

6" BISEP™ | Damman's Second Industrial Area, Saudi Arabia

STATS Group performed its first BISEP™ intervention and isolation operation in the Kingdom of Saudi Arabia. Two 6" BISEPs™ were utilised to carry out multiple operations in Damman's Second Industrial Area on behalf of a natural gas distribution company. The client has a vast underground distribution network providing natural gas to industrial clients throughout the city. The two BISEPs™ were deployed simultaneously to provide a mid-line isolation of a 70 metre section of the network while hot work modifications were performed with the system live and at full operational pressure of 19 bar.

The pipework followed a main four lane highway through the city, which presented additional safety challenges. One lane was partially closed while excavation work to uncover the pipework was carried out, allowing STATS technicians access to complete the intervention and isolation work. The highway remained open for the duration of the workscope.

STATS patented BISEP™ provides fully proven double block and bleed isolation deployed through a single hot tap penetration. The dual energised seals provide an annulus port that proves and monitors the seal integrity before and during the intervention work. The high integrity isolation provided by the BISEP™ allowed welding to be performed on the gas system in a heavily industrialised area without shutting down. Once the maintenance work was completed and the BISEPs™ were recovered, completion plugs were fitted to the split tee flanges allowing the fittings to remain on the line.

STATS supplied all hot tap split tee fittings, hot tapping machine, BISEPs™ and completion plugs, and all hot tapping and line isolation work was carried out by STATS technicians. Prior to deployment onsite, STATS carried out a client witnessed factory acceptance test in their Abu Dhabi facility.



BISEP™ deployed and monitored



Hot tap machine and pipe coupon removed



Completion plug and blind flange fitted to the split tee fitting