Tank Sump Catalog





Diversified Products Manufacturing, Inc.

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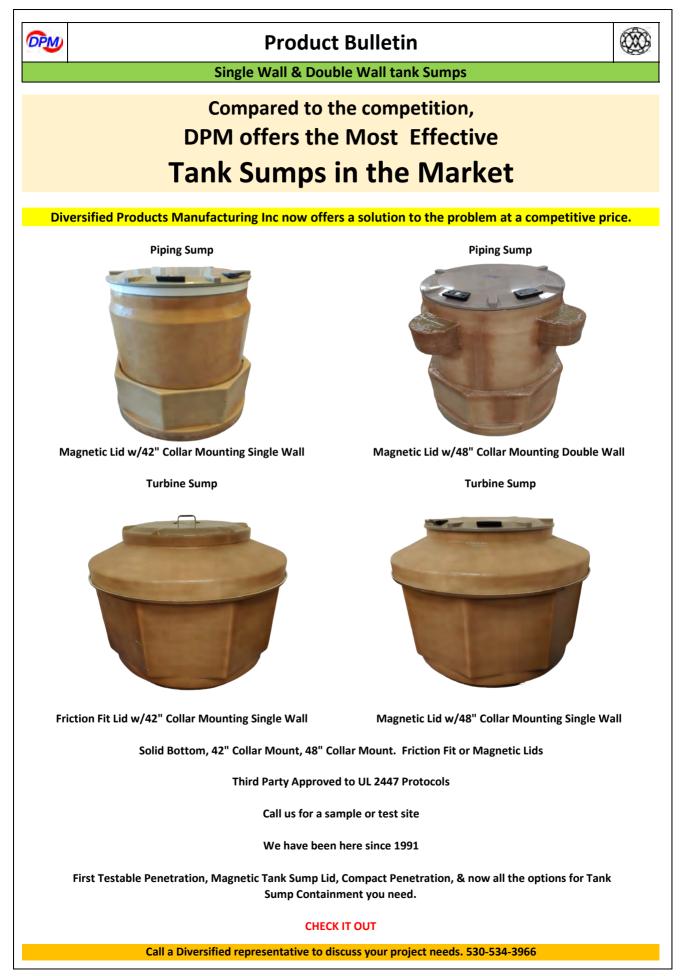




"Better By Desígn"

Cost Effective Piping and Turbine Sumps

DPM



September 2023



Adjustable Height Tank Sumps

Tank Sump Single Wall Adjustable Height 30"-50 1/2"

	Part #	Description	List Price
	SU-TSFA-FL-42	Tank Sump Adjustable, Friction Fit Lid 42" Collar Mount	\$2,210.96
	SU-TSFA-FL-48	Tank Sump Adjustable, Friction Fit Lid 48" Collar Mount	\$2,210.96
	SU-TSFA-FL-BM	Tank Sump Adjustable, Friction Fit Lid Bung Mount	\$2,210.96
	SU-TSFA-MA-42	Tank Sump Adjustable, Magnetic Attractor 42" Collar Mount Order Magnetic Lid Separately	\$3,943.71
	SU-TSFA-MA-48	Tank Sump Adjustable, Magnetic Attractor 48" Collar Mount Order Magnetic Lid Separately	\$3,943.71
SU-TSFA-MA-48	SU-TSFA-MA-BM	Tank Sump Adjustable, Magnetic Attractor Bung Mount Order Magnetic Lid Separately	\$4,819.53

Tank Sump Double Wall Adjustable Height 30"-50 1/2"



SU-M

SU-TSFA

SU-TSA

DPM

Part #	Description	List Price
SU-TSFA-FL-42-DW	Tank Sump Adjustable, Friction Fit Lid 42" Collar Mount Brine Shipped Loose	\$7,543.61
SU-TSFA-FL-48-DW	Tank Sump Adjustable, Friction Fit Lid 48" Collar Mount Brine Shipped Loose	\$7,543.61
SU-TSFA-FL-BM-DW	Tank Sump Adjustable, Friction Fit Lid Bung Mount Brine Shipped Loose	\$7,543.61
SU-TSFA-MA-42-DW	Tank Sump Adjustable, Magnetic Attractor 42" Collar Mount Order Magnetic Lid Separately. Brine Shipped Loose	\$8,243.61
SU-TSFA-MA-48-DW	Tank Sump Adjustable, Magnetic Attractor 48" Collar Mount Order Magnetic Lid Separately. Brine shipped Loose	\$8,243.61
SU-TSFA-MA-BM-DW	Tank Sump Adjustable, Magnetic Attractor Bung Mount Order Magnetic Lid Separately, Brine Shipped Loose	\$8,243.61

