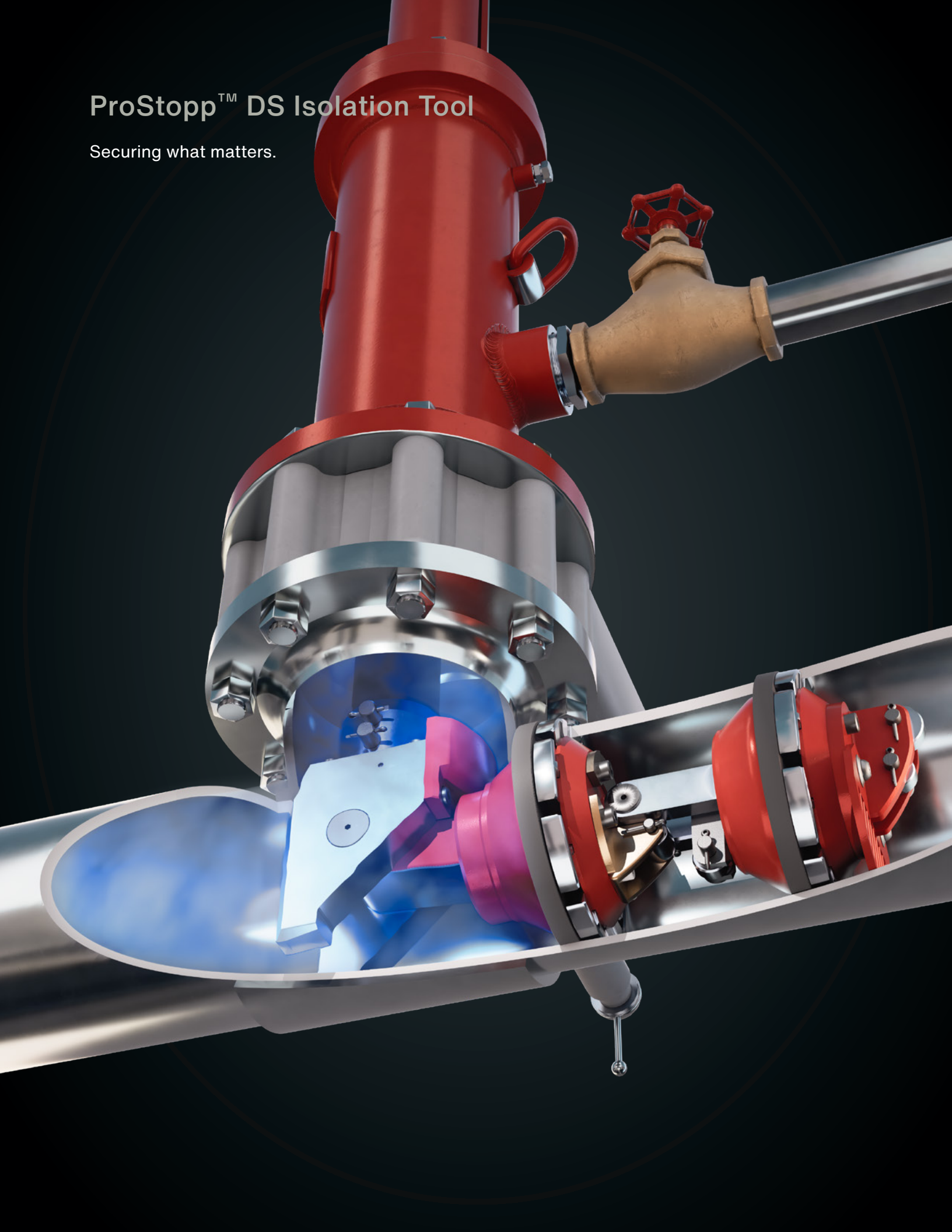


As the world's most trusted provider of integrated piping maintenance, modification and repair capabilities for a full range of pipelines –including steel, polyethylene, PVC, ductile and cast iron – TDW delivers customized solutions specifically designed to optimize performance, reduce costs and make downtime a thing of the past.

