

Line Plugging Services



Hydratight's line plugging service is ideal for temporary or permanent isolation of pipe work, allowing repair or modification without the need for plant shut-down or the loss of production or process media.

Freeze Plugging

A non-invasive alternative to mechanical plugging, cryogenic freezing is the freezing of process or production media at full operating pressure to provide temporary isolation of pipe work.

Suitable for pipelines up to 1219 mm (48") diameter, freezing the media down to form a plug allows modifications or repairs downstream without the need to drain the pipeline. This process requires the operator to stop the flow of media through the pipeline to allow freezing to take place.

Isolation of the downstream pipe is achieved by fitting a purpose made enclosure through which cryogenic liquid nitrogen or carbon dioxide are piped.

Rapid cooling of the process media inside the pipe quickly follows forming a pressure tight frozen plug. With no pipe modifications necessary, this temporary plugging method offers a solution to maintenance or repair needs.

Operator Benefits:

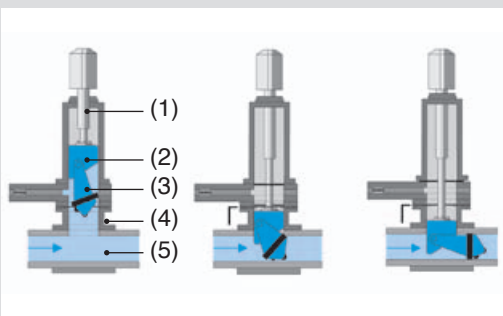
- Continued production during pipe work modification or repair
- Integrity of pipe work maintained – no need to re-test plug location
- Drainage of media avoided, production performance maintained

Mechanical Plugging

Purpose designed equipment in the hands of highly skilled field service engineers enables fast and safer mechanical line plugging at full operating pressure. It allows for emergency and scheduled stopping of a liquid or gas flow, in a pipeline operating at full pressure.

Operator Benefits:

- Isolate, repair or modify pipe-work without production loss
- Plug and bypass without interruption to process flow



Mechanical Plugging of a Pipeline Under Pressure

- (1) Special 'Flow Stop' Machine
- (2) Plugging Head
- (3) Slide Valve
- (4) Fitting
- (5) Main Pipeline