



TOTAL SYSTEM SOLUTIONS

WATERTIGHT SYSTEM SOLUTIONS

 **Franklin Fueling Systems**

PIPING & CONTAINMENT SYSTEMS

FUSION DUCTED ENTRY BOOT

HIGHLIGHTS

- APT™ brand Fusion Ducted Entry Boots provide a watertight seal between XP Pipe and polyethylene constructed containment sumps.
- Utilizing the electrofusion welding process, the entry boot, ducting, and sump become one solid structure, creating a watertight entry into the containment space.
- The electrofusion welding process is safe and simple to complete in any climate and virtually any weather condition.
- Ducting is recommended for future-proofing sites to accommodate pipe changes or as a pull chase for future station expansion.



A Franklin Fueling Systems Brand

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Franklin Fueling Systems



FUSION DUCTED ENTRY BOOT

APT™ brand Fusion Ducted Entry Boots provide a watertight seal between XP Pipe and polyethylene constructed containment sumps. Utilizing the electrofusion welding process, the entry boot, ducting, and sump become one solid structure, creating a watertight entry into the containment space.



Piping & Containment Systems

Highlights

- The two-piece design includes the entry boot itself and a reducer fitting which seals off the secondary XP Pipe layer inside of the sump.
- Creates watertight entries into containment sumps.
- Features integrated test ports on both the entry boot and reducer fitting.
- The electrofusion welding process is safe and simple to complete in any climate and virtually any weather condition.
- The welding process uses the lightweight, portable electrofusion welder unit to form watertight connections.
- Ducting is recommended for future-proofing sites to accommodate pipe changes or as a pull chase for future station expansion.
- Available for use with 1½", 1¾", and 2" XP Pipe diameters.

Ordering Information

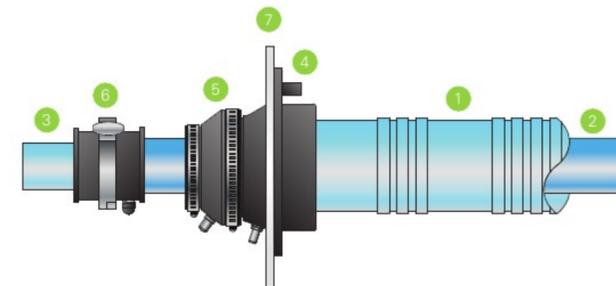
Model	Description
FWEB-150-SC	Fusion ducted entry boot for 1½" XP Pipe
FWEB-175-SC	Fusion ducted entry boot for 1¾" XP Pipe
FWEB-200-SC	Fusion ducted entry boot for 2" XP Pipe
EFI-230V	230 Volt handheld electrofusion welder
408032001	Step up transformer for handheld welder unit
304-CLAMP	Entry boot installation clamp tool
SCR.HAR	Hand scraper installation tool

Note: Installation involves the use of an electrofusion welder unit which requires the use of a step up transformer.

Specifications

Components

- 1 XP Ducting
- 2 XP Pipe (secondary layer outside of sump)
- 3 XP Pipe (primary layer exposed inside sump)
- 4 Fusion ducted entry boot
- 5 Reducing boot (included with fusion ducted entry boot)
- 6 Rigid split test boot
- 7 Polyethylene sump wall



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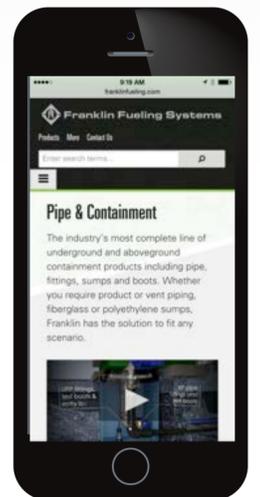




TRUE WATERTIGHT SYSTEMS

Water intrusion into containment spaces is one of the biggest expenses that marketers face today. Additionally, tightening regulations continue to drive the need for true watertight containment solutions that are **easy to install and can be relied upon for the entire life of the system** once concrete is laid.

Check out these complete watertight solutions to meet the needs of any application.