Magnetic Lids & Tank Sump Accessories

Part #	Description	List Price
SU-ML	Magnetic Lid Mates to Tank Sumps	\$2,795.87
	with Magnetic Attractors	
SU-TSFA-EXT	Extension for large Tank Sump 24" Long	\$1,450.00
SU-TSFA-EXT-DW	Double Wall Extension for large Tank Sumps	\$2,400.00
SU-SMK-25R	Sensor Mounting Kit with Tube Support	\$75.00
	(removable sensor)	
SU-TSA	Tank Sump Adaptor	\$315.00
	Used on sumps with Bung Mounting	
SU-TSA-Tool	Tank Sump Adaptor Tool	\$254.43
SU-SRA	DPM Sensor Riser Cap for sealing interstice wiring	\$80.19

September 2023



Large Tank Sumps

Large Tank Sump Single Wall Depth of Bury 46 1/2" with 24" Extensions Available

	Part #	Description	List Price
	SU-TKSF-FL-42	Tank Sump Adjustable, Friction Fit Lid 42" Collar Mount Includes Friction fit Lid	\$2,595.43
	SU-TKSF-FL-48	Tank Sump Adjustable, Friction Fit Lid 48" Collar Mount Includes Friction fit Lid	\$2,595.43
	SU-TKSF-FL-BM	Tank Sump Adjustable, Friction Fit Lid Bung Mount Includes Friction fit Lid	\$2,595.43
	SU-TKSF-MA-42	Tank Sump Adjustable, Magnetic Attractor 42" Collar Mount Order Magnetic Lid Seperately	\$6,755.00
	SU-TKSF-MA-48	Tank Sump Adjustable, Magnetic Attractor 48" Collar Mount Order Magnetic Lid Seperately	\$6,755.00
SU-TKSF-MA	SU-TKSF-MA-BM	Tank Sump Adjustable, Magnetic Attractor Bung Mount Order Magnetic Lid Seperately	\$6,755.00

Tank Sump Double Wall Depth of Bury 46 1/2" with 24" Extensions Available

_	Part #	Description	List Price
	SU-TKSF-FL-42-DW	Tank Sump Adjustable, Friction Fit Lid 42" Collar Mount	\$8,366.11
	SU-TKSF-FL-48-DW	Tank Sump Adjustable, Friction Fit Lid 48" Collar Mount	\$8,366.11
	SU-TKSF-FL-BM-DW	Tank Sump Adjustable, Friction Fit Lid Bung Mount	\$8,366.11
	SU-TKSF-MA-42-DW	Tank Sump Adjustable, Magnetic Attractor 42" Collar Mount Order Magnetic Lid Seperately	\$9,066.11
	SU-TKSF-MA-48-DW	Tank Sump Adjustable, Magnetic Attractor 48" Collar Mount Order Magnetic Lid Seperately	\$9,066.11
SU-TKSF-FL	SU-TKSF-MA-BM-DW	Tank Sump Adjustable, Magnetic Attractor Bung Mount Order Magnetic Lid Seperately	\$9,066.11

Magneitc Lids & Tank Sump Accessories

Part #	Description	List Price
SU-ML	Magnetic Lid Mates to Tank Sumps with Magnetic Attractors	\$2,795.87
SU-TKSF-Ext	Extension for large Tank sump 24" Long	\$1,450.00
SU-TKSF-Ext-DW	Extension for large Tank sump 24" Long Double Wall	\$2,400.00
SU-SMK-25R	Sensor Mounting Kit with Tube Support	\$75.00
SU-TSA	(removable sensor) Tank Sump Adaptor Used on sumps with Bung Mounting	\$315.00
SU-TSA-Tool	Tank Sump Adaptor Tool	\$254.43
SU-TKSF-Ext SU-TKSF-Ext SU-TSA-Tool	DPM Sensor Riser Cap for sealing interstice wiring	\$80.19
	iversified Products Manufacturing ggett Marysville Road Oroville CA 95965	



