

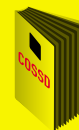
COSSD PRODUCT CATALOGUE

for

ENREACH
HOT TAP SERVICES

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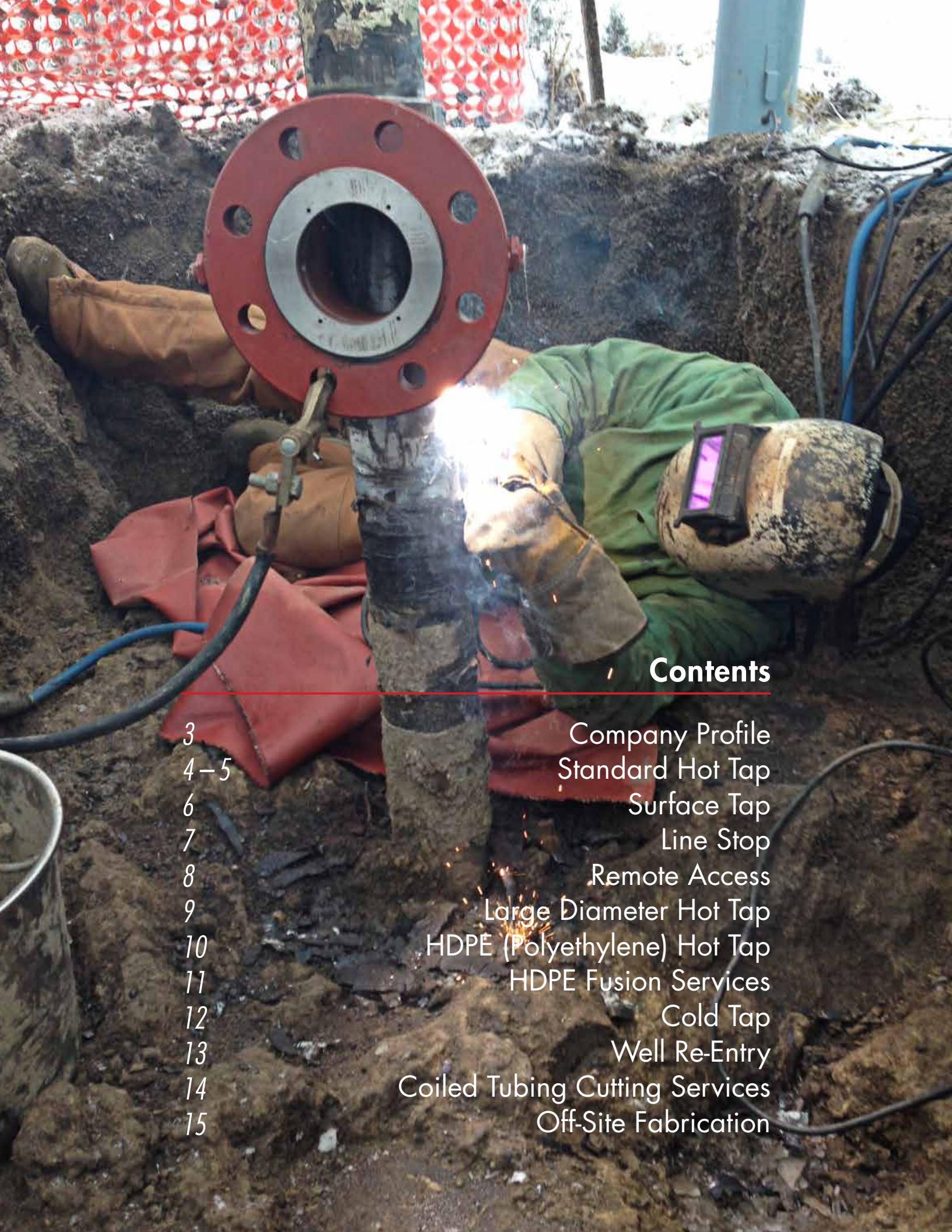
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ENREACH HOT TAP SERVICES





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HOT TAP SERVICES

EnReach Hot Tap Services was established in 2005, and has been supplying customers with specialized turnkey hot taps, line stops and cold taps for the oil, gas and petrochemical industry. We have a patented system for hot tapping (Surface Taps), experienced professional crews and support staff that make us the best in the business.

We have steadily grown as a hot tapping expert over the years and have added new services for our clients along the way. Innovative services such as coiled tubing cutting (ability to cut tubing from the inside out, below the tubing hanger), off-site welded pressure piping spools & fabricated fittings, full service well re-entries, large diameter HDPE couplings, and hot taps.