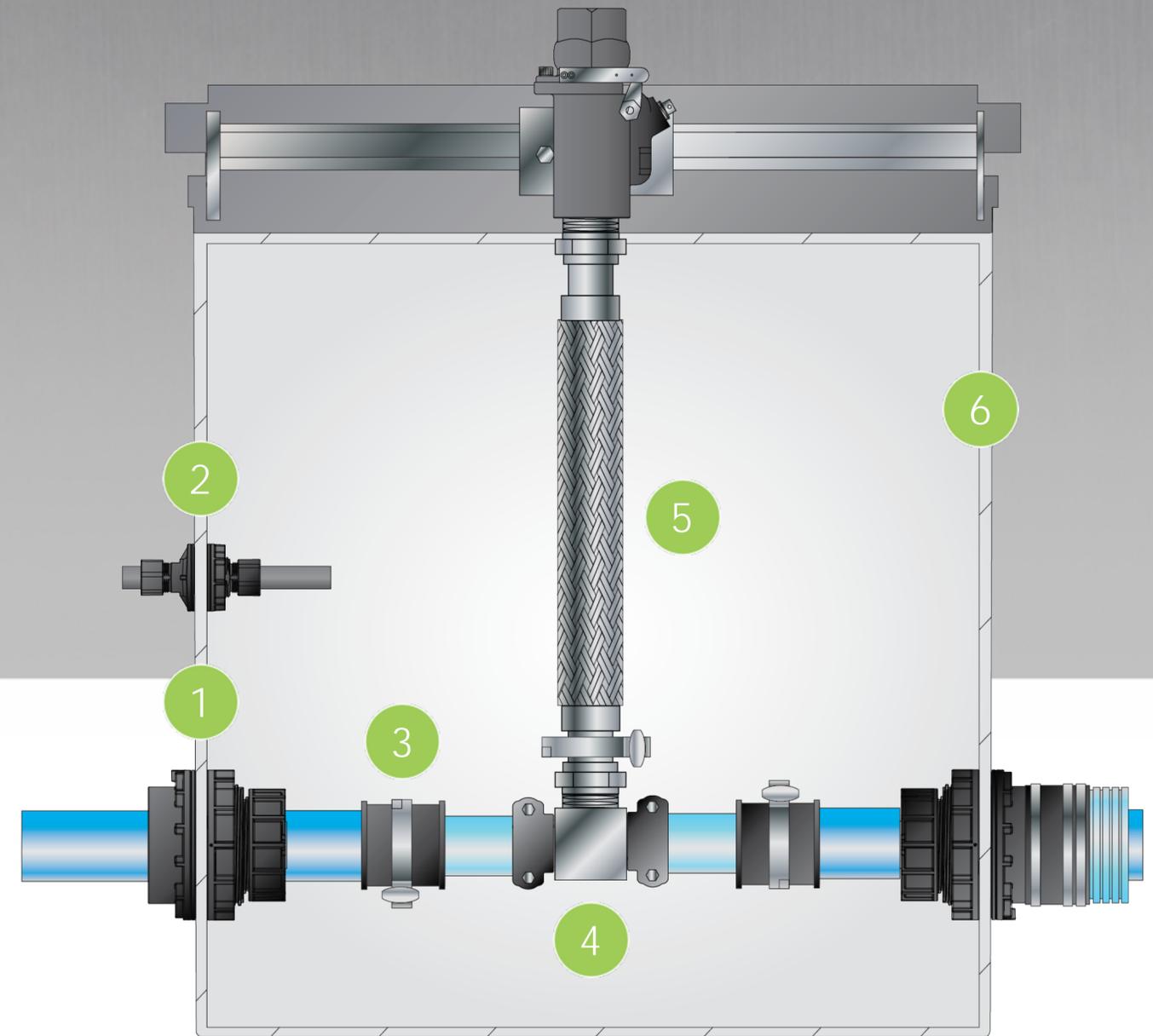


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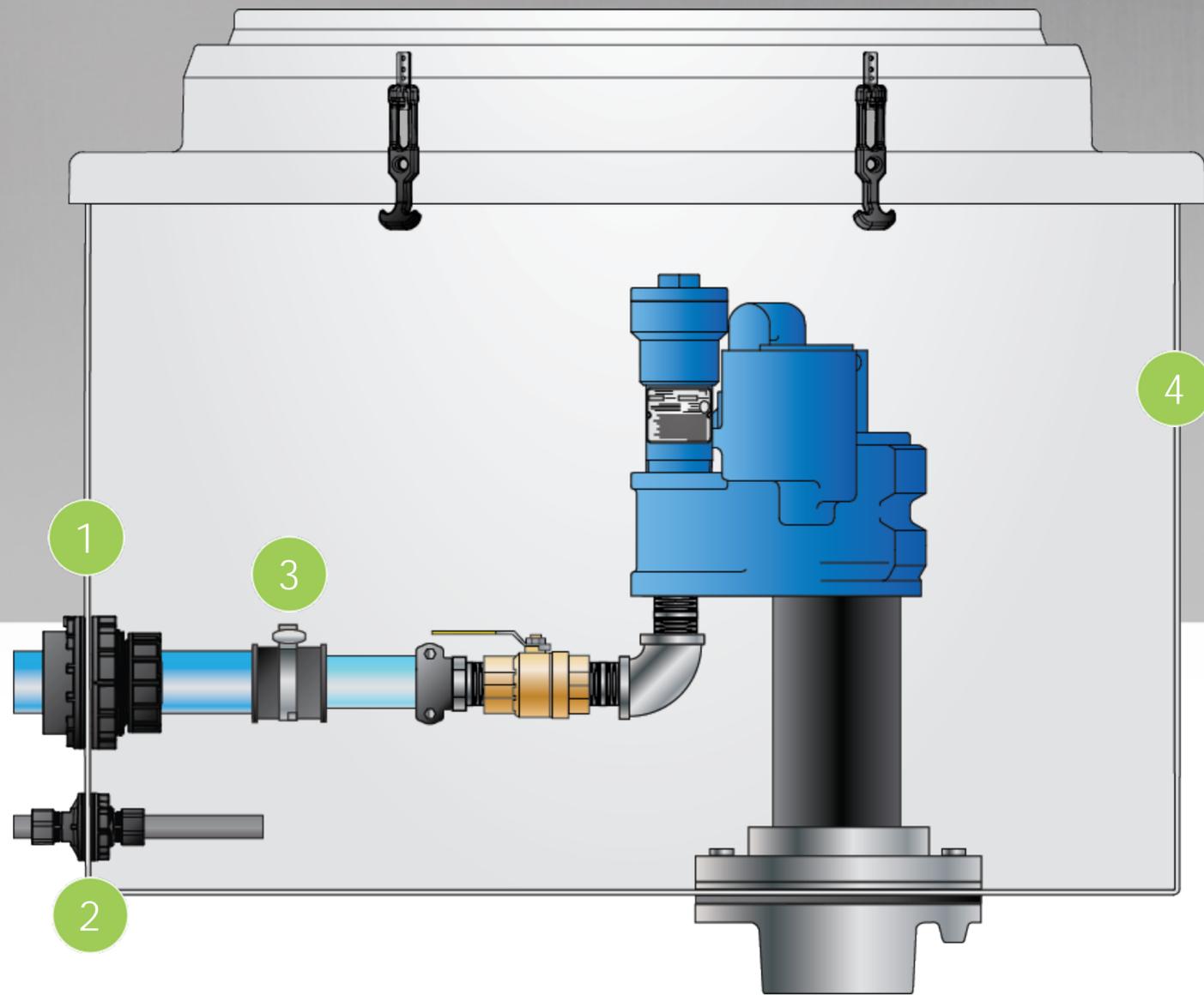
APT™ FIBERGLASS DISPENSER SUMP SYSTEM

With a high quantity of sump entry points, under dispenser containment sumps present a large opportunity for potential leak paths. Thwart these leak paths with watertight rigid entry boots and keep fuel safely inside the system by reducing threaded connections with tee/elbow fittings and flexible connectors.



APT™ FIBERGLASS TANK SUMP SYSTEM

The curved tank sump surface and the placement of the submersible pump's discharge outlet can make a proper 90° pipework entry next to impossible. Rigid entry boots feature curved sump adapters and integrated pipe guides to ensure a watertight 90° entry.



RIGID ENTRY BOOTS



ELECTRICAL CONDUIT RIGID ENTRY BOOTS



SPLIT TEST BOOTS



FIBERGLASS TANK SUMPS



RIGID ENTRY BOOTS

Rigid entry boots allow you to connect XP double wall flexible pipe to containment sumps with an unsurpassed level of installation ease, while also completely removing exposed rubber from the connection.



FAST ACCURATE INSTALLATION

Requires only a single 5" entry hole for installation, eliminating the time-consuming process of drilling multiple holes as well as the templates they require.



ENSURE 90° ENTRY

The interior ridges of the boot guide XP flexible pipe into place to assure a proper 90° entry into the containment sump.

