



## AVK CLAMPS & TAPPING SADDLES INSTALLATION, OPERATION & MAINTENANCE MANUAL

### Instruction for use

Thank you for selecting an AVK product. With correct use, the product is guaranteed to deliver a long and reliable service. This manual has been prepared to assist you with the installation, operation and maintenance of the valve to the maximum efficiency. For ease of reference, it has been divided into sections covering all aspects of use, and it is in the users best interests to read it and ensure that it is fully understood.

### Health and Safety

It is always recommended that wherever work is being carried out on a valve that the valve is fully depressurised prior to carrying it out, and for the convenience draining of the line may be beneficial.

It is essential that the user of the valve is aware of the weight of the components and/or assemblies that must be handled and manipulated during installation and maintenance. It is the users responsibility to ensure that safe working practices are followed at all times.

Whenever AVK products are installed, operated, or maintained, it is essential that the staff that undertake these operations be adequately trained. The hazards of pressurised liquids and gases can be severe, and it is the responsibility of the users to ensure that trained, competent staff undertake these duties. This manual has been designed to assist, but it can never fully replace quality training in the workplace. AVK technical staff will always be available to answer any questions relating to specific problems that may not be covered by this manual.

AVK products are designed and manufactured to be fit for purpose, and to a high and reliable standard. This provides a safe product with minimum risk to health when used correctly for the purpose for which it was designed. However, this assumes that the equipment is used and maintained in accordance with the manual, and the user is advised to study this manual, and to make it available to all staff that may need to refer to it.

AVK cannot be held responsible for any incidents arising from incorrect installation, operation or maintenance. The responsibility for this must rest wholly with the user.

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## Generic Instructions

To be read in conjunction with 'Type Specific Installation Information' pp. 3. Please read ALL information in this guide prior to installation.

### Recommended Equipment:

- Tension Wrench (0-150Nm) & 24mm long thread socket
- Pipe surface cleaning equipment
- Clamp & pipe lubricant (supplied) or other lubricant approved for use with potable water



**Repair Clamps**



**Kwik Clamps**



**Tapped Offtake Clamps**



**Flanged Offtake Clamps**



**HDPE Clamps**









**Sewer OB  
Junction Clamps**



**Tapping Saddles**

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CLAMP TYPE	STEP	Type Specific Installation Information
	4 & 5	First slide the cartridge gasket out of the clamp and open it at the split running along its length. Disengage the bolt head from the lug and install the clamp assembly around the cartridge gasket before tightening. Then comply with Step 6 – Generic Instructions
	NA	Follow Generic Instructions
	6	If the pipe offtake opening is to be pre-tapped, ensure that the clamp's tapping offtake sits concentric to the pipe opening. Then comply with Step 6 – Generic Instructions
	6	If the pipe offtake opening is to be pre-tapped, ensure that the size of the tapped opening permits the gasket 'Sealing Ring' to be firmly in contact with the pipe surface. Then comply with Step 6 – Generic Instructions
	6	Limit the rotation of the clamp on the pipe to a minimum so as to avoid dislodging the Clamps gasket 'Sealing Ring' around the offtake. Then comply with Step 6 – Generic Instructions
	6	Ensure that the lip of the offtake sits within the pipe opening and not against the pipe surface. Then comply with Step 6 – Generic Instructions

**IMPORTANT - PLEASE READ PRIOR TO INSTALLATION**

AVK Clamps DO NOT provide axial pipe restraint. Therefore if used above ground or in a non back-filled trench, ensure that BOTH the clamp and pipe are axially restrained by external means. Repair Clamps are NOT intended to be used as pipe joiners or where circumferential crack separation has occurred. The product cannot be guaranteed in such applications. Prior to use of any AVK clamp on 'O'PVC pipe. For HDPE pipe application, ensure that HDPE specific clamps are used. Nitrile rubber gaskets are only recommended for use in temperatures ranging from -10° to 60°C. Corrosive environments, including soils with a Chloride content in excess of 1000ppm, can have a detrimental effect on Stainless Steel. Where a product is intended for use in such environments, additional advice should be sought from AVK prior to installation. It is recommended that periodic assessment and maintenance of the clamp be undertaken in such environments.

Please contact AVK in order to assess the suitability of product application and for any special installation instructions.

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## Initial Preparation

Clean the pipe surface, making sure it is as clean and free of soil, mud and scale as possible in order to enable the clamp gasket to successfully seal against the pipe surface.

### 1. Reference Marks

Hold the clamp against the pipe and draw left and right clamp end locator marks on the pipe.

### 2. Opening the Clamp

Loosen the nuts to the end of the studs but DO NOT remove nuts or the locking plate. Spread open the clamp but do not flatten or crease the metal band(s).

### 3. Lubrication

Use the supplied pipe lubricant sachet or an approved pipe joining lubricant to lubricate the clamp gasket and pipe surface.

### 4. Wrapping the Clamp

Wrap the clamp around the pipe surface, ensuring that the gaskets and studs remain as clean and free of soil and mud as possible.

### 5. Assembly

Assemble the clamp around the pipe by bringing the locking plate over the alignment lugs and hand tightening the nuts to hold it in place (see diagram below). Check that the edges of the clamp are within the locator marks (Step 1) and that the gasket mat is wrapped smoothly around the pipe without any twists or ripples.



### 6. Re-tension & Final Check

Once satisfied with the location of the clamp on the pipe, use a tension wrench to incrementally tighten the studs, in sequence (see diagram below), to the recommended tension specified on the clamp. ALWAYS RE-TENSION STUDS after 20 to 30 minutes in order to compensate for loss in initial tension due to rubber gasket relaxation. Finally replace the blue thread protectors.

