

Lateral Displacement

Lateral displacement between two pipes to be joined cannot be accommodated by a single coupling. Two couplings must be used, and a small centre piece of pipe may be allowed to articulate the take up displacement.

Method of calculating length of the centre pipe.

Table 3

PIPE NOMINAL DIAMETER (mm)	MINIMUM LENGTH (mm)
≤457mm OD	Displacement Y x 10
>457mm up to & including 610mm OD	Displacement Y x 12
>610mm up to & including 762mm OD	Displacement Y x 15
>762mm up to & including 1219mm OD	Displacement Y x 20
>1219mm up to & including 1829mm OD	Displacement Y x 30
>1829mm OD	Displacement Y x 60

EXAMPLE

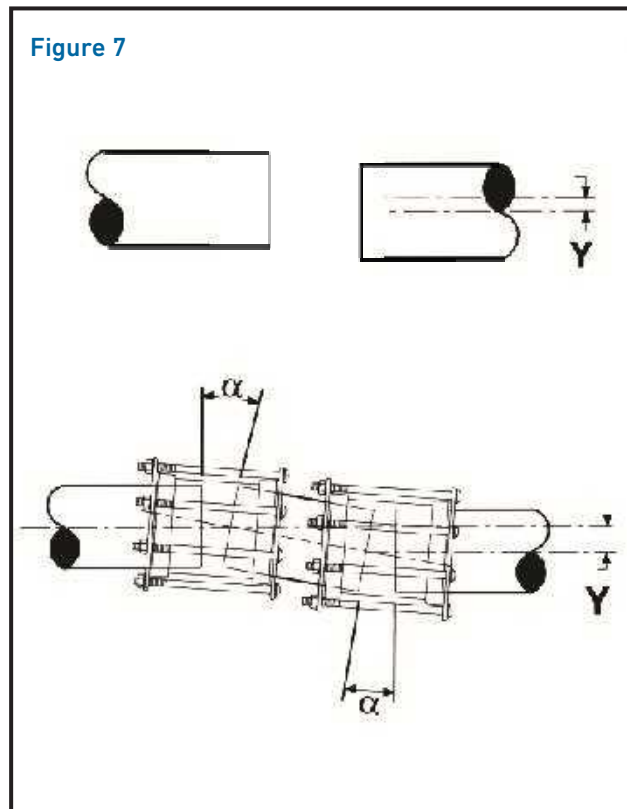
Pipe OD = 762mm

Lateral displacement to be accommodated = 180mm

Minimum closing length = $180 \times 15 = 2700\text{mm}$

N.B. For KLAMFLEX flange adaptors these lengths must be doubled.

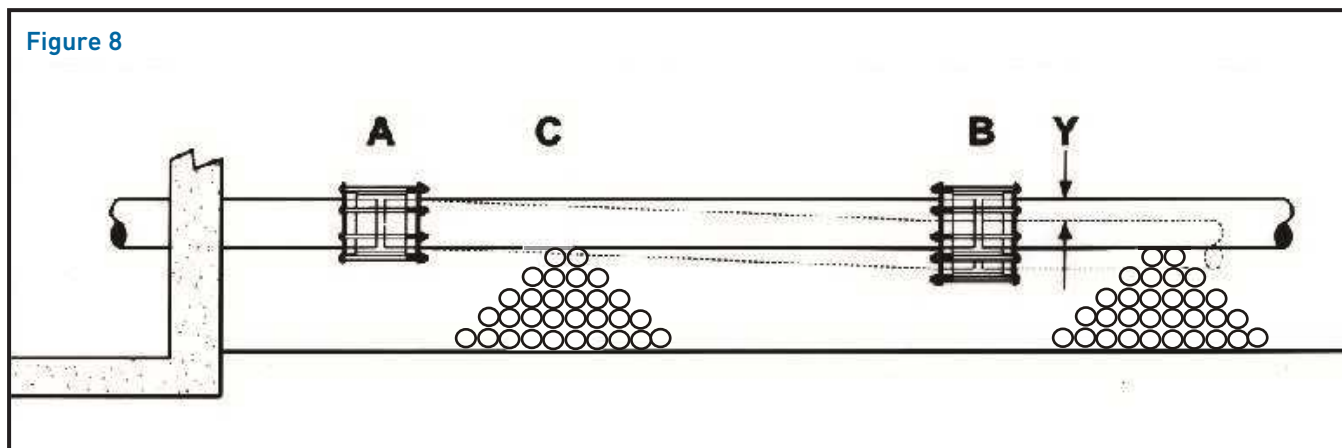
Figure 7



Ground Settlement

Ground settlement e.g. where a pipe leaves an underground structure, can be accommodated by a pair of KLAMFLEX couplings. All pipe trenches are of necessity excavating below the invert to allow for pipe bedding. Where this bedding is to be flexible, e.g. granular fill, some settlement of the pipe will inevitably occur when it is backfilled. To relieve pipe stresses, coupling A should be installed as close to the structure as possible. Coupling B permits pipe C to articulate, taking up settlement Y. The length of pipe C is determined as in above diagram, though its structural strength in bending must be considered.

Figure 8



Excellence in Flow

Visit our webpage to get in touch with your local specialist:

www.georgfischer.com/locations



The information and technical data (altogether "Data") herein are not binding, unless explicitly confirmed in writing.
The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All
Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems and VAG Klamflex apply.



VAG_BR_Klamflex_EN_01 (07.26)
© Georg Fischer, VAG Klamflex