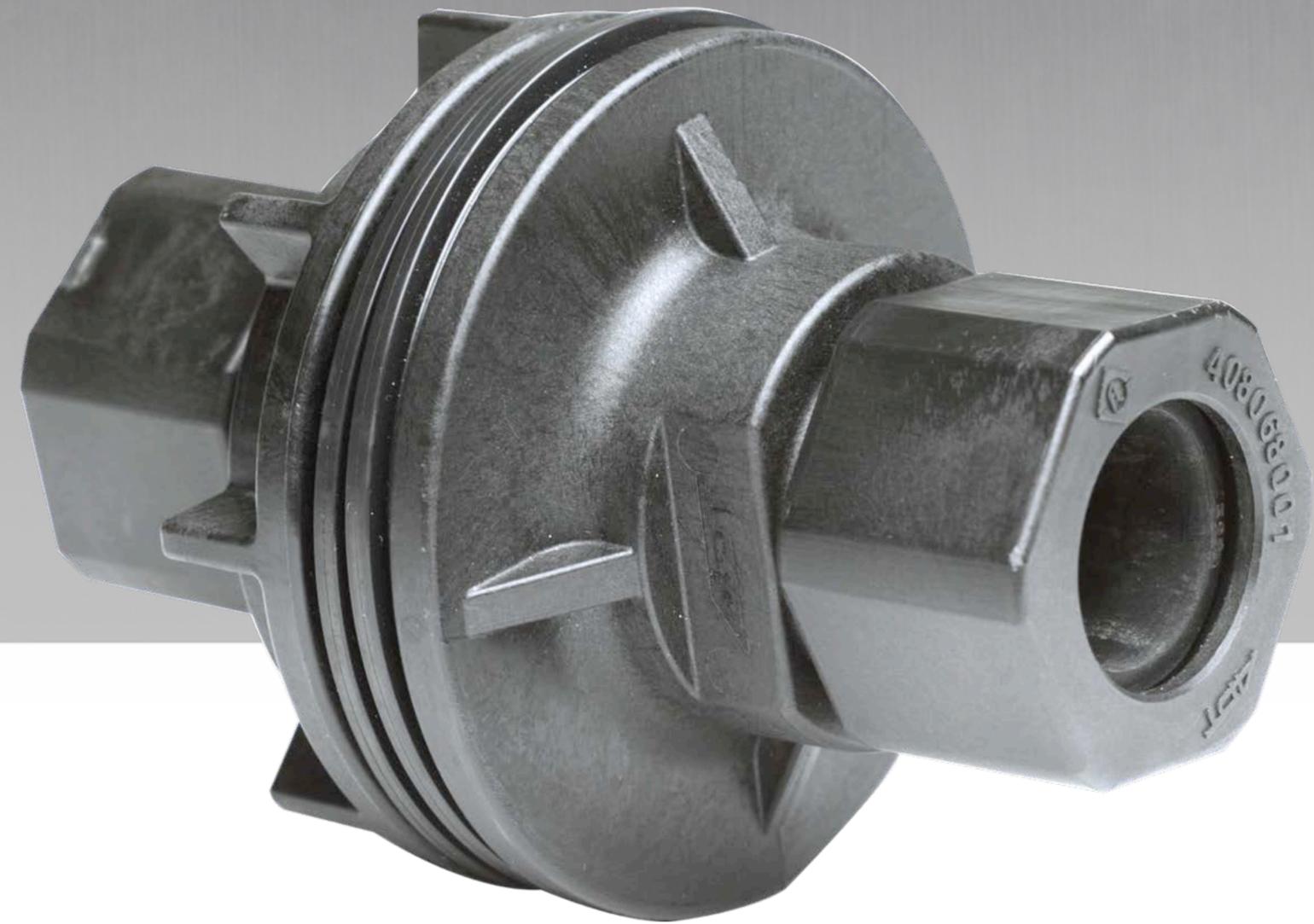


ANY APPLICATION

Suitable for use on flat and round sump surfaces with models available for both ducted and non-ducted applications.

ELECTRICAL CONDUIT RIGID ENTRY BOOTS

Allow you to connect both 1" and 3/4" electrical conduit to containment sumps with a significant reduction in installation time, while also completely removing exposed rubber from the connection.



FAST ACCURATE INSTALLATION

Requires only a single 2 3/4" entry hole for installation, eliminating the time-consuming process of drilling multiple holes as well as the templates they require.



WATERTIGHT SEAL

Features a dual-seal design that will provide a watertight seal with either galvanized or coated conduit.



ANY APPLICATION

Suitable for use on flat and round sump surfaces with models available for both ducted and non-ducted applications.



SPLIT TEST BOOTS

Split test boots are designed to make the integrity testing of secondary contained XP pipe simple and easy for both new and existing sites.



SIMPLE INSTALLATION

A hinged design allows you to clamp the boot down over the pipe after it has been installed.



SIMPLE PRESSURE TESTING

The integrated Schrader valve allows you to apply air pressure (5-8 psi) while the Nitrile rubber seals create an airtight chamber for testing purposes.



TAKE IT OR LEAVE IT

Once testing is complete the boot can be left in place for future testing or easily removed and used for testing on other sites.

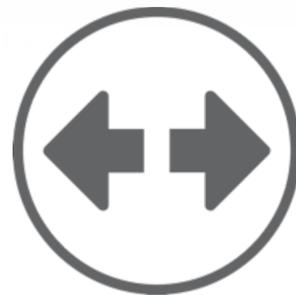
TEE & ELBOW FITTINGS

Tee and elbow fittings allow for an easy, space-saving installation by enabling an installer to connect flexible pipe directly into a shear valve riser while also eliminating the need for additional fittings and threaded connections.



REDUCE LEAK PATHS

Reducing threaded connections eliminates potential leak paths inside of the containment space.



MORE SPACE

Tee and elbow fittings free up valuable space inside of already tight containment sumps where space is already at a premium.



FUEL COMPATIBILITY

E-coated clamps and stainless steel fittings provide durability and biofuel compatibility.



FLEXIBLE CONNECTORS

Simply and easily connect pipework system to other systems components such as submersible pumps or shear valves.



EASY INSTALL & MAINTENANCE

Installers love their ease of installation while station owners have come to depend on their durability and how easy they make regular maintenance.



END CONNECTIONS

Available in a multitude of end connections to ensure the right fit for any application – including male, female, swivel, and FRP transitions.



EZ FIT CONNECTIONS

The EZ FIT union style coupling is designed to make connections in confined spaces simple and tight with easy disconnect for maintenance.

FIBERGLASS DISPENSER SUMPS

Designed for the installer, large mouth fiberglass dispenser sumps provide easy access to pipe connections making installation simple and maintenance easy to carry out.



Conduiteless Sump



PREVENT WATER ENTRY

Water dam top frame design prevents surface water from entering containment sump.



WATERTIGHT CONSTRUCTION

Sump body and top frame are factory assembled and watertight sealed on-site after pipework connections are made.