FGC Series Penetrations

Fiberglass Penetrations for Flex & NOV Pipe "No Rubber in the Sump" for DPM Single & Double Wall Sumps Direct Burial



Part #	Description	List Price
PF-FGC-1.18-DB	Compact Fiberglass Penetration for OPW-C075A	
PF-FGC-1.27-DB	Compact Fiberglass Penetration for APT-XP-100-D	
PF-FGC-1.47-DB	Compact Fiberglass Penetration for APT-XP-100-SC	
PF-FGC-1.50-DB	Compact Fiberglass Penetration for OPW-C10A	
PF-FGC-1.70-DB	Compact Fiberglass Penetration for APT-XP-150-D	
PF-FGC-1.90-DB	Compact Fiberglass Penetration for APT-XP-150-SC	
PF-FGC-2.00-DB	Compact Fiberglass Penetration for OPW-C15A	\$146.96
PF-FGC-2.15-DB	Compact Fiberglass Penetration for APT-XP-175-D	\$140.90
PF-FGC-2.38-DB	Compact Fiberglass Penetration for NOV 2" Single Wall Pipe	
PF-FGC-2.45-DB	Compact Fiberglass Penetration for OPW-C20A & APT XP-200-D	
PF-FGC-2.65-DB	Compact Fiberglass Penetration for APT-XP-200-SC	

Note for OmegaFlex DoubleTrac Products refer to our OmegaFlex Catalog

Fiberglass Penetrations for Flex & NOV Pipe "No Rubber in the Sump" for DPM Single & Double Wall Sumps used with Corrugated Duct

Part #	Description	List Price
PF-FGC-1.18-CD	Compact Fiberglass Penetration for OPW-C075A	
PF-FGC-1.27-CD	Compact Fiberglass Penetration for APT-XP-100-D	
PF-FGC-1.47-CD	Compact Fiberglass Penetration for APT-XP-100-SC	
PF-FGC-1.50-CD	Compact Fiberglass Penetration for OPW-C10A	
PF-FGC-1.70-CD	Compact Fiberglass Penetration for APT-XP-150-D	
PF-FGC-1.90-CD	Compact Fiberglass Penetration for APT-XP-150-SC	
PF-FGC-2.00-CD	Compact Fiberglass Penetration for OPW-C15A	\$208.98
PF-FGC-2.15-CD	Compact Fiberglass Penetration for APT-XP-175-D	
PF-FGC-2.45-CD	Compact Fiberglass Penetration for OPW-C20A & APT XP-200-D	
PF-FGC-2.65-CD	Compact Fiberglass Penetration for APT-XP-200-SC	
Note for Omega	aFlex DoubleTrac Products refer to our OmegaFlex Catalog	

Diversified Fiberglass Bonder & Cleaner for Fiberglass Penetrations and Repair Kits

	Part #	Description	List Price
	CH-DFB-50ml	50ml Cart Set Epoxy Fiberglass Bonder for Fiberglass Penetrations	\$104.12
		includes one CH-DSM-V Static Mixer. Use with CH-DAG-III and CH-DSM-V	
	CH-DSM-V	Static Mixer for use with CH-DBF-50ml	\$15.76
		This is a fast curing Product. Additional Static Mixers may be required.	
	CH-DAG III	Plastic Applicator Gun for use with 50ml Cartridge Sets	\$142.49
Fiberglass Epoxy	CH-DAG III M	Metal Applicator Gun	\$192.50
Piberglass choxy		for use with 50ml Cartridge Sets	
	CH-DBC II	Diversified Bulkhead Cleaner for use prior to bonding	\$20.36
CH-DBC-II Cleaner			
		\$50 Hazmat	
		fee on air No Shipping Restrictions	
		shipments	
One E0 ml Cartrida	a Sat for overy 4 fitting	shipments	
-		shipments	od
-		shipments	ed.
-		shipments gs if installing -DB series in the field. ery 4 fittings when water tight seals on Corrugated Duct Systems are requir	ed.
-	ml Cartridge set for eve	shipments	ed.

