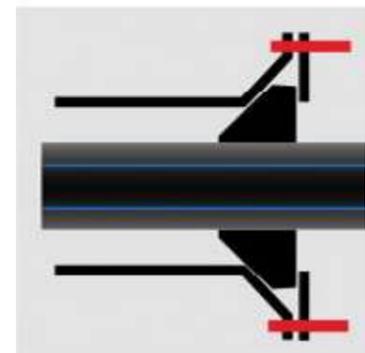
Tensile on all pipe materials

Optimum grip and tensile abilities on all pipe materials are secured by means of two different metal grip segments - gunmetal for PE and PVC pipes and hardened stainless steel for cast iron, ductile iron, steel, stainless steel, GRP, and AC pipes. The couplings are designed according to EN 14525.

The grip segments are mounted with pins on the bracket segments to provide maximum durability. The high quality materials safeguard that the sealing does not lose compression over time, and that the coupling stays tensile.



Supa Maxi™



Typical coupling

OPTIMISED HANDLING AND INSTALLATION

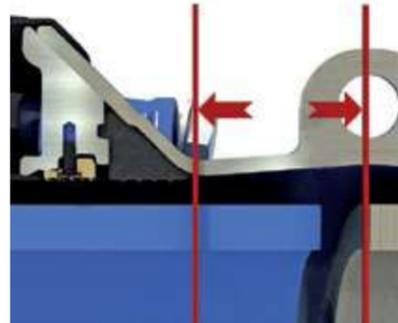
AVK Supa Maxi™ couplings and adaptors offer maximum flexibility, facilitating a secure, fast and easy installation even under difficult conditions.

Reduce time spent on installation

The couplings enable $\pm 4^\circ$ deflection on each side (in total 8°) up to a maximum pressure of PN16.

The large insertion depth tolerances allow the pipe to be cut slightly angled. This gives a simple installation without need for precise adjustment.

All items with a weight exceeding 10 kilos are designed with a lifting eye on the sleeve enabling easy and ergonomically safe handling.



Optimised bolt design

The bolt design is optimised for fast and simple assembly. The bolts are tightened from the sleeve side to ease assembly when space in the trench is limited, and the threads are protected by the permanent protection cap.

The nuts are captured in the bracket and covered by a protection cap to ensure that they will not fall off when loosening the bolts.

Re-tightening of bolts is not necessary due to the all metal SupaGrip™ sealing support system. The bolts and nuts are anti-friction coated to prevent galling.

Permanent protection cap

During handling the centre piece of the protection cap covers the sharp grip segments and prevents dirt from settling inside the coupling. When the centre piece is removed the coupling is ready for installation.

High quality materials

The couplings are designed with sleeves of ductile iron and brackets of cast steel with epoxy coating to DIN 30677-2, GSK / WRAS approved.

The gaskets of EPDM rubber are approved by NF and DVGW for drinking water applications and the gaskets of NBR rubber are approved by DVGW and Gastec.

The bolts and washers are of stainless steel A2 as standard and optionally of A4. The nuts are of acid-resistant stainless steel A4.

The grip segments are of RG5 bronze and hardened stainless steel, mounted with pins of polyamide.

The permanent protection caps of recyclable PE are black for water and wastewater applications and yellow for gas applications.



PRODUCT SELECTOR

SERIES TYPE

631



632



633



DESCRIPTION

AVK SUPA MAXI™ STRAIGHT COUPLING

AVK SUPA MAXI™ STEPPED COUPLING

AVK SUPA MAXI™ FLANGE ADAPTOR

APPLICATION

For use with water and waste water

For use with water and waste water

For use with water and waste water

MAIN FEATURES AND BENEFITS

- 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
- Series 05 internal support bush required only when installing PE pipe, See page 19

- 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 DN100-300
- Series 05 internal support bush required, See page 19

- 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
- Lifting eye DN100-400
- Series 05 internal support bush required only when installing PE pipe, See page 19

OTHER OPTIONS

- Gunmetal grip segment for use with PE & PVC
- Internal support bush
- NBR seal option
- Other fixing material options

- Gunmetal grip segment for use with PE & PVC
- Internal support bush
- NBR seal option
- Other fixing material options

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

SIZE

DN50 - 600

DN50 - 300

DN50 - 450

MAX WORKING PRESSURE

PN16

PN16

PN16

TEMPERATURE RANGE

-20°C to +70°C

20°C to +70°C-

-20°C to + 70°C

BODY MATERIAL

Ductile Iron
GJS-400-15

Ductile Iron
GJS-400-15

Ductile Iron
GJS-400-15

PRODUCT SELECTOR

SERIES TYPE

634



635



DESCRIPTION

AVK SUPA MAXI™ END CAP

AVK SUPA MAXI™ TRANSITION COUPLING

APPLICATION

For use water and waste water

For use with water and waste water

MAIN FEATURES AND BENEFITS

- Ductile iron sleeve
- Cast steel bracket with epoxy coating
- GSK approved internally and externally to DIN 30677-2
- 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
- Series 05 internal support bush required, See page 19

- Ductile iron sleeve
- Cast steel bracket with epoxy coating
- GSK approved internally and externally to DIN 30677-2
- Max $\pm 4^\circ$ angular deflection. rubber gasket
- A2 stainless steel bolts and washers
- A4 stainless steel nuts
- Lifting eye DN100-300 With PE pipe included
- The pipe will not move inwards when tightening
- Series 05 internal support bush required, See page 19

OTHER OPTIONS

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

- Gunmetal grip segment for use with PE & PVC
- Internal support bush
- NBR seal option
- Other fixing material options

SIZE

DN50 - 400

DN50 - 300

MAX WORKING PRESSURE

PN16

PN16

TEMPERATURE RANGE

-10°C to + 70°C

20°C to +70°C-

BODY MATERIAL

Ductile Iron
GJS-400-15

Ductile Iron
GJS-400-15

SUPA MAXI™

TENSILE UNIVERSAL RANGE OF COUPLINGS & ADAPTORS / PIPE COMPATIBILITY



Series	631	632	633	634	635
Product Description	Universal Supa Maxi™ Tensile Coupling	Universal Supa Maxi™ Tensile Coupling	Universal Supa Maxi™ Tensile Flange Adaptor	Universal Supa Maxi™ End Cap	Supa Maxi™ Transition Coupling
Range	DN50 - 600	DN50 - 300	DN50 - 450	DN50 - 400	DN50 - DN300
Flange Drilling	N/A	N/A	PN10/16/25	N/A	N/A
End Restraint	Yes	Yes	Yes	Yes	Yes
Pipe Material	Polyethylene	•	•	•	•
	PVC	•	•	•	•
	Ductile iron pipe	•	•	•	•
	Cast iron class AB	•	•	•	•
	Cast iron class CD	•	•	•	•
	GRP	•	•	•	•
	Steel pipe	•	•	•	•
	Stainless Steel pipe	•	•	•	•
	Clay	•	•	•	•
	Concrete	•	•	•	•
Asbestos Cement	•	•	•	•	

COUPLINGS AND ADAPTORS SUPPORT BUSH



The AVK Support bush

Is designed for use with all products which join plain-ended pipes and have an end load resistant mechanism that grips onto a range of materials including PVC and PE.