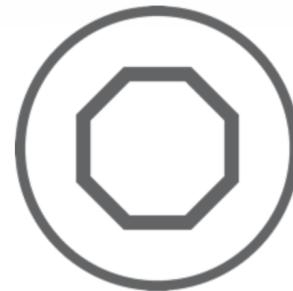
CONDUITLESS ELECTRICAL ENTRY

Avoid additional sump body penetrations by running electrical conduit through the top frame, eliminating potential leak paths.



FIBERGLASS TANK SUMPS

The large opening and two-piece design (octagonal models) provide the ample work space needed to accurately and watertight 90° pipework entries into the containment space.



OCTAGONAL BASE

Octagonal base models feature eight flat surfaces molded into the bottom section to facilitate 90° entry into the containment sump.



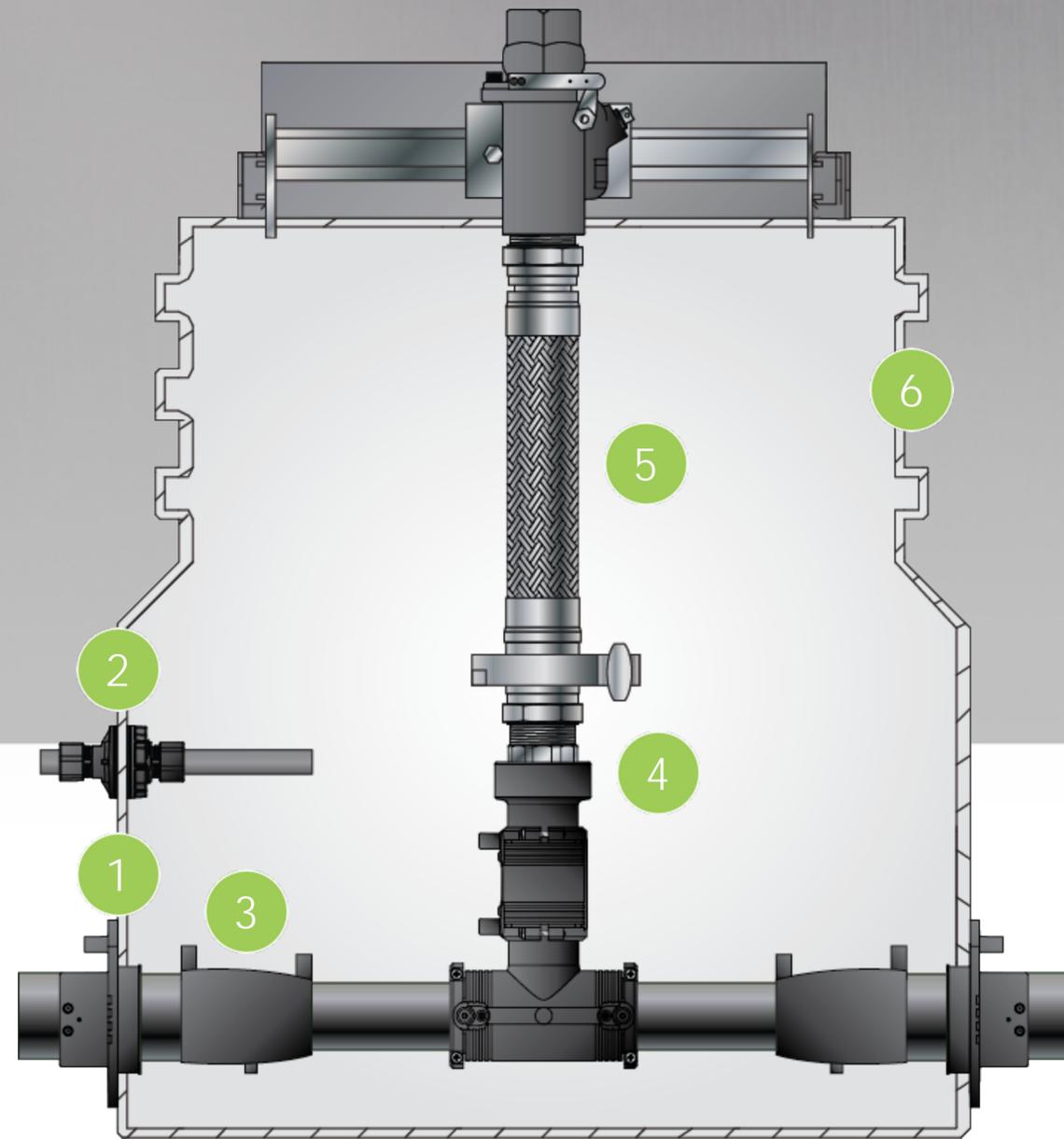
WATERTIGHT SUMP SHIELD

The watertight sump shield features a compression gasket and six toggles to prevent liquid entry.



GEL COAT

The white gel coat interior not only provides superior visibility, but also a vapor and watertight barrier layer of protection.



UPP™ POLYETHYLENE DISPENSER SUMP SYSTEM

The UPP™ brand pipework system utilizes the advanced electrofusion welding process to effectively bond system components including pipework and containment together into one, watertight system.