The Standard Hot Tap leaves the valve in close proximity to the vessel or pipeline being tapped. This allows the new line being tied in, to be directly connected to the hot tap. EnReach provides a full service hot tap that includes all of the engineering, ABSA or BCSA submissions, approved weld procedures, welding, inspection and QC turnover packages.

All weld procedures and QA/QC are both CSA Z662 and ASME B31.3 certified.





Standard Hot Tap on an Oil Refinery Storage Tank



Specifications

Sizes	1/2" through 30" outlet sizes
Pressure	Up to 5000 Psi
Temperature	Up to +370°C
Meets low temperature requirements	
Meets sour service requirements	
Internally pressure balanced hot tap machines for higher pressure applications	



Surface Tap

Surface Taps leave the main hot tap valve above ground, via a riser pipe, when hot tapping buried pipelines. The hot tap drill out takes place after back fill and is hot tapped from the surface. EnReach's patented hot tapping method allows for any length of riser pipe to accommodate any depth of pipeline. Surface Taps essentially have an unlimited amount of reach. Leaving the valve above ground has advantages, such as:

- Accessible control valve for future use, or emergencies
- The ability to create a pigging facility or camel back at the tie-in point
- No bolted connections buried below the surface



Specifications	
Sizes	2" through 8" outlet sizes *
Pressure	Up to 1480 Psi **
Temperature	Up to +177°C ***
Meets low temperature requirements	
Meets sour service requirements	
Meets all ABSA, ASME B31.3 and CSA Z662 requirements	

* Larger sizes ** Higher pressures *** Higher temperatures are all available by request on a per job engineering assessment.



Line Stop



4" High Pressure Line Stop

Line Stops are used to completely stop the flow and hold back the pressure of a pipeline through a hot tap and fitting connected to the pipeline. Two sets of line stops, and piping connected to them, can divert the flow around a problem area within a pipeline so that the flow in the line is never interrupted, and the problem area can be isolated, repaired or altered. EnReach uses several different types of line stops depending on the pressure, temperature and product in the line.

- *True double block and bleed line stops*
- *Inflatable bladder line stops*
- *Traditional style line stop heads*
- *Line stops that do not require size on size hot taps*
- *"No spill" procedures and systems for downstream work*



12" Line Stop

Stage 1



Stage 2



Stage 3

Specifications	
Sizes	2" through 28"
Pressure	Up to 1480 Psi
Temperature	Up to +177°C
Double block and bleed style available	
Available for Steel, HDPE and PVC pipelines	
Meets low temperature requirements	
Meets sour service requirements	



18" PVC Line Stop

* Pressure, temperature, size and product in the line determine what line stops are used and if a double block and bleed system is available for those conditions. All line stops are reviewed on a per job engineering assessment.

Remote Access



EnReach's hot tap equipment can be broken down into modular components to facilitate transport into remote areas. This includes transportation by helicopter, Nodwell, and ATV's/UTV's to get to the remote site.



Large Diameter Hot Tap

EnReach's expertise accommodate today's increasing demand to update, expand and revise large diameter piping systems. EnReach has the equipment to perform hot taps that range up to 30" in diameter outlets and up to 5000 psi. EnReach has a commitment to safety, quality workmanship and reliability. Our engineers work with EnReach's experienced field technicians to provide great customer service and support, which is available 24/7.



**Completed 12" Ansi 600 Hot Tap
Showing Recovered Coupon**

Specifications

Sizes	8" through 30" outlet sizes
Pressure	Up to 5000 Psi
Temperature	Up to +280°C
Meets low temperature requirements	
Meets sour service requirements	
Internally pressure balanced hot tap machines for higher pressure applications	

Industries assisted:

- *Power Plants and Industrial Piping*
- *Oil and Gas Transmission Pipelines*
- *Refinery Process Piping*
- *Municipality Water and Waste Water Pipeline*
- *Gas Distribution Lines*

HDPE (Polyethylene) Hot Tap

EnReach provides a full package poly hot tap solution, including all of the material and personnel for fusing. Additionally, we complete the final tie-in of the new line to be connected. Hot tapping the branch connection to existing mains has several advantages over Y-Lateral connections:

- *More cost effective*
- *Less ground disturbance*
- *Significantly smaller bell hole/less live pipe that needs to be exposed*
- *Safer: No release of LEL's, no wells to shut in, no static electric discharge with hot taps*
- *Improved pigability compared to a Y-Lateral*



