

Force de traction admissible - Permissible Pulling Force

Range pipe :

Nominal diameter :

Vertical pushing forces

Length of pipe :

Density bentonite :

Diameter ext. the socket element included ZM-U / PE-U / safety collar PUX + rubber + metal cone :

Frictional forces

Friction between pipe and bentonite (normal $\mu = 0.2$) :

Static friction coefficient between the pipe and the borehole (normal $\mu = 1$) :

Possibilities for Ballast

Ballasting with ductile iron pipe UNIVERSAL Ve

Nominal diameter of the ballast pipe:

Necessary traction force :



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Ø outside for ballast :

Necessary traction force :

Ballasting with HDPE pipe, the presence of water between the iron pipe and pipe PE

Necessary traction force :