

WANG

Vari-Gib Coupling

INSTALLATION GUIDE

Please read ALL information on both sides of this guide prior to installation.

Recommended Equipment

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

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

- 1 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

Recommended Pipe Gaps

Coupling	Minimum Gap mm	Maximum Gap mm
KV0047 to KV0178	12	15
KV0214 to KV0272	15	30
KV0310 to KV0530	15	80
KV0542 +	25	80

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

- 3 Slide the loosely assembled coupling all the way up one of the pipes (generally the preinstalled 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)

Note. When joining two pipes of varying outer diameter (OD), position the coupling end with the nuts to lie on the side of the smallest pipe OD. Where one pipe wall is smoother or the pipe OD smaller than the other, a greater offset allowance might have to be made towards that side to compensate for that end of the coupling retracting more than the other

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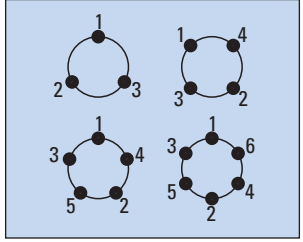
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4 Tighten the nuts in small increments in a diametric sequence (see adjacent diagram), ensuring that the coupling barrel and flanges are kept centred around the pipe. Be also mindful of the central location of the coupling in relation to the locator marks (step 1)



5 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 Vari-Gibs) using a Tension Wrench. **ALWAYS RETENSION STUDS after 20 to 30 minutes** in order to compensate for loss in initial tension due to rubber gasket relaxation

Recommended Tensions

Coupling	'O'PVC Pipe Nm	All Other Pipe Nm
KV0047 to KV0072	40	40 - 50
KV0088 to KV0123	40	60 - 70
KV0158 to KV0272	60	60 - 70
KV0310 +	70	70 - 80

IMPORTANT – PLEASE READ PRIOR TO INSTALLATION

- WANG Vari-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
- WANG Vari-Gib Couplings are NOT suitable for use on HDPE pipe
- Prior to use of any WANG Vari-Gib Coupling on 'O'PVC pipe, please contact WANG Components to assess the suitability of product application and for any special installation instructions
- Nitrile rubber gaskets are only recommended for use in temperatures ranging from 0° to 60°C
- Corrosive environments, eg soils with a Chloride content in excess of 1000ppm, can have a detrimental effect on Stainless Steel. Where product is intended for use in such environments, additional advice should be sought from WANG Components prior to installation. It is recommended that periodic assessment and maintenance of the coupling be undertaken in such environments

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