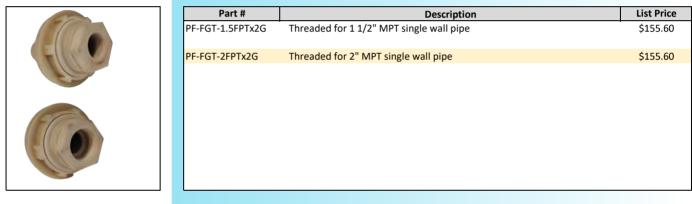


FGT Series Penetrations

Fiberglass Penetrations for NOV Pipe "No Rubber in the Sump" for DPM Single & Double Wall Sumps

Tapored for 2" or 3" Part #	Description	List Price
PF-FGT-2NOVx2G	Threaded for 2" Single Wall Pipe also see compact fittings	\$162.28
2" or 3" Sanitary	Threaded for 3" Single Wall Pipe also see compact fittings	\$168.00
PF-FGT-2LCXx2G	Threaded for 2" LCX Double Wall Pipe with test and drain ports	\$162.28
PF-FGT-3LCXx3G	Threaded for 3" LCX Double Wall Pipe with test	\$212.14
2" or 3" FPT	and drain ports	
PF-FGT-3x2G	Threaded for 3" over 2" Double Wall Pipe over Pipe with test and drain Ports	\$180.00
PF-FGT-4x3G	Threaded for 4" over 3" Double Wall Pipe over Pipe	\$212.44
	with test and drain ports	

Fiberglass fittings for Above Ground UDC's with Hex head and no test or drain ports



Diversified Fiberglass Bonder & Cleaner for Fiberglass Penetrations and Repair Kits

	Dout #		List Duise
	Part #	Description	List Price
DPM	CH-DFB-50ml	50ml Cart Set Epoxy Fiberglass Bonder for Fiberglass Penetrations	\$104.12
		includes one CH-DSM-V Static Mixer. Use with CH-DAG-III and CH-DSM-V	
	CH-DSM-V	Static Mixer for use with CH-DBF-50ml	\$15.76
and the set		This is a fast curing Product. Additional Static Mixers may be required.	
	CH-DAG III	Plastic Applicator Gun	\$142.49
		for use with 50ml Cartridge Sets	
	CH-DAG III M	Metal Applicator Gun	\$192.50
Fiberglass Epoxy		for use with 50ml Cartridge Sets	
DBC II Novreas classifi	CH-DBC II	Diversified Bulkhead Cleaner for use prior to bonding	\$20.36
122			·
CH-DBC-II Cleaner			
		_	
		\$50 Hazmat	o Shipping
			o Shipping estrictions
	A	shipments V	estrictions
			~
		Diversified Products Manufacturing	(MAR)
DPM		aggett Marysville Road Oroville CA 95965	
	530-534-3966 - wwv	v.dpm-co.com - Order Entry Email: sales@dpm-llc.com	



UDC Sump Accessories

Bonded Conduit Entry Fittings



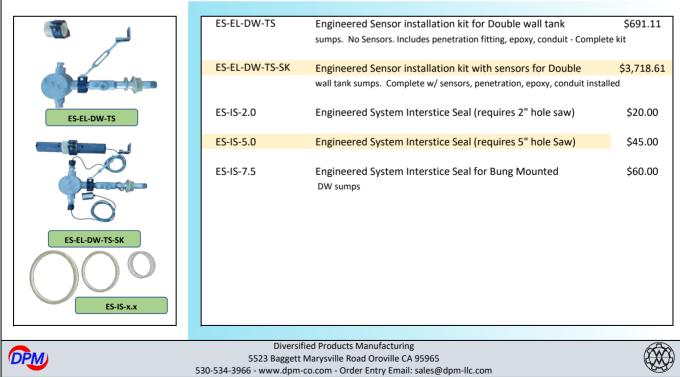
Part #	Description	List Price
PF-BC-1.1	Bonded counuit fitting for 3/4" Rigid Conduit	\$33.68
PF-BC-1.4	Bonded conduit fitting for 1" Rigid Conduit	\$33.68

