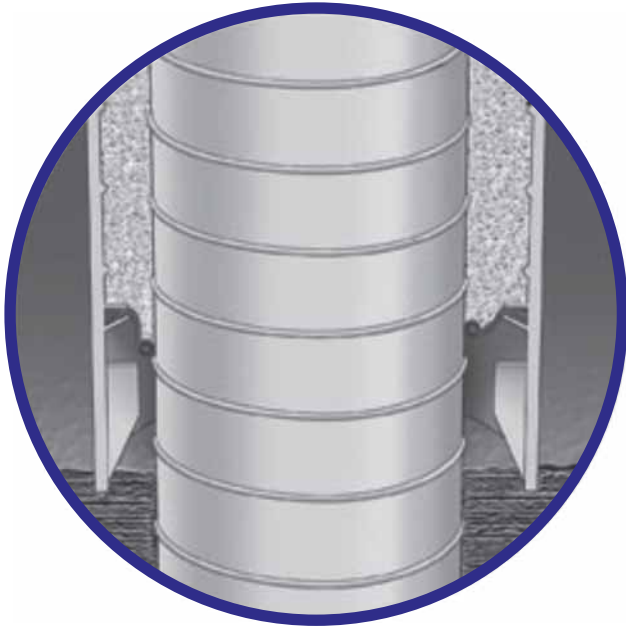




## CRUX Grout Seals for Special Applications



### CRUX Eccent Seals

A special Grout Seal available for structures with pre-installed piles. Pile verticality and positioning tolerance dictates that greater eccentricity may occur between pile and sleeves.

The special Grout Seal is designed to accept the increased annular dimension with provision of shape allowing for extension.

### CRUX Vulcan Seals

This seal has been developed and tested for use on structures with relatively small pile sizes. The Seal is vulcanised onto the Seal Can. The Seal Can is of similar size to the structure member (leg or sleeve).

A single Seal can be used for limited pressure head (around 10 metres of grout) but two or more Seals can be used for greater pressure head (detail shows two Seals).



### Advantages to using CRUX Grout Seal Systems

- No hoses, valves or other hardware to purchase, fit or test. This results in clear cost savings and eliminates the dominant cause of frequent grout support system failure.
- No site testing or commissioning required.
- The Grout Seal also functions as a wiper, preventing seabed material from entering the annulus to the detriment of grout connection strength.
- No offshore operation is required.
- No residual activation hardware remains to cause cathodic protection drain or diver hazard.