The support bush helps prevent deformation of PE and PVC pipes when a mechanical joint is used. Without the support bush the pipe would be liable to lose its shape due to the pressure induced from the fitting, this could then have effects on the seal of the joint and performance of the pipeline.

This product is to be used with all the following AVK products including Series:
621, 623, 631, 632, 623, 633, 634, 635 and 05/60

Installation Instructions

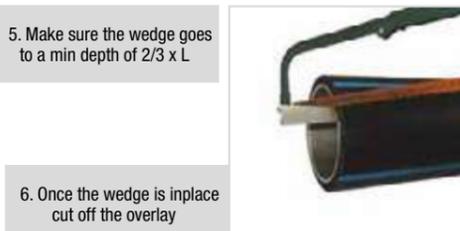
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1. Make sure pipe end is free from burrs
- 

2. Remove support bush from its packet
- 

3. Insert support bush in to the pipe until flush with the pipe end
- 

4. Insert the wedge until resistance is felt then use a hammer
- 

5. Make sure the wedge goes to a min depth of 2/3 x L
- 

6. Once the wedge is in place cut off the overlay

PRODUCT SELECTOR

SERIES TYPE

05/E-008



DESCRIPTION

AVK SUPPORT BUSH, WEDGE TYPE

APPLICATION

Use with water and waste water

MAIN FEATURES AND BENEFITS

- Support bush is manufactured from stainless steel AISI 304
- In order to prevent corrosion, the support bush is pickled and passivated
- Standard sizes are SDR 11, SDR 13.6, SDR 17 and SDR 17.6. Other SDR sizes are available on request
- Available for PE pipes DN50 - DN 400. Other DN sizes are available on request

SIZE

DN20 - 400

MAX WORKING PRESSURE

PN16

TEMPERATURE RANGE

-10°C to +70°C

BODY MATERIAL

Stainless Steel 304



FABRICATED NON-TENSILE DEDICATED COUPLINGS AND FLANGE ADAPTORS



AVK's range of fabricated fittings comprises non-tensile straight couplings, step couplings and flange adaptors in DN350-1600. The range is suitable for ductile and grey cast iron, steel, PVC and GRP pipes (optionally for PE pipes) for water and wastewater applications.

AVK fabricated couplings and adaptors are designed to facilitate the joining of pipe of matching or differing outside diameter (OD) or for fitting flanged equipment into pipeline systems.

Increased coating thickness and a range of fastener options including A2 and A4 stainless steel are available for more aggressive installation environments. All materials are certified as suitable for use with potable water.

The AVK fabricated fittings range is highly versatile where any pipe OD or flange variant can be accommodated within the range.

The sealing arrangement allows a tolerance of 7mm ensuring that minor deviations in OD can be accommodated. Angular deflection per seal end is +4 mm < DN600, +3 mm < DN800, +2 mm < DN1600.



Straight coupling



Step coupling



Flange adaptor

PRODUCT SELECTOR

SERIES TYPE

258



259/30



260/30



DESCRIPTION

AVK FABRICATED COUPLING

AVK FABRICATED STEPPED COUPLING

AVK FABRICATED FLANGE ADAPTOR

APPLICATION

For use with water and waste water

For use with water and waste water

For use with water and waste water

MAIN FEATURES AND BENEFITS

- Can be fabricated in any size, within the design range
- Corrosion resistant construction
- EPDM seals
- Fusion bonded epoxy coating
- Sealing range nominal diameter +2mm to -5mm
- Sheraplex® coated bolt sets

- Can be fabricated in any size, within the design range
- Corrosion resistant construction
- EPDM seals
- Fusion bonded epoxy coating
- Sealing range nominal diameter +2mm to -5mm
- Sheraplex® coated fasteners

- Can be fabricated in any size, within design range
- Corrosion resistant construction
- EPDM seals
- Fusion bonded epoxy coating
- Sealing range nominal diameter +2mm to -5mm
- Sheraplex® coated stud sets

OTHER OPTIONS

- Special sizes manufactured to order
- Stainless steel, A2, A4, fasteners
- Body length options
- Coating thickness
- 2-24 notch / tie bar options
- Special design for PE Pipes
- For PE pipes, Series 05 internal support bush required, See page 19

- Special sizes manufactured to order
- Stainless steel, A2, A4, fasteners
- Body length options
- Coating thickness

- Special sizes / drilling manufactured to order
- Stainless steel, A2, A4, fasteners
- Specific notching requirements
- Slotted bolt holes as standard
- Fast track delivery service
- Body length options
- Coating thickness
- Special design for PE Pipes
- For PE pipes, Series 05 internal support bush required, See page 19

SIZE

DN350 - 1600

DN350 - 1400+

DN350 - 1400+

MAX WORKING PRESSURE

PN16/25

PN16/25

PN16/25

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

Mild Steel
BS EN 10025:1990 grade FE 430 B



FABRICATED NON-TENSILE DEDICATED COUPLINGS AND FLANGE ADAPTORS / PIPE COMPATIBILITY

Series 258 259 260/30



Product Description	Fabricated Dedicated Coupling	Fabricated Stepped Coupling	Fabricated Flange Adaptor
Range	DN350-1600	DN350-1400+	DN40 - 1400+
End Restraint	No	No	No
Pipe Material			
Polyethylene			
PVC	•	•	•
Ductile iron pipe	•	•	•
Cast iron class AB	•	•	•
Cast iron class CD	•	•	•
GRP	•	•	•
Steel pipe	•	•	•
Stainless Steel pipe	•	•	•
Clay	•	•	•
Concrete	•	•	•
Asbestos Cement	•	•	•

DISMANTLING JOINTS FOR ALL PIPE MATERIALS



AVK dismantling joints provide easy installation and disassembly of flanged pipework and equipment and compensate for axial displacement of the pipe during installation and dismantling. The range is available in DN50-2400 in PN10, PN16, PN25, PN 40 and PN 60 or ANSI CL150, CL300, CL600 and CL900.



Dismantling Joints are Strongly recommended to be used after butterfly valves in the line.

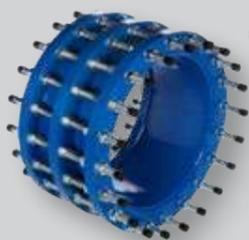
The dismantling joint compensates for axial displacement of the pipe during installation and dismantling, as the telescopic action between the inner and outer flange body allows for longitudinal adjustment.

As with the other AVK fabricated fitting range, the dismantling joints are highly versatile in design where different flange and fastener options are available as well as enhanced coatings.

The standard axial adjustment of ± 60 mm offers a high level of flexibility in the installation and removal

of flanged equipment for either maintenance or replacement. Larger adjustments can be accommodated if required.