ELECTROFUSION ENTRY BOOTS



ELECTRICAL CONDUIT RIGID ENTRY BOOTS



REDUCER WITH TEST PORT



TEE & ELBOW FITTINGS



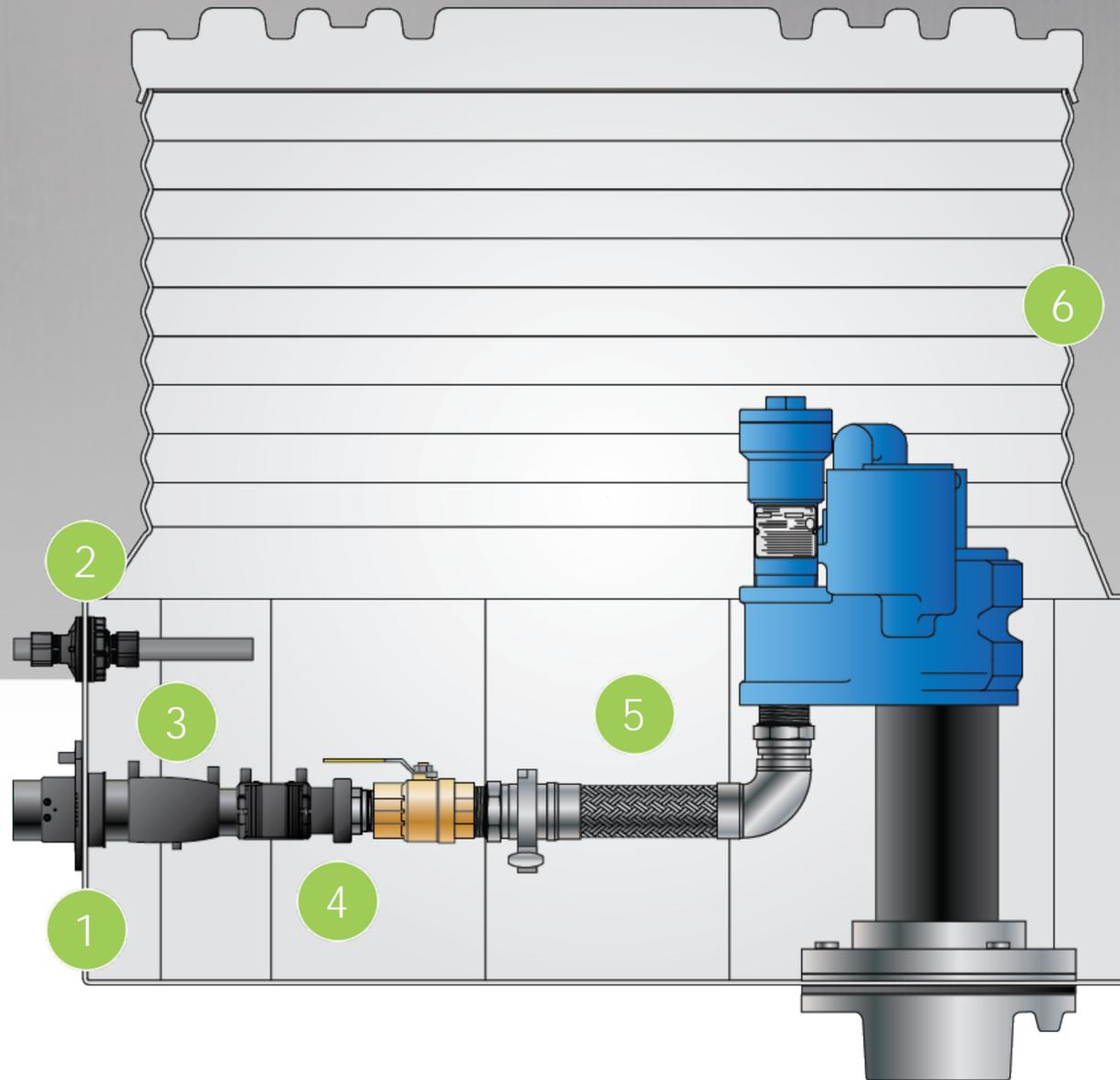
FLEXIBLE CONNECTORS



POLY DISPENSER SUMPS

UPP™ POLYETHYLENE TANK SUMP SYSTEM

The UPP™ electrofusion welding process is safe and simple to complete in any climate and virtually any weather condition. An installer simply preps the components, fits them together attaching welder leads to the fitting, and then presses a single button on a welding unit to initiate the process.



ELECTROFUSION ENTRY BOOTS



ELECTRICAL CONDUIT RIGID ENTRY BOOTS



REDUCER WITH TEST PORT



TEE & ELBOW FITTINGS



FLEXIBLE CONNECTORS



POLY TANK SUMPS



ELECTROFUSION ENTRY BOOTS

These electrofusion entry seals weld directly to the walls of polyethylene sumps to create a watertight seal between the pipework system and the containment sump.



100% WATERTIGHT

The nature of the boot means that, after installation, it becomes one with the sump with zero leak paths and creating a 100% watertight system.



NO MECHANICAL SEALS

The boot is polyethylene based allowing the pipework to be welded directly to the penetration, negating the need for mechanical seals.

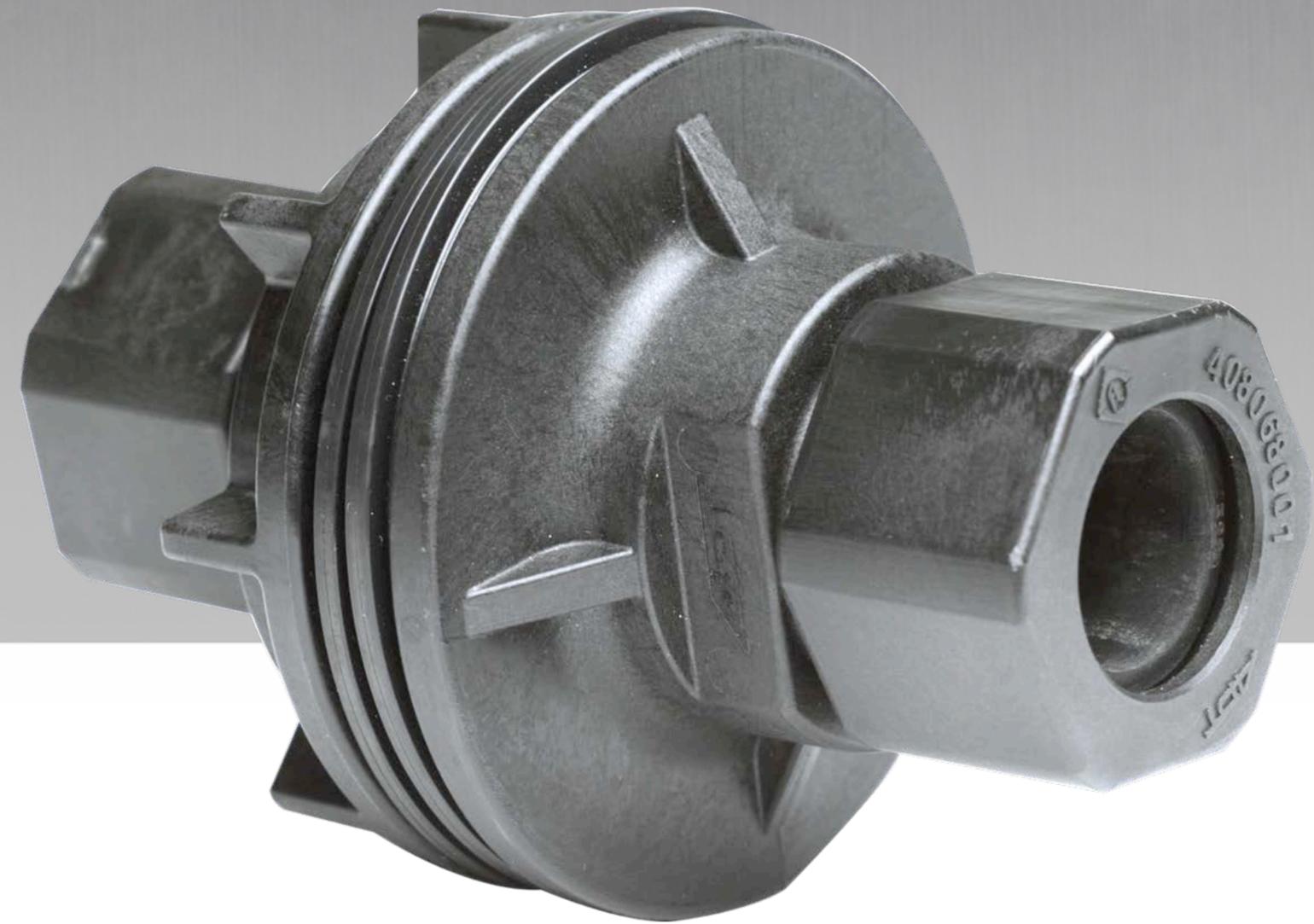


FULLY TESTABLE

With integrated test ports the boot is fully vacuum and pressure testable to verify proper, watertight installation.

