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## Fitting Installation

TDW offers a full range of in-service welding solutions that can be tailored to fit your specific requirements. From routine maintenance to emergency repair, your welding needs will be reliably met by qualified, highly experienced welders who arrive fully prepared to perform safely, efficiently and according to code.



Pipeline Performance™

# TDW In-Service Welding

As the industry leader in professional welding on pressurized piping, TDW offers a full range of services that can be tailored to fit your specific requirements, including:

- Thermal Analysis Modeling (to predict cooling rates, inside surface temperatures and HAZ hardness levels, reducing the risk of burn-through and hydrogen cracking)
- Choice of welding processes (SMAW, GTAW, GMAW, FCAW)
- Certified welders trained in heat input control and bead deposition sequence techniques
- Pre-planning of each job to include numerous qualified procedures for field welding
- Custom procedures developed and tested as required
- Jurisdictional hot tap approval packages and engineering
- Site supervision and project management
- Comprehensive welding documentation and turnover packages
- API 1104, API 1104 Appendix B, and ASME Section IX compliant



*Installation of a TDW tapping fitting*



*Welder qualification*



*Fit up of welded fitting*



*Preheating with torch & ceramic blankets*



*Completed fitting*

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