The AVK dismantling joints are manufactured from mild steel or carbon steel in DN300-2400 and ductile iron or Carbone Steel in DN50-250. All materials are certified for use with potable water.



With centre flange



PRODUCT SELECTOR

SERIES TYPE	265/30	265/50	265/50
DESCRIPTION	AVK DISMANTLING JOINT	AVK DISMANTLING JOINT	AVK DISMANTLING JOINT
APPLICATION	For flanged pipe work and fittings, and suitable for use with water and	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
MAIN FEATURES AND BENEFITS	<ul style="list-style-type: none"> • +/- 60mm axial adjustment on length • Fusion bonded epoxy coating • EPDM seals • Tie-rods zinc plated and passivated • Sealing range nominal diameter +2mm to -5mm • Sheraplex® coated studs and nuts sets 	<ul style="list-style-type: none"> • Axial adjustment on length • Fusion bonded epoxy coating • EPDM seals • Tie-rods zinc plated and passivated • Tie-rods located on every flange hole • Sheraplex® coated studs and nuts sets 	<ul style="list-style-type: none"> • Axial adjustment on length • Fusion bonded epoxy coating • EPDM seals • Tie-rods zinc plated and passivated • Tie-rods located on every flange hole • Sheraplex® coated studs and nuts sets
OTHER OPTIONS	<ul style="list-style-type: none"> • Any flange drilling within design tolerance • Extended axial adjustment • PN10/PN16/PN25/CL150 version. • No tie-rods • Specific notching requirements • Slotted flanges • NBR seal option • Various face to face lengths • A4 bolts • A2, A4 stainless steel tie-rods 	<ul style="list-style-type: none"> • Any flange drilling within design tolerance • PN10/PN16/CL150 version • Reduced number of tie rods • Non-standard body and adjustment lengths • NBR seal option • Various face to face lengths • A4 bolts • A2, A4 stainless steel tie-rods 	<ul style="list-style-type: none"> • Any flange drilling within design tolerance • PN10/PN16/PN25/CL150 version • Reduced number of tie rods • Non-standard body and adjustment lengths • NBR seal option • Various face to face lengths • A4 bolts • A2, A4 stainless steel tie-rods
SIZE	DN300 - 1200	DN50 - 250	DN300 - 2200
MAX WORKING PRESSURE	PN16	PN16	PN10/16/25
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 430 B	SG Iron BS EN 1563GJS 450/10 Mild Steel to BS EN 10025 FE360B.B430 B	Mild Steel BS EN 10025 FE360B.BB

PRODUCT SELECTOR

SERIES TYPE

970/1204



DESCRIPTION

AVK DISMANTLING JOINT

APPLICATION

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

MAIN FEATURES AND BENEFITS

- axial adjustment on length
- Fusion bonded epoxy coating
- EPDM seals
- Tie-rods zinc plated and passivated

MAIN OPTIONS

- Any flange drilling within design tolerance
- PN10/PN16/PN25/PN40/PN60 CL150, CL 300, CL 600, CL 900 version.
- NBR seal option
- A4 bolts

SIZE

DN50 - 2400

MAX WORKING PRESSURE

PN60

TEMPERATURE RANGE

Max +50°C

BODY MATERIAL

Carbon Steel
ATSM A694 GRD F65



DISMANTLING JOINTS FLANGE CONNECTIONS - DISMANTLING JOINTS / PIPE COMPATIBILITY



Series	265/30	265/50-001	265/50-002	970/1204
Product Description	2 Flange Dismantling Joint	3 Flange Dismantling Joint	3 Flange Dismantling Joint	2 Flange Dismantling Joint
Range	DN300 - 1200	DN50 - 250	DN300 - 2200	DN50 - 2400
End Restraint	No	No	No	No
Flange Drilling	PN10/16/25 CL150	PN10/16/25 CL150	PN10/16/25 CL150	PN10/16/25/40/60 CL150,300,600,900
Pipe Material				
Polyethylene	•	•	•	•
PVC	•	•	•	•
Ductile iron pipe	•	•	•	•
Cast iron class AB	•	•	•	•
Cast iron class CD	•	•	•	•
GRP	•	•	•	•
Steel pipe	•	•	•	•
Stainless Steel pipe	•	•	•	•
Clay	•	•	•	•
Concrete	•	•	•	•
Asbestos Cement	•	•	•	•



REPAIR CLAMPS FOR ALL PIPE MATERIALS



Manufacturing process

Within the AVK group of companies the decision was made to centralize the manufacturing of stainless steel repair clamps at AVK Nederland BV. In the meantime we have realized a complete transformation of our manufacturing hall and AVK Nederland BV is ready for the future.

In our welding department the stainless steel plates and coils are cut and after that provided with the necessary welding parts. Our standard stainless steel repair clamps are equipped with support plate, but other executions are also possible such as fingers or Navewa. The welding robot takes care of a precise welding on the welding parts, but also on the stainless steel plate. After this procedure the clamps will be fully passivated to guarantee optimum corrosion resistance.

The cutting off the rubber (EPDM/NBR) and the exact dimension is being done per order. After cutting, the rubber is provided with double- faced tape. The use of double-faced tape gives advantages during manufacturing, such as better adhesion on stainless steel plate in comparison with glue, environmentally friendly and better labour conditions.

When all parts of the stainless steel repair clamps are lying on the assembling table then the production employee can start assembling the clamp. The internal transport system takes care, that the production employee receives the needed materials per order. After finishing the stainless steel repair clamp an ineradicable label or engraving print with the correct information is put on to the clamp. After this the stainless steel repair clamp is transported through our conveyer system to the logistic department and they make the order ready for dispatch.



LASTING INNOVATIONS NEW DESIGN

Sealing:

The bridge plate / armor plate is vulcanized into the rubber gasket Benefits:

- No loose parts
- Better sealing



Elongated waffled structure rubber lining

Benefits:

- More barriers
- Better circumferential sealing



New Design



Old Design

Hinged repair clamp:

The double band repair clamps are manufactured with a hinge connection Benefit:

- Easy installation



PRODUCT SELECTOR

SERIES TYPE

748/01



748/02



748/03



DESCRIPTION

AVK SINGLE BAND REPAIR CLAMP

AVK DOUBLE BAND REPAIR CLAMP DN50-250

AVK TRIPLE BAND REPAIR CLAMP

APPLICATION

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

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

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

MAIN FEATURES AND BENEFITS

- Passivated - to ensure an optimum corrosion resistance for a longer asset life
- Studs are Teflon coated to prevent cold welding (galling)
- Gasket of NBR rubber with waffle structure and rounded tops
- DN40-350 on single-section clamps. 12mm tolerance
- Studs protected with plastic protection caps

- Passivated - to ensure an optimum corrosion resistance for a longer asset life
- Studs are Teflon coated to prevent cold welding (galling)
- Gasket of NBR rubber with waffle structure and rounded tops
- DN80-600 on double-section clamps. 24 mm tolerance
- Studs protected with plastic protection caps