ELECTRICAL CONDUIT RIGID ENTRY BOOTS

Allow you to connect both 1" and ¾" electrical conduit to containment sumps with a significant reduction in installation time, while also completely removing exposed rubber from the connection.



FAST ACCURATE INSTALLATION

Requires only a single 2¾" entry hole for installation, eliminating the time-consuming process of drilling multiple holes as well as the templates they require.



WATERTIGHT SEAL

Features a dual-seal design that will provide a watertight seal with either galvanized or coated conduit.



ANY APPLICATION

Suitable for use on flat and round sump surfaces with models available for both ducted and non-ducted applications.



REDUCER FITTING WITH TEST PORT

Reducing from double wall pipe to single wall pipe inside the containment is made simple with the reducer fitting. These fittings feature an integrated test port for integrity testing of secondary contained pipe.



100% WATERTIGHT

The nature of the fitting means that, after installation, it becomes one with the pipe with zero leak paths and creating a 100% watertight system.



SIMPLE PRESSURE TESTING

The integrated Schrader valve gives you easy access for pressure testing, ensuring watertightness throughout the life of the system.



CONTAINMENT MONITORING

With secondary containment monitoring through a fuel management system, you can constantly monitor your entire system through this fitting.

TERMINATION FITTINGS

The end of a piping run can be fitted with a wide variety of termination fittings to accommodate any application while still maintaining that watertight integrity when transitioning from pipe to metallic components.



STRONG BOND

Termination fittings feature an overmolded design which permanently bonds the metal threads of the fitting to an HDPE pipe segment.



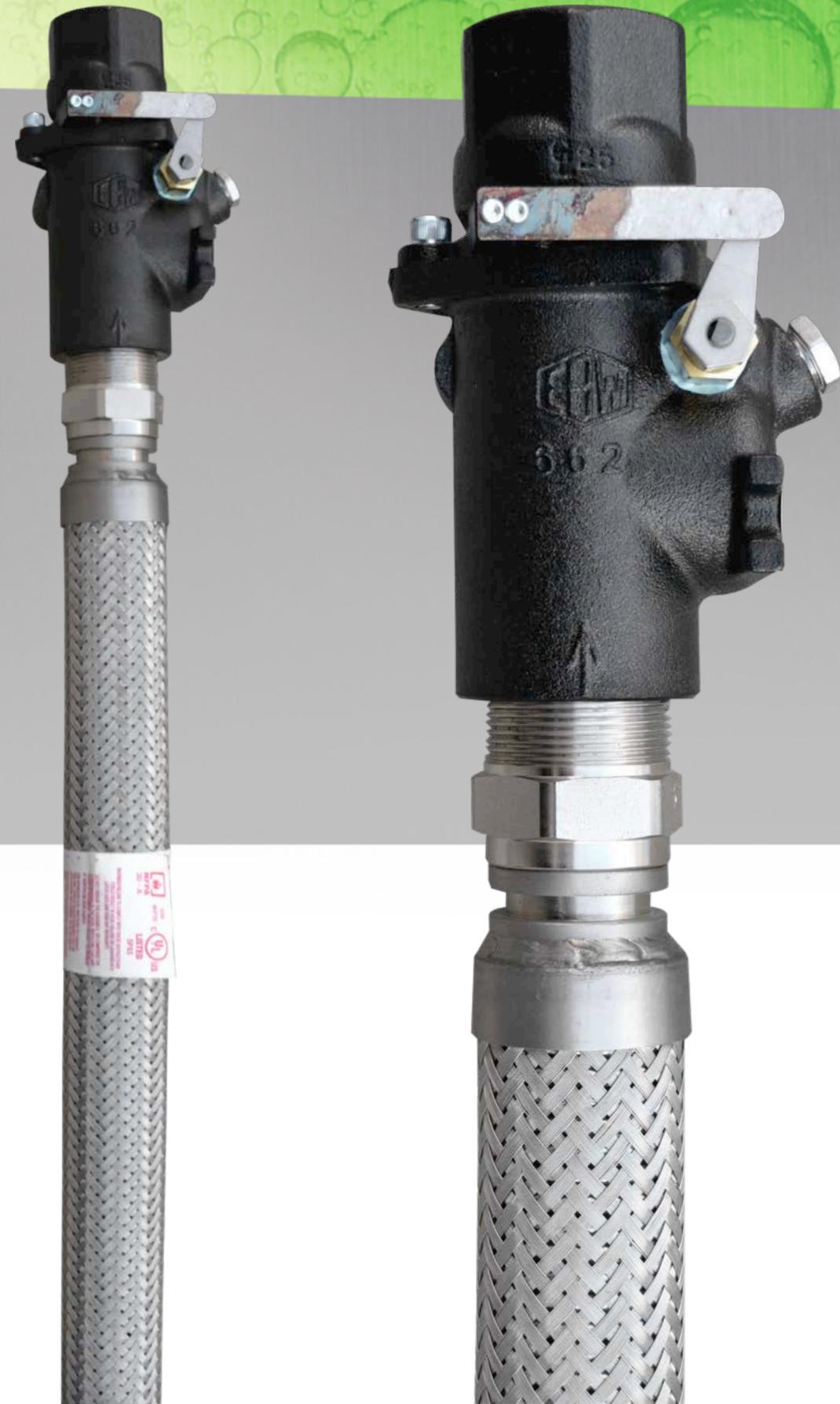
WATERTIGHT TRANSITION

The same electrofusion process is used to create a watertight bond between the pipework and metal termination fitting.



END CONNECTIONS

Available in a multitude of end connections to ensure the right fit for any application – including male, female, and flange.



FLEXIBLE CONNECTORS

Simply and easily connect pipework system to other systems components such as submersible pumps or shear valves.



