



AVK SUPA-GIB COUPLINGS 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

Please read ALL information in this guide prior to installation. Supa-Gib Couplings DO NOT provide axial pipe restraint, therefore if used above ground or in a non back-filled trench, ensure that BOTH the coupling and pipes are axially restrained by external means. AVK Supa-Gib Couplings are NOT suitable for use on HDPE pipe. Prior to use of any Supa-Gib Coupling on 'O'PVC pipe, please contact AVK to assess the suitability of the product application and for any special installation instructions. nitrile rubber seals are only recommended for use in temperature applications between -10°C and 60°C. Corrosive environments, including soils with a chloride content in excess of 1000ppm, can have a detrimental effect on 316 Stainless Steel. Where products are 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 coupling be undertaken in such environments.

Recommended Equipment:

- Tension Wrench (0-150Nm) & 24mm long thread socket
- Pipe surface cleaning equipment
- Gasket lubricant approved for use with potable water (required if factory applied lubricant has dried up due to prolonged storage)



Straight Coupling

Step Coupling



Flange Adaptor



Blank End

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Initial Preparation

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

1. Reference Marks

Align the pipes to be joined, ensuring the pipe ends are concentric and the 'Recommended Pipe Gaps' (indicated below) are applied. Hold the coupling centrally across the aligned pipes and draw left and right coupling end locator marks on the pipe.

COUPLING	MINIMUM GAP mm	MAXIMUM GAP mm
601-5-0059 to 601-5-0202	12	15
601-5-0238 to 601-5-0296	15	30
601-5-0334 to 601-5-0554	15	80
601-5-0566 +	25	80

2. Loosening the Coupling

Loosen the nuts sufficiently to the point where the coupling components are all slack and unrestricted. There is generally no need to dismantle the coupling prior to installation.

3. Lubrication

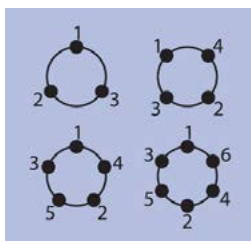
If the gaskets appear dry and or adhere to the end flanges or barrel, disassemble and lubricate all surfaces of the gasket with the approved lubricant as required.

4. Insertion

Slide the loosely assembled coupling all the way up one of the pipes (generally the pre-installed pipe). Bring the other pipe (generally the new section of pipe being joined) into place, maintaining the 'Recommended Pipe Gaps' and concentricity between pipe ends. Slide the coupling down over the second pipe to a central position by matching the coupling ends to the locator marks on each pipe (Step 1). Ensure the gasket is centrally housed in the flange ring.

5. Tightening

Tighten the nuts in small increments in a diametric sequence as shown in the diagram below. Ensure that the coupling barrel and flanges are kept centered around the pipe. Be also mindful of the central location of the coupling in relation to the locator marks (Step 1). Rattle guns should be used in accordance with council specifications



6. Re-tension & Final Check

For the final stage of the installation, tighten the bolts to the recommended tension specified in the table below (and on the barrels of Stainless Steel Supa-Gibs) using a Tension Wrench. ALWAYS RETENSION STUDS after 20 to 30 minutes in order to compensate the loss in initial tension due to rubber gasket relaxation.

COUPLING	'O'PVC Pipe (Nm)	All Other Pipe (Nm)
601-5-0059 to 601-5-0084	40	50
601-5-0103 to 601-5-0147	40	70
601-5-0182 to 601-5-0296	60	70
601-5-0310 +	70	80