- Passivated - to ensure an optimum corrosion resistance for a longer asset life
- Studs are Teflon coated to prevent cold welding (galling)
- Gasket of NBR rubber with waffle structure and rounded tops
- DN250-800 on triple-section clamps. 36 mm tolerance
- Studs protected with plastic protection caps

OTHER OPTIONS

- Different lengths: 150, 200, 250, 300, 400, 500 and 600 mm (other lengths on request)
- 16bar for DN40 up to DN150, 10 bar for DN 175 up to DN 300 and 6 bar for DN 350
- SS 316

- Different lengths: 200, 250, 300, 400, 500 and 600 mm (other lengths on request)
- 16bar for DN40 up to DN150, 10 bar for DN 175 up to DN 450 and 6 bar for DN 500
- SS 316

- Different lengths: 300, 400, 500, 600 and 800 mm (other lengths on request)
- 10bar for DN250 up to DN450, 6 bar for DN 500 up to DN 600 and 4 bar for DN 650 and 3 bar from DN 700
- SS 316

SIZE

DN40 - 350

DN80 - 600

DN250 - 950

MAX WORKING PRESSURE

depends on size

depends on size

depends on size

TEMPERATURE RANGE

-40° C up to +100° C

-40° C up to +100° C

-40° C up to +100° C

BODY MATERIAL

Stainless Steel AISI 304

Stainless Steel AISI 304

Stainless Steel AISI 304

REPAIR CLAMPS STAINLESS STEEL REPAIR COLLARS

Series

748/01

748/02

748/03



Product Description	Repair Clamp Single Band	Repair Clamp Double Band	Repair Clamp Triple Band
Range	DN50 - 150	DN80 - 600	DN250 - 800
Pressure Rating	PN10/16/25	PN10/16/25	PN10/16/25
Polyethylene			
PVC	•	•	•
Ductile iron pipe	•	•	•
Cast iron class AB	•	•	•
Cast iron class CD	•	•	•
GRP	•	•	•
Steel pipe	•	•	•
Stainless Steel pipe	•	•	•
Clay	•	•	•
Concrete			
Asbestos Cement	•	•	•



ELEMENTS FOR REPAIR BOX



Repair box, 10 elements

Series 729/4

AVK's repair box is an easy, quick and solid solution for emergency repair of damaged pipes. The stainless steel repair elements can be used for permanent repair of cracks, holes or complete breakages in pipes. The wooden repair box consist of 10 stainless steel elements in standard widths of 11,81/15,75/19,69/23,62 inch – 300/400/500/600 mm

Material : Stainless Steel 304 or 316

Rubber : NBR

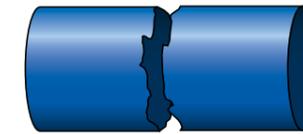
Length elements : 300mm, 400mm, 500mm,600mm.

Element A 320 mm	Element B 380 mm	Element C 440 m	Element D 540 m	Element E 640 m	Element F 300 mm	Element G 350 m	Element H 410 mm	Element I 470 m	Element J 500 m	Total	Range min.	Range max.
					300					300	86	96
320										320	92	102
						350				350	101	111
	380									380	111	121
							410			410	121	131
		440								440	130	140
								470		470	140	150
									500	500	149	159
			540							540	162	172
320					300					620	187	197
				640						640	194	204
	380				300					680	207	227
320	380									700	213	233
320		440								760	232	252
	380	440								820	251	271
320			540							860	264	284
	380		540							920	283	303
320				640						960	296	316
		440	540							980	302	322
	380			640						1020	315	335
		440		640						1080	334	354
320	380	440								1140	353	383
320			540			350				1210	375	405
320	380		540							1240	385	415
320		440	540							1300	404	434
320	380			640						1340	417	447
	380	440	540							1360	423	453
320		440		640						1400	436	466
	380	440		640						1460	455	485
320			540	640						1500	468	498
	380		540	640						1560	487	517
		440	540	640						1620	506	536
320	380	440	540							1680	525	565
320	380	440		640						1780	557	597
320	380		540	640						1880	589	629
	380	440	540	640						2000	627	667
320	380	440		640	300					2080	652	702
320	380		540	640	300					2180	684	734
320	380		540	640			410			2290	719	734
	380	440	540	640			410			2410	758	734
320	380	440		640		350	410			2540	799	859
320			540	640	300		410	470		2680	844	904
		440	540	640		350	410	470	500	2810	885	945
		440	540	640			410	470	500	3000	945	1005
320			540	640	300		410	470	500	3180	1003	1073
	380	440	540	640			410	470	500	3380	1066	1136
	380		540	640	300	350	410	470	500	3590	1133	1213
320	380	440		640	300	350	410	470	500	3810	1203	1293
320	380	440	540	640	300	350	410	470	500	4350	1375	1475

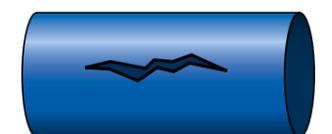
PRODUCT APPLICATIONS



Holes in AC, steel or cast iron pipes



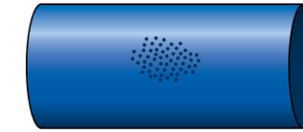
For breaks in AC and cast iron pipes



For cracks in AC, steel, cast iron or PVC pipes



Damage caused by service crane or breaking-off of branching section



For corrosion leaks

FEATURES

- Made entirely of stainless steel, therefore no corrosion.
- Clamp completely passivated after welding operations.
- Extremely lightweight, therefore easy to handle.
- Easy assembling with handgrip on stainless steel repair clamp
- No sharp edges or angles.
- Rubber lining (EPDM / NBR) is water and gas resistant.
- No loose parts that can be lost during assembly.
- No problem with non-round pipes. Clamp assumes form of pipe.
- Teflon coating on threads for smooth operation and to avoid galling
- Angle deflection up to 20° can be accommodated.
- Repairs pipe sections with gaps of up to 25 mm.
- Clamps available in all lengths and diameters.
- Available with threaded branching ranging from 1/2" to 4"
- Available with flange connections ranging from DN 50 till DN 500

Advice length of repair clamp

Length of clamp = A + 2B, but is at least equal to the diameter of the pipe. A = length of crack or hole
 B = minimum 75 mm depending on:
 - length of crack - pressure
 - liquid
 Plastics require 50% more clamp length. Repair is not permanent for PE pipes.

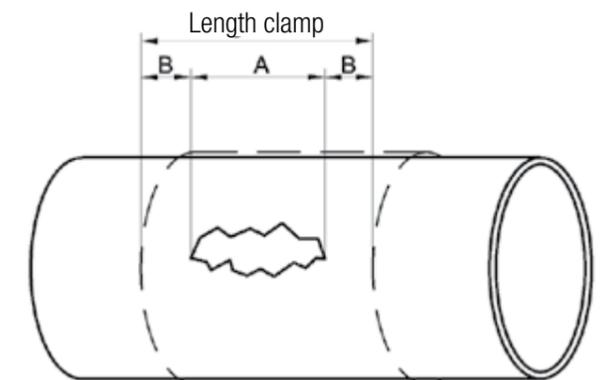


Plate thickness

Varying between 0.6 to 3 mm, depending on diameter and pressure class of pipe.