Electronic Sensors and Sensor Mounting Kits for Single Wall Sumps



Part #	Description	List Price		
ES-EL-SW-TS	Engineered Sensor installation kit for Single wall tank	\$680.00		
	sumps. No Sensors. Includes penetration fitting, epoxy, conduit - Comp	lete kit		
ES-EL-SW-TS-SK	Engineered Sensor installation kit with sensors for Single	\$3 <i>,</i> 056.63		
	wall tank sumps. Complete w/ sensors, penetration, epoxy, conduit inst	alled		
SU-SMK-1.9	Sensor Mounting Kit for VR 208 Sensors	\$24.47		
SU-SMK-2.5R	Sensor Mounting Kit for 208 sensors mounted inside	\$75.00		
	a fiberglass tube for easy removal of the sensor			
Note: Sensor mounting kits for single wall sumps may be ordered for field installation or may be factory installed. Sumps may be aligned in the field for convenient electrical and piping installation.				

Electronic Sensors and Sensor Mounting Kits for Double Wall Sumps







"Better By Desígn"

Adjustable Octagonal Fiberglass Single Wall Tank Sump

Technical Data Sheet

Diversified's Adjustable Tank Sumps are not just another box. These sumps are designed to mount on any 42 or 48 collar or may be bung mounted. Adjustable tank sumps are available with a friction fit lid for dry climates or with Diversified's unique Magnetic Lid. Sumps are split with a base for easy piping access and a riser to meet depth of burial requirements. Depth of burial may be accomplished by cutting down from 50 1/2" to 30" for shallow burials or by extending the height up to 22" with each extension. These tanks sumps are ideal for piping applications.





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Large Octagonal Fiberglass Single Wall Tank Sump

Technical Data Sheet

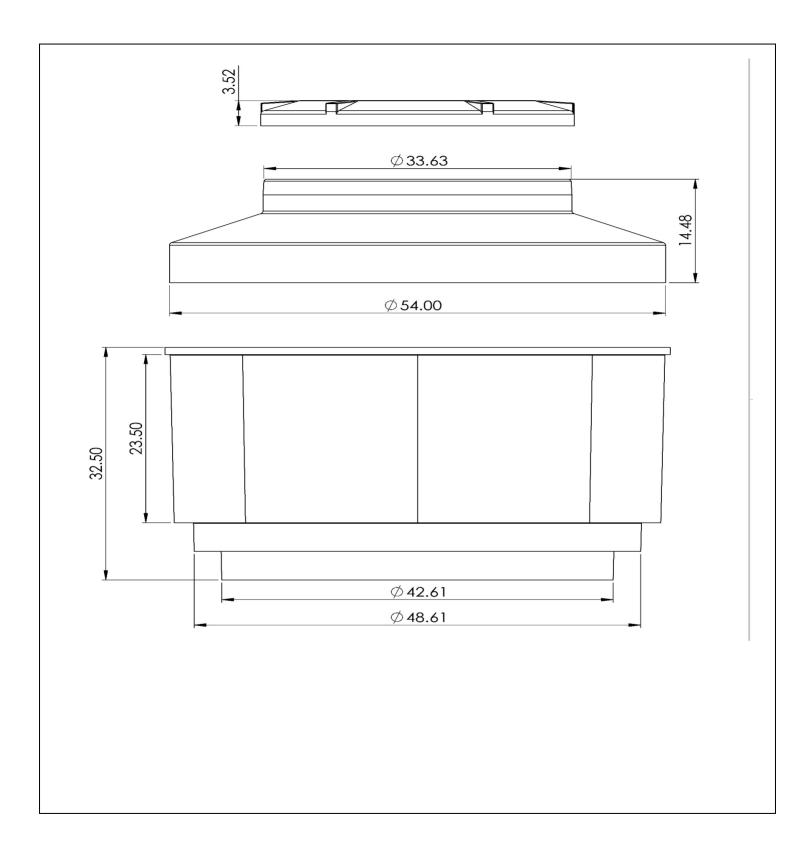
Diversified's Large Tank Sumps are not just another box. These sumps are designed to mount on any 42 or 48 collar or may be bung mounted. Large tank sumps are available with a friction fit lid for dry climates or with Diversified's unique Magnetic Lid. Sumps are split with a base for easy piping access and a riser to meet depth of burial requirements. Depth of burial may be increased up to 22" with each extension installed. These tanks sumps are ideal for turbine applications.