EASY INSTALL & MAINTENANCE

Installers love their ease of installation while station owners have come to depend on their durability and how easy they make regular maintenance.



END CONNECTIONS

Available in a multitude of end connections to ensure the right fit for any application – including male, female, swivel, and FRP transitions.

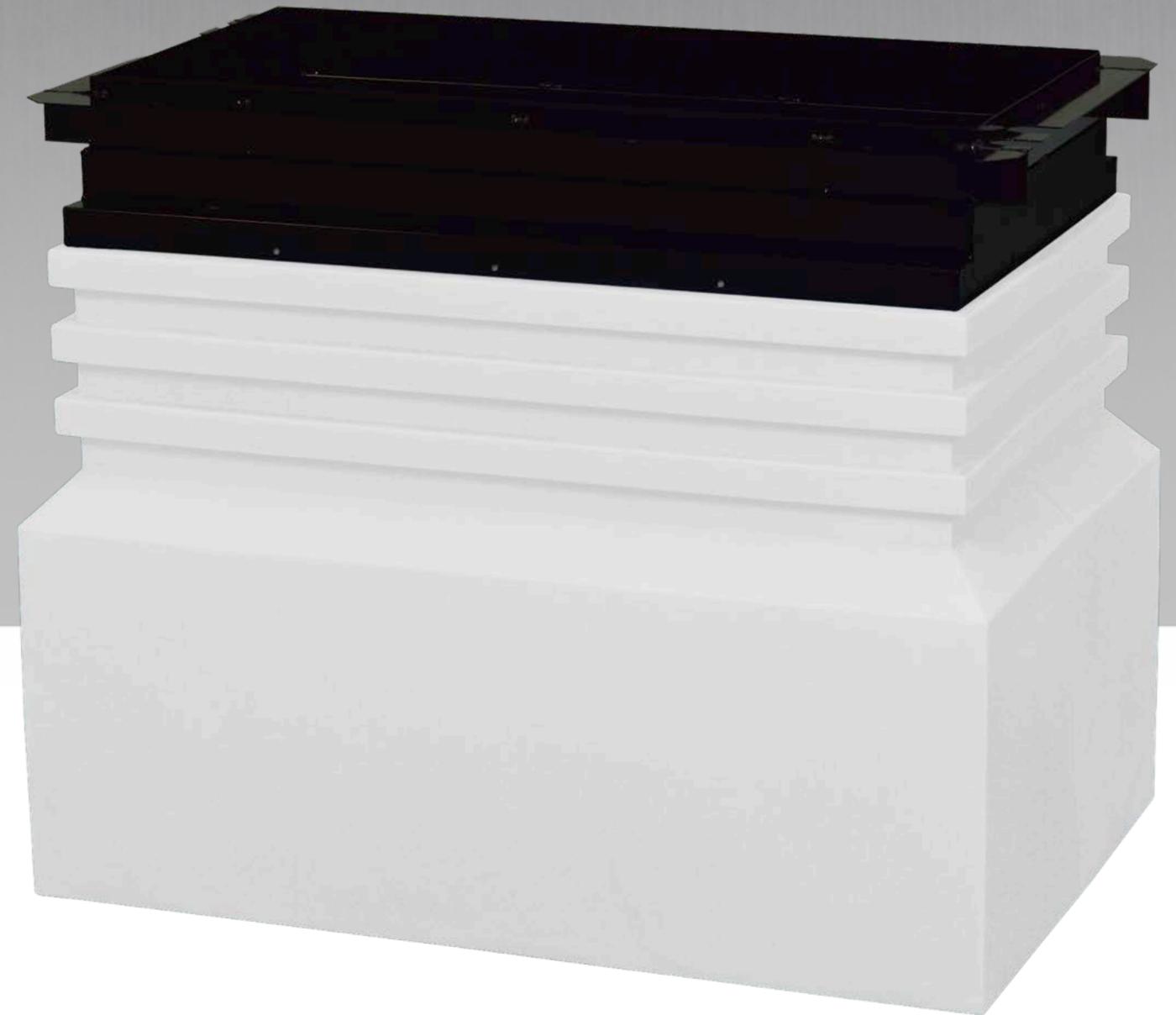


EZ FIT CONNECTIONS

The EZ FIT union style coupling is designed to make connections in confined spaces simple and tight with easy disconnect for maintenance.

POLYETHYLENE DISPENSER SUMPS

Large mouth polyethylene dispenser sumps feature a two-piece modular design and large sump opening to provide easy installation and ample space for under dispenser containment.



FIELD ADJUSTABLE

The ribbed riser can be cut down in 3" increments in the field to adjust sump height and achieve proper pipe slopes to ensure proper 90° sump entry.



ENSURE PROPER INSTALL

The sump base widens to a spacious 26" where entry boots and pipe connections are made to ensure proper installation.



PREVENT WATER ENTRY

Water dam top frame design prevents surface water from entering containment sump.

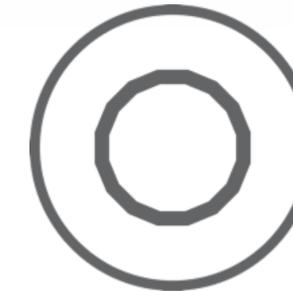
POLYETHYLENE TANK SUMPS

One-piece tank sumps feature a singular, watertight body construction with factory installed, gasketed snap-on lids.



FIELD ADJUSTABLE

The ribbed riser can be cut down in 3" increments in the field to adjust sump height and achieve proper pipe slopes to ensure proper 90° sump entry.



16 SIDE PANELS

Sump base features 16 flat surfaces molded into the bottom section to facilitate 90° entry into the containment sump.



INSPECTION PORT

Each sump offers an optional inspection port for easy viewing of the interior without removal of the lid.



WATER-RESISTANT TANK SUMPS

APT™ brand water-resistant tank sumps feature a water-resistant, gasketed lid with integrated hold-down toggles to prevent liquid from entering into the tank sump. Four lid toggles provide compression between the lid gasket and the riser without the need for any penetrations - eliminating potential leak paths.

Piping & Containment Systems

Highlights

- Durable, yet lightweight polyethylene construction with robust 0.3" (7 mm) wall thickness.
- The ribbed riser provides field height adjustability, allowing the sump to be cut down in 4.3" (110 mm) increments on site using standard tools to easily conform to varying site conditions.
- Available in deep burial [58" (1,471 mm) maximum height, 31.9" (810 mm) minimum height] and medium burial depth [45" (1,140 mm) maximum height, 31.9" (810 mm) minimum height] models.
- Water-resistant, gasketed lid with integrated hold-down toggles prevent liquid from entering into the sump.
- 16 flat pipework entry surfaces surrounding the chamber base ensure proper 90° pipework entry into the chamber.
- Sized to fit under a standard 36" (900 mm) manway.