Repico® COUPLINGS AND REPAIR COUPLINGS



A Repico® pipe coupling (or repair coupling) has several advantages over a traditional connection (repair) method:

A Repico® coupling takes only minutes to install and requires hardly any preparation. Think of how much this will save you. Think of initial material cost, labour cost and being able to finish installation much quicker.

Normal pipe size		
Metric	Imperial	Time per coupling
mm	Inch	min
20	¾	2
25	1	2
32	1 ¼	2
40	1 ½	2
50	2	3
65	2 ½	4
80	3	4
100	4	5
125	5	6
150	6	7
200	8	9
250	10	10
300	12	12
350	14	12
400	16	12
450	18	12
500	20	12
550	22	12
600	24	12

The installation time includes:

- Marking of half the coupling width on both pipe ends
- Fitting the coupling over pipe ends and correct alignment
- Tightening the bolts with a torque wrench

Repico® COUPLINGS AND REPAIR COUPLINGS

- As the installation only requires a torque wrench there is no fire or explosion risk during installation. Less precautions and permits are required which shortens installation times.



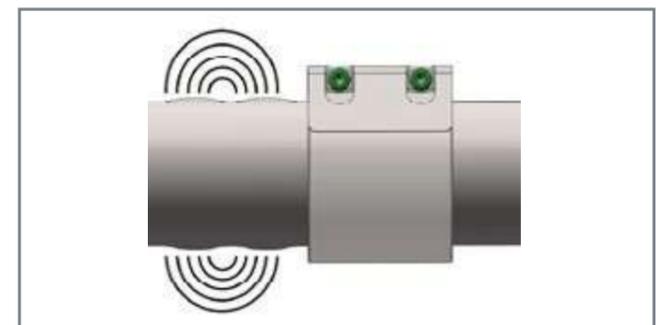
- A Repico® coupling weighs less than half of 2 flanges. Pipe supports can be lighter, transport cost is lower and for some applications the net weight for cargo increases.



- A Repico® coupling is smaller than a flange. You require less storage space, less transportation capacity, less space to install the pipe or get more pipes close together in a smaller space.



- Due to soft sealing materials the Repico® coupling will absorb vibrations, noise and will reduce fatigue fractures in the pipe system. This results in more comfort and less future repairs.



BASIC PRINCIPLES

There are 2 types of couplings which operate on the same basic well proven principal.

- A Repico® grip (axially restraint) type and a slip (axially flexible) type.
- The Repico® grip type restrains the pipe inside the coupling and the slip type that allows the pipe to move within the coupling.
- The Repico® grip type anchors in the pipe wall through grip rings, restraining the axial movement of the pipe in the coupling. Sealing to the pipe wall is done by the rubber sealing material inside the coupling.
- The Repico® slip type seals to the pipe wall by the rubber sealing material, as it has no grip rings the pipes need to be restrained outside the coupling. The expansion will be compensated through the allowable movement within the coupling.
- The Repico® slip/grip type is a combination of the above mentioned types, one side slip, the other side grip.
- The sealing material is encased in the stainless steel body and can be compressed by torquing the bolts. With the grip type this also engages the teeth to “bite” into the pipe wall. By the internal pressure of the media the sealing material is pressed against the pipe wall and the grip ring is pushed outwards increasing their grip on the pipe wall. This is called progressive sealing and anchoring.

Repico® S - Slip type coupling



after tightening

Repico® G - Grip type coupling



after tightening

• Repair couplings

The main difference of a Repico® repair clamp compared to a Repico® coupling is that the rubber seal is not one piece and it has no grip rings. The split seal allows the clamp to be put around the pipe. They have the same progressive sealing as the grip and the slip type. Some low pressure or special version might differ in sealing design.

MATERIAL

Connecting	Metal - Metal	Plastic - Plastic	Metal - Plastic	Restrained/Flexible
Couplings				
Grip type (tensile)	x	x		Restrained
Slip type (flexible, non-tensile)	x	x	x	Flexible
Slip Grip type	x		x	Restrained/Flexible
Repair clamps				
Hinge type	x	x		Flexible
Elbow type	x	x		Flexible
Multi Locks type	x	x		Flexible

Sealing material	EPDM	NBR	FKM	Silicone
Temperature range	-30° C up to +110° C	-25° C up to +80° C	-30° C up to +250° C	-70° C up to +200° C
Resistance	Heat Aging Ozone Acidity 2-11 pH	Abrasion Aging Acidity 2-11 pH	Corrosive media	Heat Weather
Medium suggestions	Drinking water Waste water Compressed air Alcohol and solids Hot water Acids	Water Gas Oil Fuel Hydrocarbon fluids Aliphatic or non aromatics	Ozone Oxygen Acids Gas Oil Fuel	Steam
Standards & Approvals	EN 681-1, E.G., W 270, BS 6920, XP P 41-250, Hydrocheck	EN 681-1, EN 682 XP P 41-250, AS/NZS 4020		

Quality	Housing	Lock bars	Bolts	Anchoring
W4	304	304	304 PTFE	301H
W5	316	316	316 PTFE	301H

