

## TIPS FOR INSTALLATION

1. Ensure the area around the damaged section on the pipe is wiped clean.
2. It is recommended that you apply a reference line/s to the pipe, so as to ensure that the clamp is centred upon installation to the damaged area.
3. When installing on a damaged pipe, assemble the clamp, following correct installation procedures, beside the damage, then while still loose, slide the clamp over the damage, using reference points, then tighten as per tensioning instructions.

## CLAMP FITTING INSTRUCTION

These fitting instructions generally apply to all Derwent Clamps and Couplings, though details shown are the most common Single Part Repair Clamps.

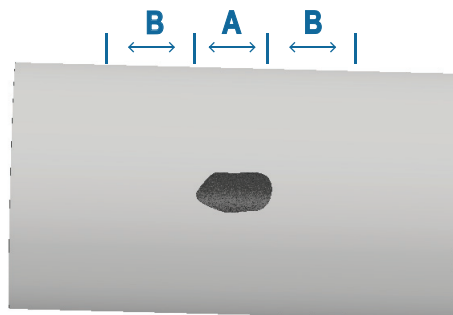
1. Ensure pipe is clean where clamp is to be located.
2. Loosen the nuts to the end of the stud – do not remove.
3. Apply an approved RRJ lubricant to rubber gasket and pipe. (Lubricant swab included).
4. Wrap clamp around pipe ensuring damaged area is in centre of clamp and gasket is flat.
5. Locate locking plate into position with folded edge locked under flat bar, hand tighten nuts to lock mechanism into position.
6. Evenly tighten nuts to required tension as printed on the clamp.
7. Re-tension after 15 minutes minimum to counter gasket rubber relaxation.

## SELECTION OF CLAMP LENGTH

When selecting the clamp length required for the pipe repair, the installer needs to ensure that they have sufficient space at either end of the area to be repaired to the edge of the clamp.

The following table provides a guide to what we recommend as the minimum sealing dimension from edge of area to be repaired to edge of clamp, represented as “B” in the following diagram, whilst the length of the area to be repaired is shown as “A”. Therefore to select the correct length of clamp:

$$A + 2B = \text{Minimum recommended clamp length}$$



Pipe Nominal Diameter	Minimum “B” Length (Distance from edge of damage to edge of clamp)
40 - 80mm	50mm
100 - 200mm	75mm
200 - 300mm	100mm
400 - 650mm	150mm

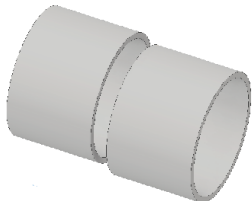
Note: It is recommended that the Clamp Length selected should not be less than the Nominal Pipe Diameter when installed on pipe diameter sizes upto 400mm.



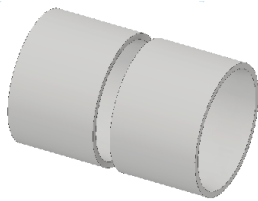
## PIPE DAMAGE

Types of pipe damage that maybe encountered that a clamp can solve.

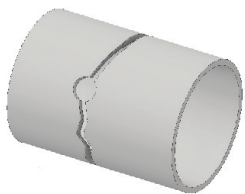
(Note: Any repairs undertaken, must be in accordance with Water Authority guidelines)



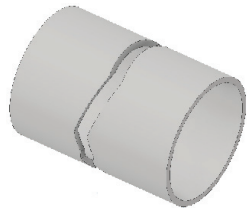
**Deflection**



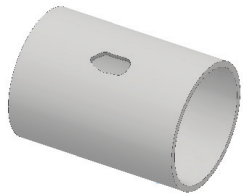
**Plain End**



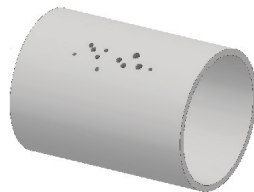
**Full Break at Service**



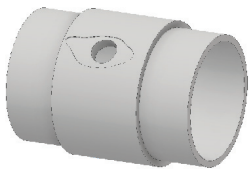
**Full Break**



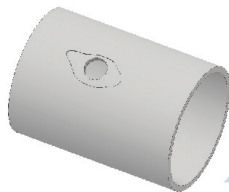
**Hole**



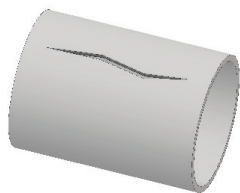
**Pin Holes**



**Pulled Branch**



**Pulled Service**



**Split**

## PRESSURE RATING

The range of products manufactured by Derwent, covers both pressure and non-pressure applications  
Pressure (Unless otherwise specified):

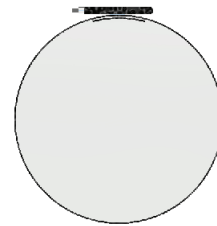
1. Clamps NB 80 - 600mm  
- 1.6 Mpa, PN 16

For further information regarding pressure or temperature, please contact our technical staff for these products.

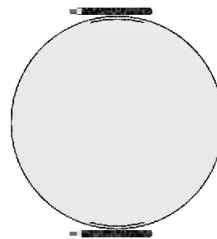
## CORRECT CLAMP STYLE & SIZE

There are a number of factors to be considered in selecting the correct clamp size and type for the pipe that requires repair.

1. Clamp Length
2. Pipe Diameter
3. Pipe Operating Pressure
4. Number of Clamp Parts  
(See below illustrations)



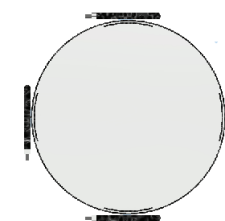
**Single Part Clamps**



**Double 2 Part Clamps**



**Multi 3 Part Clamps**



**Multi 4 Part Clamps**