Specifications

Approvals/Certifications

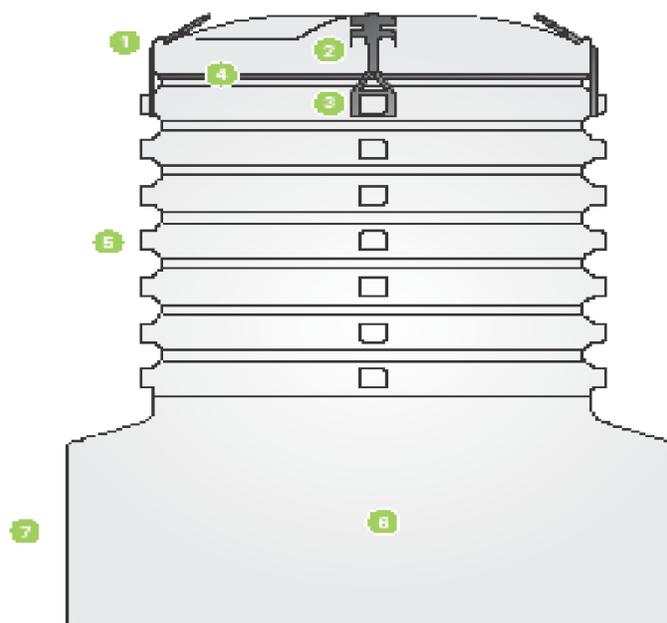
- ULc listed.

Components

- 1 Water-resistant lid
- 2 Lid toggle (qty 4)
- 3 Molded lid toggle peg
- 4 Gasketed seal
- 5 Sump riser
- 6 Sump base
- 7 Flat face panels (qty 16)

Ordering Information

Model	Description
TSM-W-4736	Water-resistant tank sump, medium burial [58" (1,471 mm) maximum height, 31.9" (810 mm) minimum height], 47" (1,192 mm) base, fits 36" (900 mm) manway
TSD-W-4736	Water-resistant tank sump, deep burial [45" (1,140 mm) maximum height, 31.9" (810 mm) minimum height], 47" (1,192 mm) base, fits 36" (900 mm) manway





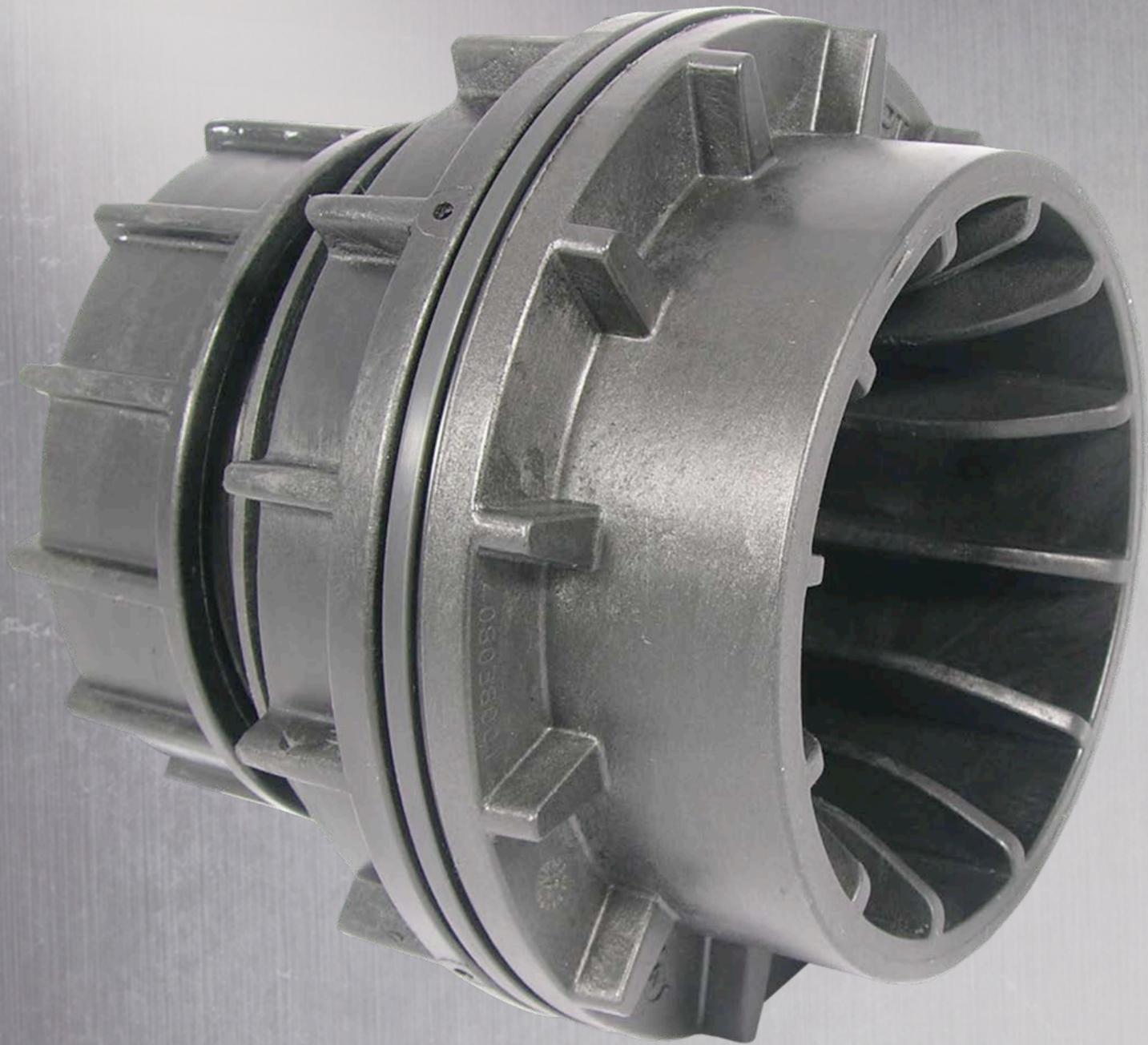
REMEMBER THIS

- ✓ Effective sump entry is crucial to ensuring a true watertight containment system.
- ✓ Ensuring a 90° angle for pipework into containment spaces is vital to eliminate leak paths.
- ✓ Eliminating additional threaded components or additional threaded connections eliminates potential leak paths.
- ✓ Ample working space inside containment spaces will lend to better, more accurate and watertight installations.
- ✓ Once in place, testing and continuously monitoring a system is key to ensuring a long service life.



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