FLANGE TABLE

Flange tables	Nominal bore	O/D of Flange		No of Bolts	Dia of Bolts		Dia of Holes		PC Dia of Holes	
		inch	mm		inch	mm	inch	mm	inch	mm
B.S.'D'	2"/50mm	6"	152	4	5/8"	3/4"	19	4.1/2"	113	
B.S.'E'	2"/50mm	6"	152	4	5/8"	3/4"	19	4.1/2"	113	
PN10	2"/50mm	6.1/2"	165	4	M16	3/4"	18	5"	125	
PN16	2"/50mm	6.1/2"	165	4	M16	3/4"	18	5"	125	
ANSI 150	2"/50mm	6"	152	4	5/8"	3/4"	19	4.3/4"	119	
ANSI 300	2"/50mm	6.1/2"	165	8	5/8"	3/4"	19	5"	125	
B.S.'D'	3"/80mm	7.1/4"	184	4	5/8"	3/4"	19	5.3/4"	144	
B.S.'E'	3"/80mm	7.1/4"	184	4	5/8"	3/4"	19	5.3/4"	144	
PN10	3"/80mm	7.7/8"	200	8	M16	3/4"	17	6.1/2"	159	
PN16	3"/80mm	7.7/8"	200	8	M16	3/4"	18	6.1/2"	160	
ANSI 150	3"/80mm	7.1/2"	191	4	5/8"	3/4"	19	6"	150	
ANSI 300	3"/80mm	8.1/4"	210	8	3/4"	7/8"	22	6.5/8"	166	
B.S.'D'	4"/100mm	8.1/2"	216	4	5/8"	3/4"	19	7"	175	
B.S.'E'	4"/100mm	8.1/2"	216	8	5/8"	3/4"	19	7"	175	
PN10	4"/100mm	8.4/5"	220	8	M16	3/4"	17	7"	179	
PN16	4"/100mm	8.4/5"	220	8	M16	3/4"	18	7"	180	
ANSI 150	4"/100mm	9"	229	8	5/8"	3/4"	19	7.1/2"	188	
ANSI 300	4"/100mm	10"	254	8	3/4"	7/8"	22	7.7/8"	197	
B.S.'D'	6"/150mm	11"	280	8	5/8"	3/4"	19	9.1/4"	231	
B.S.'E'	6"/150mm	11"	280	8	3/4"	7/8"	22	9.1/4"	231	
PN10	6"/150mm	11.2/5"	285	8	M20	7/8"	21	9.1/2"	239	
PN16	6"/150mm	11.2/5"	285	8	M20	7/8"	22	9.1/2"	240	
ANSI 150	6"/150mm	11"	279	8	3/4"	7/8"	22	9.1/2"	238	
ANSI 300	6"/150mm	12.1/2"	318	12	3/4"	7/8"	22	10.5/8"	266	
B.S.'D'	8"/200mm	13.1/4"	336	8	5/8"	3/4"	20	11.1/2"	288	
B.S.'E'	8"/200mm	13.1/4"	336	8	3/4"	7/8"	22	11.1/2"	288	
PN 10	8"/200mm	13.3/5"	340	8	M20	7/8"	21	11.1/2"	294	
PN16	8"/200mm	13.3/5"	340	12	M20	7/8"	22	11.1/2"	295	
ANSI 150	8"/200mm	13.1/2"	343	8	3/4"	7/8"	22	13.1/2"	338	
ANSI 300	8"/200mm	15"	381	12	7/8"	1"	25	15"	375	
B.S.'D'	10"/250mm	16"	406	8	3/4"	7/8"	22	14	350	
B.S.'E'	10"/250mm	16"	406	12	3/4"	7/8"	22	14	350	
PN 10	10"/250mm		395	12	M20	7/8"	22	14	350	
PN16	10"/250mm	16.1/5"	405	12	M24	1"	26	14.1/4"	355	
ANSI 150	10"/250mm	16"	406	12	7/8"	1.1/8"	25	14.1/4"	361	
ANSI 300	10"/250mm	17.1/2"	445	16	1"	1.1/8"	28	15.1/4"	381	
B.S.'D'	12"/300mm	18"	457	12	3/4"	7/8"	25	16"	400	
B.S.'E'	12"/300mm	18"	457	12	7/8"	1"	26	16"	400	
PN 10	12"/300mm		445	12	M20	7/8"	22	16"	400	
PN16	12"/300mm	18.2/5"	460	12	M24	1"	26	16.1/2"	410	
ANSI 150	12"/300mm	19"	483	12	3/4"	1"	25	17"	425	
ANSI 300	12"/300mm	20.1/2"	521	16	1.1/8"	1.1/4"	31	17.3/4"	444	
B.S.'D'	14"/350mm	20.3/4"	525	12	7/8"	1"	25	18.1/2"	463	

Flange tables	Nominal bore	O/D of Flange		No of Bolts	Dia of Bolts		Dia of Holes		PC Dia of Holes	
		inch	mm		inch	mm	inch	mm	inch	mm
B.S.'E'	14"/350mm	20.3/4"	525	12	7/8"	1"	25	18.1/2"	463	
PN 10	14"/350mm		505	16	M20	7/8"	22		460	
PN16	14"/350mm	20.1/5"	520	16	M24	1"	26	18.1/2"	470	
ANSI 150	14"/350mm	21"	533	12	1"	1.1/8"	28	18.3/4"	469	
ANSI 300	14"/350mm	23"	584	20	1.1/8"	1.1/4"	31	20.1/4"	506	
B.S.'D'	16"/400mm	22.3/4"	575	12	7/8"	1"	25	20.1/2"	513	
B.S.'E'	16"/400mm	22.3/4"	575	12	7/8"	1"	25	20.1/2"	513	
PN10	16"/400mm		565	16	M24	1"	26	20.1/2"	515	
PN16	16"/400mm	23.1/5"	580	16	M27	1.1/4"	30	21"	525	
ANSI 150	16"/400mm	23.1/2"	597	16	1"	1.1/8"	28	21.1/4"	531	
ANSI 300	16"/400mm	25.1/2"	648	20	1.1/4"	1.3/8"	34	22.1/2"	563	
B.S.'D'	18"/450mm	25.1/4"	610	12	7/8"	1"	25	23"	575	
B.S.'E'	18"/450mm	25.1/4"	610	16	7/8"	1"	25	23"	575	
PN10	18"/450mm	25.1/4"	615	20	M24	1"	26	22.1/2"	565	
PN16	18"/450mm	25.3/5"	640	20	M27	1.1/4"	30	23.1/2"	585	
ANSI 150	18"/450mm	25"	635	16	1.1/8"	1.1/4"	31	22.3/4"	569	
ANSI 300	18"/450mm	28"	711	24	1.1/4"	1.3/8"	34	24.3/4"	619	
B.S.'D'	20"/500mm	27.3/4"	705	16	7/8"	1"	25	25.1/4"	631	
B.S.'E'	20"/500mm	27.3/4"	705	16	7/8"	1"	25	25.1/4"	631	
PN10	20"/500mm		670	20	M24	1"	26	24.3/4"	620	
PN16	20"/500mm	28.3/5"	715	20	M30	1.3/8"	33	26"	650	
ANSI 150	20"/500mm	27.1/2"	699	20	1.1/8"	1.1/4"	31	25"	625	
ANSI 300	20"/500mm	30.1/2"	775	24	1.1/4"	1.3/8"	34	27"	675	
B.S.'D'	24"/600mm	32.1/2"	825	16	1"	1.1/8"	28	29.3/4"	744	
B.S.'E'	24"/600mm	32.1/2"	825	16	1.1/8"	1.1/4"	31	29.3/4"	744	
PN 10	24"/600mm		780	20	M27	1.1/4"	30		725	
PN16	24"/600mm		840	20	M33	1.1/2"	36	31"	770	
ANSI 150	24"/600mm	32"	813	20	1.1/4"	1.3/8"	34	29.1/2"	738	
ANSI 300	24"/600mm	36"	914	24	1.1/2"	1.5/8"	41	32"	800	
PN 10	28"/700mm		895	24	M27		30		840	
PN 16	28"/700mm		910	24	M33		36		840	
B.S.'D'	30" /750mm	39.1/4"		20	1.1/8"	1.1/4"		36.1/2"		
B.S.'E'	30" /750mm	39.1/4"		20	1.1/4"	1.1/2"		36.1/5"		
PN10 /PN16	30" /750mm	750mm dia does not exist for PN10 or PN16 standards								
PN 10	32"/800mm		1015	24	M30		33		950	
PN 16	32"/800mm		1025	24	M36		39		950	
PN 10	36"/900mm		1115	28	M30		33		1050	
PN 16	36"/900mm		1125	28	M36		39		1050	
PN 10	40"/1000mm		1230	28	M30		33		1160	
PN 16	40"/1000mm		1255	28	M36		42		1170	
PN 10	48"/1200mm		1455	32	M36		39		1380	
PN 16	48"/1200mm		1485	32	M45		48		1390	