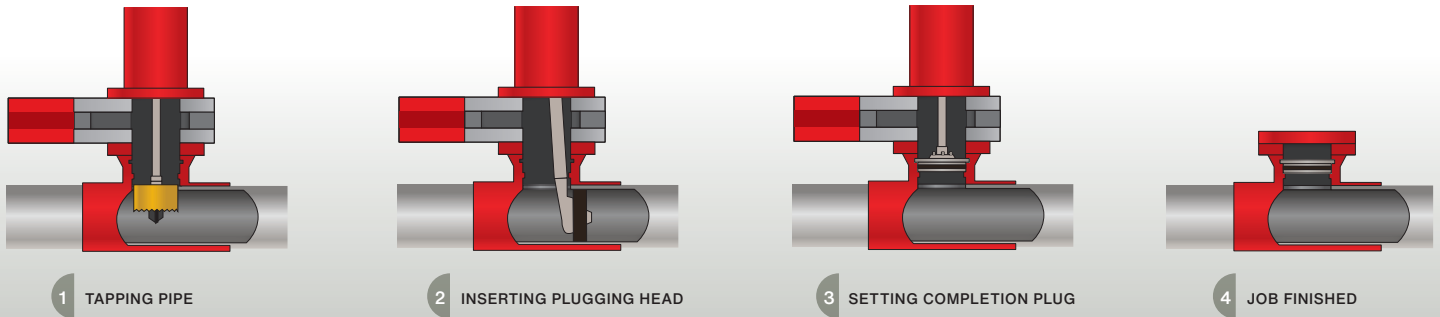
ProStopp™ DS Isolation Tool

Securing what matters.



Hot Tapping & Plugging Systems

TDW provides versatile, fully engineered hot tapping and plugging solutions for the maintenance, modification or replacement of pressurized piping systems for steel, polyethylene and more – without interrupting service. Contact your local TDW representative to learn more about our solutions, including sizes, pressure classes, pipe material, equipment combinations and utilization.



Drilling and Tapping

1 T-101b (XL) Drilling Machine

Manual or air-driven machine to drill or tap steel pipelines under pressure up to 1480 psi (100 bar).
Sizes: Inches ½–4 / DN 15 - 100

2 T-203 Tapping Machine

Lightweight with a low center of gravity, designed for easy handling to make hot taps in steel and polyethylene pipelines under pressure up to 725 psi (50 bar).
Sizes: Inches 4–12 / DN 100 - 300

3 P-101 / P-101XL Tapping Machines

Specially designed for polyethylene pipeline hot taps and modifications, the P-101 can be used for branch connections or isolation operations while avoiding shut down.
Sizes: Inches 2–4 / DN 50 - 100

Plugging Equipment for Steel Pipes

4 SHORTSTOPP® II Plugging System

More dependable, easier to use and a more cost-effective solution for plugging steel lines under pressure.
Sizes: Inches 1.25–12 reduced branch
Inches 4–12 size on size

5 SHORTSTOPP® 275 and 500 Plugging System

Developed to meet the growing demands for working under higher pressure steel lines.
Sizes: Inches 1.5 at 275 psi (19 bar)
Inches 2–12 at 500 psi (34.5 bar)

6 Positive Shut Off (PSO) Plugging System

Designed to temporarily stop the flow of product in a pipe section. An expandable seal ensures better sealing (positive sealing).
Sizes: Inches 2–12 up to 60 psi

7 ProStopp™ DS Isolation System

The ProStopp™ DS isolation system is a double block and bleed isolation tool designed to efficiently and economically block flow in a pipeline for repairs, relocations or tie-ins. This hydraulically activated isolation tool uses an energized seal which allows for one sealing element to cover multiple wall thicknesses per nominal pipe size.
Sizes: Inches 6–12

Plugging and Branching Equipment for PE Pipes

8 POLYSTOPP® Quick Connect Plugging System

With its revolutionary connection design, the POLYSTOPP® Quick Connect system makes it easy to safely perform hot tapping, plugging and branching on polyethylene (PE) pipelines – and does it faster than any other isolation technology. The system is lightweight and simple and uses significantly less excavation space. 2-inch bypass capable and covers pressures up to 150 psi (10 bar), as well as multiple standard dimension ratios.
Sizes: Inches 4–8