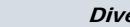


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September 2023





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Extensions for Single Wall Fiberglass Tank Sumps

Technical Data Sheet

Diversified's Extensions provide the contractor the ability to extend the tank mounted sump for burials deeper than the standard 48". Extensions are bonded to the sump base and have a top suitable for bonding to the sumps normal riser. Extensions are 22-24" Long and are bonded to the base and accept the riser on the top.



Manufactured from virgin Isophthaulic Resins and fiberglass.

Third Party tested and Listed to UL 2447 Protocols

Available for Adjustable or Large tank sump bases.

Suitable for bonding to both the standard sump base and standard sump riser.

Extensions may be cut to extend the burial a few inches up to 22".

Extensions may be stacked to achieve significant dept of bury. Contact the factory for details.

Order extensions with the sump or individually





Third Party Approvals

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	Turbine Sumps	А	В
Single Wall	SU-TKSF-Ext	54"	22"
Double Wall	SU-TKSF-EXT-DW	54"	22"
	Piping Sumps	А	В
Single Wall	SU-TSFA-EXT	36"	22"
Double Wall	SU-TSFA-EXT-DW	36"	22"



"Better By Desígn"

Adjustable Octagonal Fiberglass Double Wall Tank Sump

Technical Data Sheet

Diversified's Adjustable Tank Sumps are not just another box. These sumps are designed to mount on any 42" or 48" collar or may be bung mounted. Adjustable tank sumps are available with a friction fit lid for dry climates or with Diversified's unique Magnetic Lid. Sumps are split with a base for easy piping access and a riser to meet depth of burial requirements. Depth of burial may be accomplished by cutting down from 50 1/2" to 30" for shallow burials or by extending the height up to 22" with each extension. These tanks sumps are ideal for piping applications.



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Manufactured from virgin Isophthaulic Resins and fiberglass.

Third Party tested and Listed to UL 2447 Protocols.

Available for 42" Collar Mount, 48" Collar Mount and Bung Mounting applications.

Choice of Lids, Friction Fit for dry locations and Diversified's unique Magnetic Lid for wet & underwater locations.

Eight flat panels for easy piping out of the sump. Adjustable from 30" to 50 1/2" depth of bury and may be extended with DPM's riser extension.

Fill and vacuum ports located outside service area of sump riser.

Pressurized interstice enhances leak detection on a sump failure.

Removable interstice sensor standard.

Optional Sensor Mounting Kit SU-SMK-2.5R houses Veeder Root 208 Sump sensors.

Optional Sensor Riser Kit SU-SRK seals the alarm sensor riser on Double wall Tanks.

Optional Bung Mounting Kit with no exposed metal from tank top to Sump. SU-TSA.

Third Party Approvals

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Large Octagonal Fiberglass Double Wall Tank Sump

Technical Data Sheet

Diversified's Large Double Wall Tank Sumps are not just another box. These sumps are designed to mount on any 42 or 48 collar or may be bung mounted. Large tank sumps are available with a friction fit lid for dry climates or with Diversified's unique Magnetic Lid. Sumps are split with a base for easy piping access and a riser to meet depth of burial requirements. Depth of burial may be accomplished by extending the height up to 22" with an extension. These tanks sumps are ideal for turbine applications.



(DPM)





"Better By Design"

Extensions for Double Wall Fiberglass Tank Sumps

Technical Data Sheet

Diversified's Extensions provide the contractor the ability to extend the tank mounted double wall sump for burials deeper than the standard 48". Extensions are bonded to the sump base and have a top suitable for bonding to the sumps normal riser. Extensions are 22-24" Long and are bonded to the base and accept the riser on the top.



Manufactured from virgin Isophthaulic Resins and fiberglass.

Third Party tested and Listed to UL 2447 Protocols.

Available for Adjustable or Large tank sump bases.

Suitable for bonding to both the standard double wall sump base and standard double wall sump riser.

Extensions may be cut to extend the burial a few inches up to 22".

Extensions may be stacked to achieve significant dept of bury. Contact the factory for details.