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	12	14
	MM	15	20	25	32	40	50	65	80	90	100	125	150	175	200	225	250	300	350

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

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	326	378
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	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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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	323.9	355.6
	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	323.9	355.5

	406.4	457.2	508		609.6																		
	406.4	457.2	508		558.8	609.6																	

(IMPERIAL CAST IRON) and ASBESTOS CEMENT (TURNED END)	BS1211(1981) (UTI 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	13.14 333.8	15.22 387		
		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	11.26 286.0	13.60 345.4	15.72 399.3		
	BS78 (1981)	NON STD																					
BS486 (1966)						2.25 57		3.25 82.5															

16.26 413	17.30 430	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					
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					

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	323.9	355.6			
		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	323.9	355.6				
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	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												
	406.4	457	508		559	610	660		711	762	813		864	914	1016		1219		1422	1626	1829	2032	
	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

GRP	BS5480														220		272	324	376
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	427	478	530		633		718		820		924	1027		1144	1228	1350	1440	1640	1844	2048
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METRIC ASBESTOS CEMENT (TURNED END)	BS486	CLASS 15													177		232	259	286	334	392	
		CLASS 20																232	259	286	345	405
		CLASS 25						69		96		122		177		240	268	295	356	419		

	448	498	568		654		761	808	882		927	970										
	463	515	586		672		780	830	904		952	996										
	478	532	605		691		801	852	915		977	1024										

ABS	BS5391																						
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uPVC & POLYETHYLENE (METRIC) BS5556 (ISO/161/1)	METRIC uPVC & PE HAVE A DESIGNATED NOMINAL BORE WHICH IS USUALLY																						
	16	20	25	32	40	50	63	75	90	110	125	140	160	180									

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



Providing products & support to the customers directly when they are needed within **24 HOURS, 7 DAYS A WEEK.**

The service includes **Express Service Centres & Leakage Repair Service.**

The main aim of AVK's Express Service is to handle the clients' daily requirements and solve their urgent issues by providing them with the needed products and support especially when a pipe leakage, pipe breakage or valve damage occurs.

LEAKAGE REPAIR SERVICE is a well-equipped fleet of vans with products and tools to repair pipes of up to DN 1200 and to perform general service on its products that operate 24/7.

With these vans, AVK will be able to provide the necessary requirements to any location in the Kingdom, even in very far away areas and villages.

The initiative has been very well received by the local water authorities who appreciate the service and fast response from AVK. It also means that AVK SVMC can attend service on site within a few hours with skilled and competent employees, not only for leakage repair but also control valve (series 859) settings, actuator issues etc.

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ADDITIONAL PRODUCTS PRODUCT SELECTOR GUIDE



SERIES 75/10-004 EVS
AVK Wafer Concentric Butterfly Valve, Vulcanized Liner
DN50-1400
PN6/10/16
Various Materials
BS EN 593
EN 558 Series 20



SERIES 75/20-004 EVFS
AVK Short Double Flanged Concentric Butterfly Valve, Vulcanized Liner
DN50-2000
PN10/16/25
Various Materials
BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 13



SERIES 75/21-004 EVFL
AVK Long Double Flanged Concentric BV, Vulcanized Liner
DN50-1000
PN10/16
Various Materials
BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 14



SERIES 75/EVTLs
AVK Lugged Concentric Butterfly Valve Vulcanized Liner
DN50-1200
PN10/16
Various Materials
BS EN 593
EN 558 Series 20



SERIES 75/EVBS
AVK Wafer Type Centering Lugs, Long Neck Valve, Vulcanized Liner
DN50-300
PN10/16
Various Materials
BS EN 593
EN 558 Series 20



SERIES 75/EVUS
AVK Resilient Seat Gate Valve Prepared for Actuator
DN600-2400
PN10/16
Ductile Iron
BS EN 593
BS EN 1094-2
EN 558 Table 2 Basic Series 14



SERIES 756/106-019
AVK Double Eccentric Butterfly Valve with Gearbox and Handwheel
DN200-600
PN6/10/16
Ductile Iron
BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 14



SERIES 756/106-00X
AVK Double Eccentric Butterfly Valve with Gearbox and Handwheel
DN700-2800
PN10/16
Ductile Iron BS EN 593
BS EN 1092 (ISO 7005-2)
EN 558 Series 14



SERIES 756/1-005
AVK Double Eccentric Butterfly Valve with Gearbox and Handwheel
DN200-1200
PN25
Ductile Iron BS EN 593
BS EN 1092-2 (ISO 7005-2)
EN 558 Series 14



AVK HP Butterfly Valves
High performance Double Eccentric Butterfly Valves
Flanged Type: DN50 (2") -1800 (72")
Lug Type: DN50 (2") -700 (28")
Wafer Type: DN50 (2") -700 (28")
PN10/16/25
Class# 150/300
Carbon steel / DI
AWWA 504 / API 609B / ISO 5752

ADDITIONAL PRODUCTS PRODUCT SELECTOR GUIDE



SERIES 01/70
AVK Resilient Seat Gate Valve with
SupaPlus Socket Connections
DN80-300
PN16
Ductile Iron
BS EN 1074-1&2



SERIES 06/30-034 - SERIES 06/34-00X
AVK Resilient Seat Gate Valve
DN40-1000
PN10/16
Ductile Iron
BS EN 1074-1&2
BS EN 1094-2
EN 558 Table 2 Basic Series 14
Stainless steel stem



AUTOMATIC CONTROL VALVE
Pressure, Flow, and Level Management
DN50-1200
PN10/16/25
Ductile Iron
BS EN 1074-5
BS EN 1092-2 (ISO 7005-2)



SERIES 872/00-00X
Needles Valve
DN80-1600
PN16/25/40/64
Ductile iron
NBR/EPDM Rubber
BS EN 1092-2 (ISO 7005-2)
EN 558
EN1074-5



SERIES 15/42-0035 - SERIES 15/43-0035
AVK Resilient Seat Gate Valve Prepared for
Actuator
DN40-400
PN10/16
Ductile Iron
BS EN 1074-1&2
BS EN 1094-2
EN 558 Table 2 Basic Series 14
Stainless steel stem



SERIES 55/30 -005- SERIES 55/34-005
AVK Resilient Seat Gate Valve
DN450-1000
PN10/16
Ductile Iron
BS EN 1074-1&2
BS EN 1094-2
EN 558 Table 2 Basic Series 15 Available
with DN 80 gate valve by-pass
Stainless steel stem



