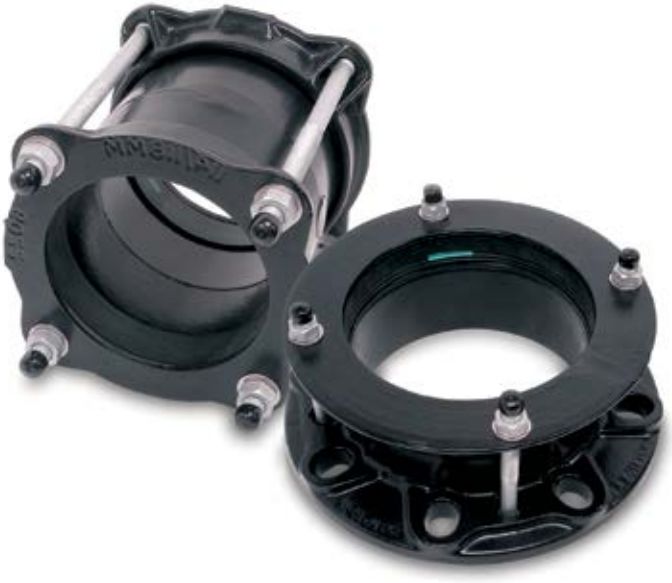
Simple

QuickFit

Couplings & Flange Adaptors



Helden®

INSTALLATION INSTRUCTIONS – GB

PIPE CONNECTIONS • REPAIR • FLOW CONTROL PRODUCTS

CRANE BUILDING SERVICES & UTILITIES

QuickFit Couplings

These instructions are for QuickFit couplings (DN50 to DN300) that are supplied ready assembled and should not be dismantled. If the couplings are supplied unassembled then the user is to use the instructions for Large Diameter Couplings

1. Examine the pipe ends and ensure they are round, smooth, free from bulges, dents and score marks and within the specified tolerances for that material, e.g. for steel - BS534:1990:Section 14. Weld beads must be ground flush, maintaining correct surface profile. Ensure that pipe ends are free from scale, rust, or any loose debris or other surface defects that may affect coupling performance.
2. Check grade of gasket is suitable for conveyed medium.
3. Align pipe to be laid with pipe already in position, taking care that pipe ends are concentric, adjusting support or trench bed as necessary.
4. To aid installation, mark both pipe ends at a distance equal to or greater than half the overall assembled width of the coupling. Lubricate the accessible gasket faces with Helden Lubricant. Remove locating plug from sleeve (if lifted). Place coupling wholly on one pipe end.
5. Adjust setting gap between pipe ends as necessary (see setting gap table). Where locating plugs are used, setting gap should be increased by 10mm (3/8"). If in doubt contact Helden Technical Support.
6. Using marks made at step 4, slide the coupling to a central position over the pipe ends, re-inserting locating plug (if needed) and commence bolt-up.
7. Tighten diametrically opposed bolts giving the nuts one or two turns at a time to draw up the end rings evenly. The bolts must be thoroughly tightened to the figures given below, working around the coupling as many times as necessary. On completion, radial gap between pipe and coupling should be even all the way round. Rubber may be seen to extrude into the gap.
8. Ensure that the 'O' ring of the location plug (if lifted) is lubricated and seated correctly before final tightening of plug.

Bolt Torque Table

Bolt Size	Torque	
	lbf.ft	Nm
M12	40 - 50	55 - 65
M16	70 - 90	95 - 120

Setting Gap Table

Typical Pipe Diameter Range	Recommended Setting Gap	
	mm	inches
Sizes u.t.i. 50mm (2")	14	½
Sizes 65mm (2½") u.t.i. 300mm (12")	19	¾

Notes:

A. Standard Helden Couplings **DO NOT PREVENT PIPE PULL OUT**. The user must ensure adequate external restraint to the pipework is provided. This is essential.

B. When installing Helden Couplings on GRP pipe and certain AC pipes a reduced bolt torque is required - contact the Helden Technical Support for further advice.

QuickFit Flange Adapters

These instructions are for QuickFit Flange adaptors (DN50 to DN300) that are supplied ready assembled and should not be dismantled. If the flange adaptors are supplied unassembled then the user is to use the instructions for Large Diameter Flange Adaptors.

1. Examine the pipe ends and ensure they are round, smooth, free from bulges, dents and score marks and within the specified tolerances for that material, e.g. for steel - BS534:1990:Section 14. Weld beads must be ground flush, maintaining correct surface profile. Ensure that pipe ends are free from scale, rust, or any loose debris or other surface defects that may affect coupling performance.
2. Check grade of gasket is suitable for conveyed medium.
3. If the flange adapter has 'T' bolts between the main flange body and end ring ensure that their heads are correctly located in the recesses in the back of the flange face.
4. Place the flange adapter onto pipe end. Adjust the setting gap between pipe end and mating flange as necessary (see setting gap table). If in doubt contact the Helden Technical Support. Ensure that the pipe end is concentric with the bore of the mating flange.
5. Fit flange gasket (Helden Recommend the use of an IBC gasket) and ensure it is concentric with flange connecting bolts. Bolt the flange adapter to the mating flange using standard bolting procedures.
6. Tighten diametrically opposed 'T' bolts/studs giving the nuts one or two turns at a time to draw up the end ring evenly. The nuts must be thoroughly tightened to achieve the bolt torque figures given below, working around the flange adapter as many times as necessary On completion, radial gap between pipe and flange adapter end ring should be even all the way round. Rubber may be seen to extrude into the gap.

Stud/Bolt Torque Table		
Stud/Bolt Size	Torque	
	lbf.ft	Nm
M12	40 - 50	55 - 65

Setting Gap Table		
Typical Pipe Diameter Range	Setting Gap	
	mm	inches
Sizes DN40 (1½") u.t.i. DN300 (12")	19	¾

Notes:

A. Standard Helden QuickFit Flange Adapters **DO NOT PREVENT PIPE PULL OUT**. Adequate external restraint to pipework is essential.

B. When installing Helden QuickFit Flange Adapters on GRP pipe and certain AC pipes a reduced bolt torque is required - contact the Helden Technical Support for further advice.

bsi. ISO 9001 Quality Management FM 00311
ISO 14001 Environmental Management EMS 553775

YouTube

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