Order extensions with the sump or individually.



DPN

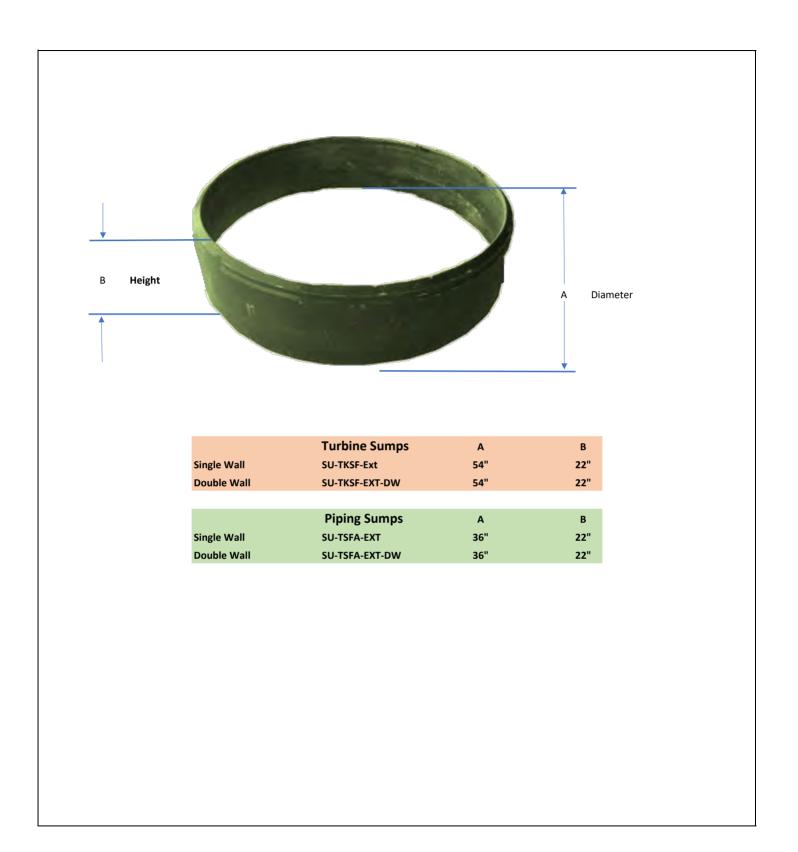




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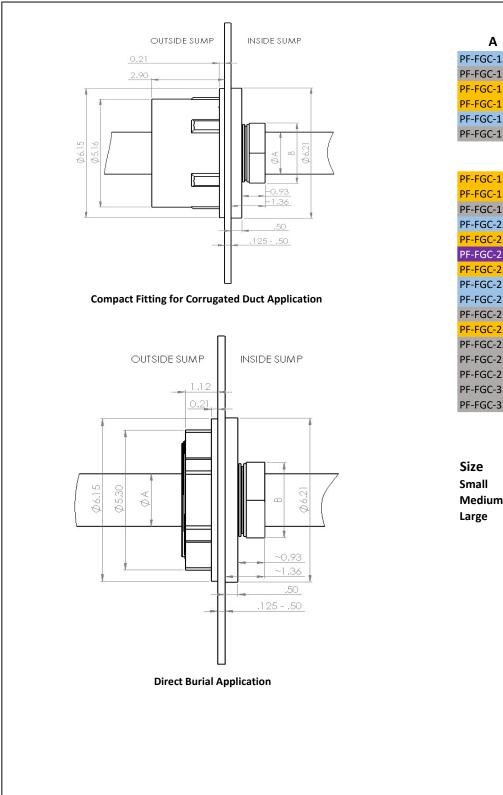
Diversified Products Manufacturing "Better By Design"



Technical Data Sheet

Since the introduction of EPA regulations for Underground Storage Tanks in 1988, there has been a need for Penetration Fittings that will last as long as the tanks. For flex pipe, the fitting must allow the pipe to be replaceable without breaking ground and there must be no "rubber" products inside the sump. DPM has the answer with the introduction of its "Compact" series of penetrations for Flex Pipe, Semi Rigid, and Rigid Fiberglass Pipe. The Compact Penetration Fitting assures the site owner that this cost will never be experienced again. Millions of repair dollars can be avoided in future budgets where these fittings are installed.