SERIES 41/20-003
Resilient Seat Swing Check
Valve
DN50-300
PN16
Ductile Iron
BS EN 1074-3
BS EN 1092-2 (ISO 7005-2)
EN 558-1 Series 10



**SERIES 641/01-004 & SERIES
641/02**
Metal Seat Swing Check Valve
DN700-1000
PN10/16
Ductile Iron
BS EN 1092-2



SERIES 641/2X
Non-Slam/Recoil Check Valve
DN600-1600
PN10/16/25
Ductile Iron
BS EN 1092-2



SERIES 970/ACMO
Tilting Check Valve with Lever
& Weight
DN150-1600
PN10/16/25
Ductile Iron
BS EN 1074-3
BS EN 1092-2
EN 558 Series 14

ADDITIONAL PRODUCTS PRODUCT SELECTOR GUIDE



SERIES 910/21
AVK Y-STRAINER
DN50-300
PN16
Ductile Iron
BS
EN 1092-2



SERIES 712/0110
BEND 11.25°
DN40-600
PN10/16
Ductile Iron
EN 545
EN 1092-2



SERIES 712/0410
BEND 45°
DN40-600
PN10/16
Ductile Iron
EN 545
EN 1092-2



SERIES 712/0610
BEND 90°
DN40-600
PN10/16
Ductile Iron
EN 545
EN 1092-2



SERIES 712/1010
Flanged Tee
DN40-600
PN10/16
Ductile Iron
EN 545
EN 1092-2



SERIES 712/2210
Flanged Reducer
DN40-600
PN10/16
Ductile Iron
EN 545
EN 1092-2



SERIES 8055
AVK Water Box
1/2", 3/4", 1", 1 1/4"
Polypropylene
Customer logo
optional



SERIES 1110
Polypropylene Tensile
Fittings
EPDM
Seals Mechanical operation
Ø20-63
PN16
WIS 4-32-117005-2)



SERIES 12XX
Electrofusion Fittings
4.7 mm Pin
Ø20-63
PN16



SERIES 730
AVK Universal Tapping
Saddle
DN50-300
Ductile Iron
EPDM Rubber



SERIES 04
AVK Extension Spindle
For gate valves and
service connection
valves PVC
Bottom cover HDPE
Length 500 – 3000 mm



SERIES 08/32
AVK Synthetic Surface
Box
330 to 430mm height
adjustable in Arabic
and English



SERIES 08
AVK Handwheel for
Gate Valves
DN50-600

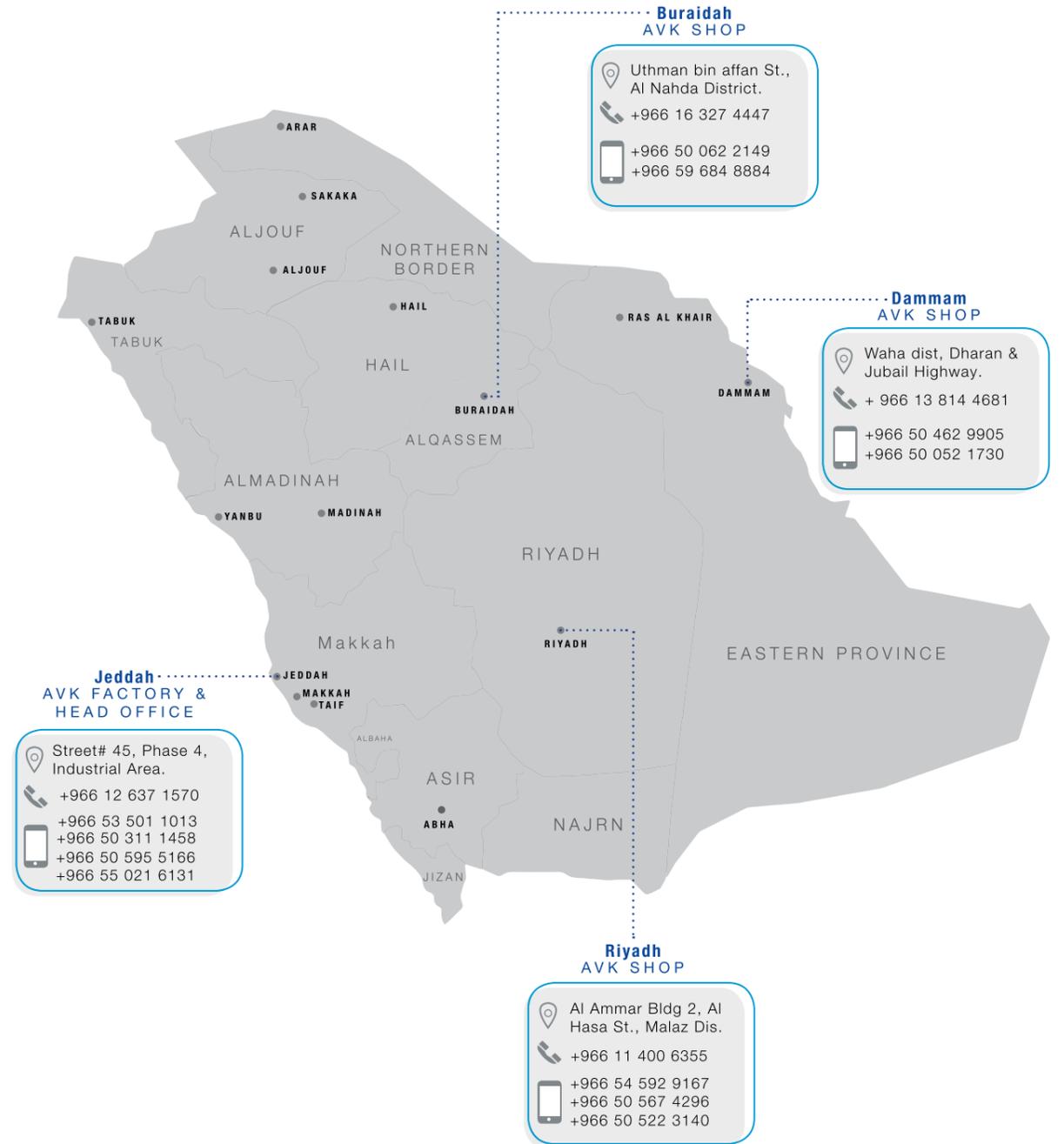


SERIES 04/22
AVK Stem Cap for
Series 21, 37, 55 and
54 Gate Valves
DN50-600
BS 5163-2



SERIES 10
Tapping saddle
For PVC, PE, and
Ductile Iron
DN50-300
Lower part in Stainless
Steel from DN250 and

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We highly recommend that any person using this data for practical purposes should have specialist training and expertise in the application of these products and knowledge of their installation and operating conditions. If any assistance is required, please consult with a member of AVK team.

