## **OIL AND GAS EQUIPMENT**

## **Slip-on Casing Packers**

These packers are built with internal diameter large enough to allow them to be slipped onto a joint of casing and then be secured in place using a high strength, filled epoxy resin. This design provides a means of installing a casing packer onto casing without welding or threading. Best of all, the customer supplies the casing so he has the ultimate control of the quality of this all important well member. Moreover, these packers are normally inflated by means of a small bore control tube run on the outside of the casing, so there are no holes in the casing due to port collars or the like. This inflation technique also makes them more suitable for near surface operations.

Owing to the usual application for these packers being shallow gas isolation and cement "thief-zone" isolation, operating pressures are generally kept low, typically below 500psi. Normally a fixed end packer design is employed to simplify the construction while still providing a high integrity sealing system. However, sliding end packer design is sometimes employed where large expansion or higher differential pressure capacities are required. For example, one of the 13 3/8" casing packers we manufacture in this style is designed to be set in a 32" I.D. conductor whilst its run in size is less than 16" O.D.

The standard size ranges are 9 5/8" to 13 3/8" , 13 3/8" to 20" and 13 3/8" / 20" to 30"/32"

## Inflate-on Casing Packer

This innovative packer design combines a traditional externally inflating packer with an internally inflating packer similar to those usually employed for grouting on platform pile skirts. The combination provides a casing annulus packer that may be retro-fitted into a casing annulus to overcome such problems as shallow gas seepage or as a cementing aid. The packer is installed by sliding it down over a previously grouted casing using wire rope. When at the required depth both packers may be inflated. The internal one seals the packer to casing annulus and the external one seals the remainder of the casing annulus.

Inflation is from the surface via small bore control tubes. Maximum inflation pressures of up to 1000psi are available with this style of packer. Pressure rating principally depends on the internal element inflation distance i.e. the amount the internal element must move in order to seal on the casing. Sizes up to 72" diameter are presently available. The minimum annuls size required to accommodate this style of packer is approximately 2" depending on required differential pressure rating.