DEKS INDUSTRIES
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Installation Guide:
Gibaults Stainless Steel

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Installation Instructions

RECOMMENDED EQUIPMENT

- Tension/Torque Wrench (0 – 150Nm) & 24mm long thread socket

SURFACE PREPARATION

- Pipe condition: Ensure the pipe ends are round, smooth and free from any bulges and dents that could interfere with the coupling's fit.
- Cleaning: Thoroughly clean the surface of the pipe to remove any soil or debris, or contaminants. This ensures the gasket can form a successful seal against the pipe surface.
- Weld beams: For pipes with weld beams, ensure the beams are ground flush to avoid any disruptions to the gasket sealing process.

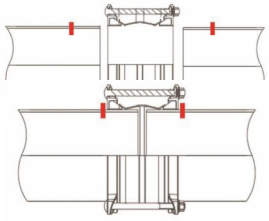
INSTALLATION

- Align the pipes to be joined, ensuring that the ends are concentric to achieve proper fit and seal. Maintain the recommended pipe gaps as outlined in the specifications below:

Recommended Pipe Gap

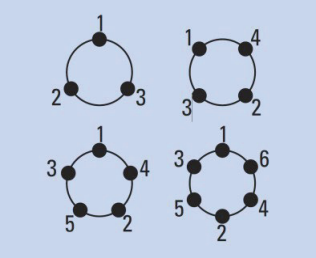
Coupling	Min mm	Max mm
Short Series		
DGB80BS	10	20
DGB100BS	15	25
DGB150BS	15	30
Long Series		
DGB80BL	10	40
DGB100-DGB250BL	15	50
DGB300-DGB450BL	15	80
DGB500BL	20	80
DGB600BL	25	80

- To facilitate installation, mark both pipe ends at a distance equal to half the total assembled width of the coupling. These marks will serve as reference points to ensure correct alignment and positioning of the coupling during the installation process.
- Refer to the provided illustration for visual guidance on marking placement and alignment.
- Loosen the nuts sufficiently to allow all components of the coupling to become slack and unrestrained. This ensures ease of movement and proper alignment during the installation process.



Installation Instructions

- Using the markings previously made on the pipes, slide the coupling onto the fixed pipe end. If necessary, lubricate the surfaces of the sealing ring with an appropriate water mark approved lubricant to facilitate installation.
- Slide the free pipe end into the coupling. Ensure that the markings on both pipe ends align with the edges of the coupling to confirm proper placement.
- Gradually tighten the nuts in small, incremental steps. Follow a diametrical sequence, as shown in the below illustration, to apply uniform pressure and achieve a secure seal.
- Ensure the barrel and end rings remain centered around the pipe during installation for optimal alignment and performance. Use a torque wrench to evenly torque all bolts, adhering to the values specified in the provided table. Retighten all bolts after 20 to 30 minutes. This step compensates for any relaxation of the rubber sealing ring, ensuring long-term reliability and a secure connection.



Recommended Torque

Coupling	'O'PVC Pipe Nm	All Other Pipe Nm
DGB50 to DGB65	40	40 - 50
DGB80 to DGB100	40	60 - 70
DGB150 to DGB250	60	60 - 70
DGB300 and above	70	70 - 80

IMPORTANT NOTES

- Compatibility: DEKS Gibaults are not suitable for HDPE pipes.
- Axial Restraint: The coupling does not provide axial pipe restraint. This must be achieved through other means for both the coupling and the pipes.
- External Loading: Be aware that external loads, such as the weight of pipelines, spool pieces, or backfill, can negatively affect the performance of the coupling. To prevent issues, ensure all pipes are independently supported on each side of the coupling.
- Temperature Range: Rubber sealing rings are designed for use within a temperature range of 0°C to 40°C.
- Fastener Replacement: If the fitting must be repositioned, it is recommended to replace all stainless-steel fasteners to maintain optimal performance and reliability.

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Version 2.0