DRILLING AND TAPPING

1 T-101b (XL) Drilling Machine



2 T-203 Tapping Machine

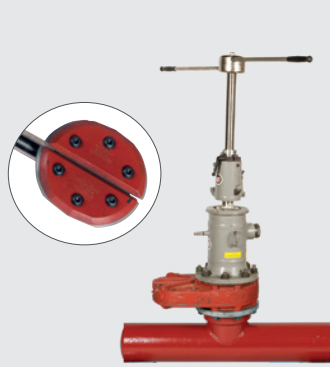


3 P-101 and P-101XL Tapping Machines



PLUGGING AND BRANCHING

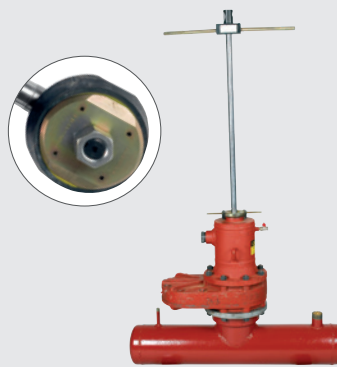
4 SHORTSTOPP® II Plugging System



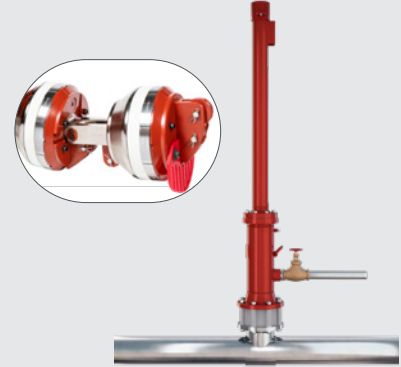
5 SHORTSTOPP® 275 and 500 Plugging System



6 Positive Shut Off (PSO) Plugging System



7 ProStopp™ DS Isolation System



8 POLYSTOPP® Quick Connect Plugging System



STEEL AND PE

STEEL

PE

Find Your Fitting Solution

A pioneer in hot tapping & plugging procedures for nearly a century, TDW provides state-of-the-art HT&P solutions for piping industries around the globe – from 2-inch (50 mm) gas services to 102-inch (2550 mm) water lines and hundreds of bar to hundreds of meters under water.



1 SHORTSTOPP® Weld Fitting



2 SHORTSTOPP® 300D Split Tee



3 SHORTSTOPP® 3-WAY™ Tee



4 SHORTSTOPP® Flat-Bottom Tee



5 SHORTSTOPP® 300D Full Encirclement 3-WAY™ Tee



6 SHORTSTOPP® Spherical 3-WAY™ Tee



7 SHORTSTOPP® 300D Spherical 3-WAY™ Tee



8 SHORTSTOPP® 740 Purge and Equalization Fitting

Fitting Type	Pressure Class	PIPE		
		Rating	Material	Size
1 SHORTSTOPP® Weld Fitting	ANSI 150	285 psi 19 bar	Steel	Inches 1¼–12 DN 15–300
2 SHORTSTOPP® 300D Split Tee	ANSI 300	740 psi 51 bar	Steel	Inches 2–12 DN 50–300
3 SHORTSTOPP® 3-WAY™ Tee	ANSI 150	285 psi 19 bar	Steel	Inches 1¼–12 DN 15–300
4 SHORTSTOPP® Flat-Bottom Tee	ANSI 150	285 psi 19 bar	Steel	Inches 1¼–12 DN 15–300
5 SHORTSTOPP® 300D Full Encirclement 3-WAY™ Tee	ANSI 300	740 psi 51 bar	Steel	Inches 2–12 DN 50–300
6 SHORTSTOPP® Spherical 3-WAY™ Tee	ANSI 150	285 psi 19 bar	Steel	Inches 2–12 DN 50–300
7 SHORTSTOPP® 300D Spherical 3-WAY™ Tee	ANSI 300	740 psi 51 bar	Steel	Inches 2–12 DN 50–300
8 SHORTSTOPP® 740 Purge and Equalization Fitting	ANSI 300	740 psi 51 bar	Steel	Inches 2 DN 50

Every TDW product and service is specifically designed to optimize pipeline performance and protect valuable pipeline assets.



9 C90 Weld Fitting 10 SHORTSTOPP® Bolt-On Fitting 11 SHORTSTOPP® Bolt-On 3-WAY™ Tee 12 Mechanical SHORTSLEEVE™ Fitting



13 M-STOPP™ Fitting 14 POLYSTOPP® PE Plugging Fitting 15 POLYSTOPP® PE Branching Fitting

TDW provides connection and transition fittings for steel and PE applications.