Large Diameter Poly Drill Out



8" x 4" with Steel Riser



28" x 12"



24" x 18" Poly Hot Tap

Specifications

Sizes	1/2" through 18" outlet sizes
Pressure	Up to 300 Psi (SDR 7.3)
Temperature	Up to +50°C
SDR Range	41 (PVC) through 7.3 (HDPE)
Size on Size branch connections	
Full QA/QC packages for all hot taps	
All EnReach personnel are ticketed Fusion Technicians	

EnReach has
completed over 1000
Poly Hot Taps with
zero incidents

HDPE (Polyethylene) Fusion Services



Butt Fusion

EnReach provides a variety of fusion services for all applications of HDPE piping and fire water systems. EnReach is one of the only companies in Western Canada with fusion technicians certified to fuse high pressure and or large diameter couplings.

- *Butt fusion services ranging from 2" to 36" (all SDR sizes, large diameter fusion techs on staff)*
- *Electrofusion services for installing couplings, Y-Laterals and Tees*
- *Line squeezes for 12" pipe and smaller*
- *Large diameter and/or high pressure electrofusion coupling installations*



EF Services

EnReach builds HDPE headers, piping spools and pre-manufactured pipeline tees. All shop fabricated fittings and spools are pressure tested and come with a full QA/QC turn over package.



Pre-Fabricated Fittings



**Large Diameter Couplings
(28" Electrofusion Coupling)**

Cold Tap

Cold Tapping is a term used to describe a method of tapping into a live pipeline, tubing, or well casing without the need to do any welding or hot work. Cold Taps are used to safely check for or release unknown pressure or fluid in piping. Cold Tapping is routinely used for:

- *Hot tie-ins to ensure the proper pipeline is down*
- *Pipeline abandonments when existing history is unclear*
- *Well re-entries to ensure well bore is completely dead on cut and capped wells*
- *Drilling rig tubing or drill stem if suspected trapped pressure*

Cold Taps should always be used prior to cutting into any existing piping system. This is the only safe way to ensure that there is no pressure on the inside. On several occasions EnReach was contracted to cold tap for clients that were 100% sure the line was dead. They still had significant pressure in the pipeline that was safely dealt with because they were cold tapped.



Specifications	
Sizes	1" through 16" main line sizes
Pressure	Up to 1480 Psi
Temperature	Up to +177°C
All tubing and well casing sizes	
Meets sour service requirements	

*Higher pressures available on request.



Well Re-Entry



**Casing Bowl Welded
on Well Re-Entry**



Well to be Cut and Capped

EnReach's Well Re-Entry service takes existing cut and capped wells and safely cold taps the well surface casing, and subsequent production casing. After cold tapping confirms the well bore is completely dead the production casing and surface casing are extended to the surface with welded collars. Lastly, a new casing bowl and casing vent are welded at the surface to accommodate a well head and ensuring access to the well.



**Cold Tapping on Surface Casing Prior
to Well Re-Entry in a Mine**

Specifications	
Sizes	All surface casing and production casing size
Pressure	Up to 1480 Psi *
Temperature	Up to +177°C
Full service re-entry including welding, cold tapping and material	
Meets sour service requirements	

*Higher pressures available on request.

Coiled Tubing Cutting Services



**EnReach Tubing Cutting Tool
Attached to Hot Tap Machine**



Cut Tubing Below Hanger

EnReach offers a highly specialized service to cut tubing from the inside out, below a tubing hanger. Occasionally, wells that have tubing hanging in a tubing hanger need to be removed or abandoned. When the tubing in these wells is “stuck”, and the slips cannot be safely removed, EnReach has the expertise to cut the tubing off below the slips and hanger assembly, so they can be safely removed. This is done using custom tooling and the hot tap machine attached to the well head. This tooling was designed, tested and built by EnReach. You will not find this innovative service anywhere else.



**Tubing Hanger Where Tubing
was Cut on Well Head**

Off Site Fabrication



Fabrication of Pig Launchers

EnReach has a fully equipped welding shop and fabrication facility located in Red Deer, Alberta. We are ABSA, BCSA and CWB certified and have the ability to fabricate, hydro test, and perform the QA/QC on pressure piping spools, vessels and any structural requirements.

EnReach also fabricates HDPE (Polyethylene) piping spools, headers and fittings for clients at our facility. All fabricated products are pressure tested and have a full QA/QC turnover package.



Fabrication of Custom Water Pump Piping

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