Fitting Type	Pressure Class	PIPE		
		Rating	Material	Size
9 C90 Weld Fitting	--	60 psi 4 bar	Steel	Inches ½-1½ DN 15-40
10 SHORTSTOPP® Bolt-On Fitting	--	60 psi 4 bar	Steel / PVC / CI / DI	Inches 2-12 DN 50-300
11 SHORTSTOPP® Bolt-On 3-WAY™ Tee	--	60 psi 4 bar	Steel / PVC / CI / DI	Inches 2-12 DN 50-300
12 Mechanical SHORTSLEEVE™ Fitting	--	175 psi 12 bar	Steel / CI / DI	Inches 2-12 DN 50-300
13 M-STOPP™ Fitting	ANSI 150, 300, 400	990 psi 68 bar	Steel	Inches 3-12 DN 80-300
14 POLYSTOPP® PE Plugging Fitting	--	150 psi 10 bar	PE 80 / PE 100	DN 90-250
15 POLYSTOPP® PE Branching Fitting	--	150 psi 10 bar	PE 80	DN 110-250

PVC - Polyvinyl Chloride | CI - Cast Iron | DI - Ductile Iron | PE - Polyethylene

Gas Distribution Services

Our services are backed by nearly a century of experience and the largest fleet of customized equipment, fittings and accessories in the world. Our focus is and always has been the customers with whom we partner every day to deliver safe, reliable solutions. From routine maintenance to emergency repair, our team of highly skilled, fully certified technicians is ready to respond 24/7 with the highest quality, most cost-effective piping system solutions available. Our complete portfolio of innovative, high quality products and services delivers everything you need to troubleshoot potential problems and maximize distribution pipeline system efficiency:

- Consultation on Intervention and Isolation Best Practices.
- Training and Certification.
- Equipment Leasing Solutions.
- Project Planning and FEED Studies.
- Expert Witness and Auditing Services.
- Project Management.
- In Field HT&P Service Execution.
- Supplementary Field Crew Provision.
- Equipment Inspection, Maintenance and Repair.
- Rehabilitation Products.



Keeping Small Jobs Small

Smaller footprints, superior isolations: With its revolutionary connection design, the POLYSTOPP® Quick Connect system makes it easy to safely perform hot tapping, plugging and branching on polyethylene (PE) pipelines — and to do it faster than with any other isolation technology. The system is lightweight and simple and uses significantly less excavation space.



- Smaller excavation and restoration area.
- Best isolation options.
- Electrofusion fittings.
- Branching and plugging capabilities.



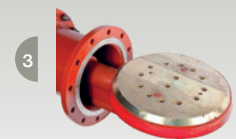
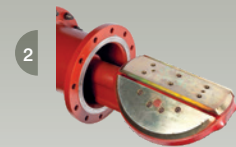
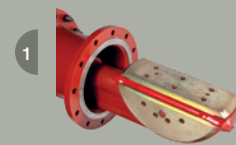
Smaller fittings, superior savings: Since TDW introduced the first folding head STOPPLE® plugging machine in 1956, we have been providing plugging solutions that redefine efficiency and economy.

For gas distribution networks up to 145 psi (10 bar), the folding plugging heads can save you money.

The Folding Plugger Model 1220 uses a three-part folding plugging head, which permits plugging a line from 12–21 inches (DN 300–520) using a 12-inch (DN 300) fitting.

The SHORTSTOPP® II Plugging System uses a folding plugging head to plug a 4-inch (DN 100) line using a 3-inch (DN 80) fitting, a 6-inch (DN 150) line using a 4-inch (DN 100) fitting and up to a 12-inch (DN 300) line using an 8-inch (DN 200) fitting. Smaller fittings mean greater savings.

Folding Plugging Head





1220 FOLDING HEAD PLUGGING MACHINE

POSITIVE SHUT OFF (PSO) PLUGGING SYSTEM

SHORTSTOPP® 3-WAY™ TEE FITTING

SHORTSTOPP® 500 PLUGGING MACHINE

SHORTSTOPP® 300D 3-WAY™ TEE FITTING

T-203 TAPPING MACHINE

SANDWICH® VALVE CLASS 3

300D SPHERICAL 3-WAY™ TEE FITTING

SHORTSTOPP® 275 PLUGGING MACHINE

SHORTSTOPP® PLUGGING MACHINE

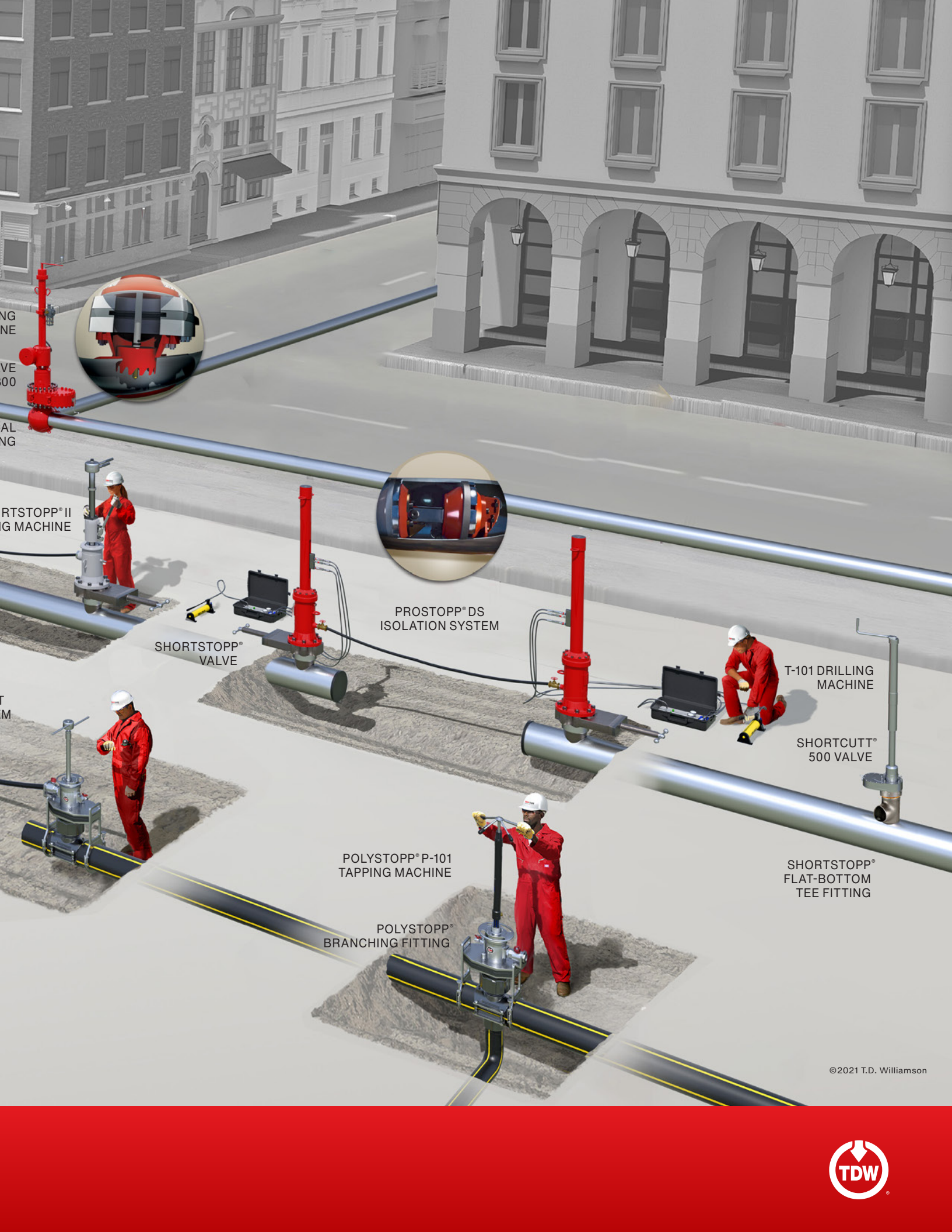
SHORTSTOPP® BOLT-ON FITTING

TRANSITION FITTING

POLYSTOPP® PLUGGING FITTING

POLYSTOPP® QUICK CONNECT PLUGGING SYSTEM

INTERVENTION AND ISOLATION CAPABILITIES for the Distribution Pipeline Market



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RTSTOPP® II
G MACHINE

SHORTSTOPP®
VALVE

PROSTOPP® DS
ISOLATION SYSTEM

T-101 DRILLING
MACHINE

SHORTCUTT®
500 VALVE

POLYSTOPP® P-101
TAPPING MACHINE

SHORTSTOPP®
FLAT-BOTTOM
TEE FITTING

POLYSTOPP®
BRANCHING FITTING

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