Α	Mfg	Pipe
PF-FGC-1.18	OPW	C-075A
PF-FGC-1.22	Brugg	CHT 21/31
PF-FGC-1.27	APT	XP-100-D
PF-FGC-1.47	APT	XP-100-SC
PF-FGC-1.50	OPW	C-10A
PF-FGC-1.50	Brugg	CHT 30/38
PF-FGC-1.70	APT	XP-150-D
PF-FGC-1.90	APT	XP-150-SC
PF-FGC-1.90	Brugg	HL 30/48
PF-FGC-2.00	OPW	C-15A
PF-FGC-2.15	APT	XP-175-SC
PF-FGC-2.38	NOV	Red Thread
PF-FGC-2.45	APT	XP-200-D
PF-FGC-2.45	OPW	C-20A
PF-FGC-2.45	OPW	#
PF-FGC-2.50	Brugg	SEC 40
PF-FGC-2.65	APT	XP-200-SC
PF-FGC-2.65	Brugg	CHT 48/60
PF-FGC-2.80	Brugg	CHT 60/71
PF-FGC-2.80	Brugg	HL 48/71
PF-FGC-3.00	Brugg	SEC 50
PF-FGC-3.30	Brugg	HL 60/83
Size Small Medium	B 3.18" 4.03"	
Large	4.05	



Diversified Products Manufacturing "Better By Design"

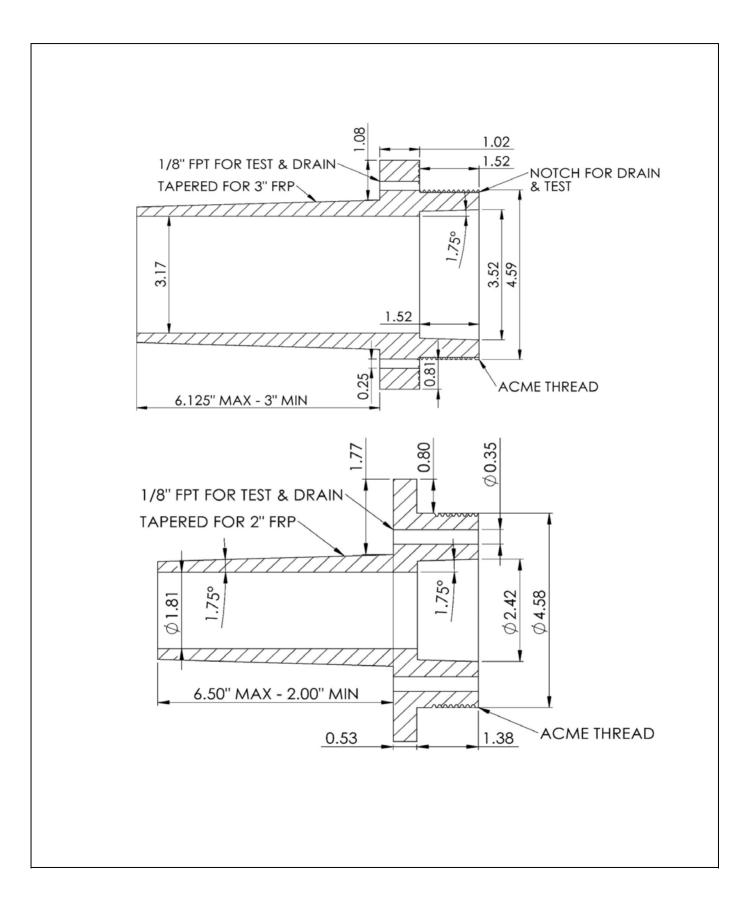


"FGT" Series Fiberglass Penetrations

Technical Data Sheet

Since the introduction of EPA regulations for Underground Storage Tanks in 1988, there has been a need for Penetration Fittings that will last as long as the tanks. DPM has the answer with the introduction of its "FGT" series of penetrations for Rigid Fiberglass Pipe. The FGT Penetration Fitting assures the site owner that costs associated with repairing failed rubber components will never be experienced again. Millions of repair dollars can be avoided in future budgets where "FGT" fittings are installed.





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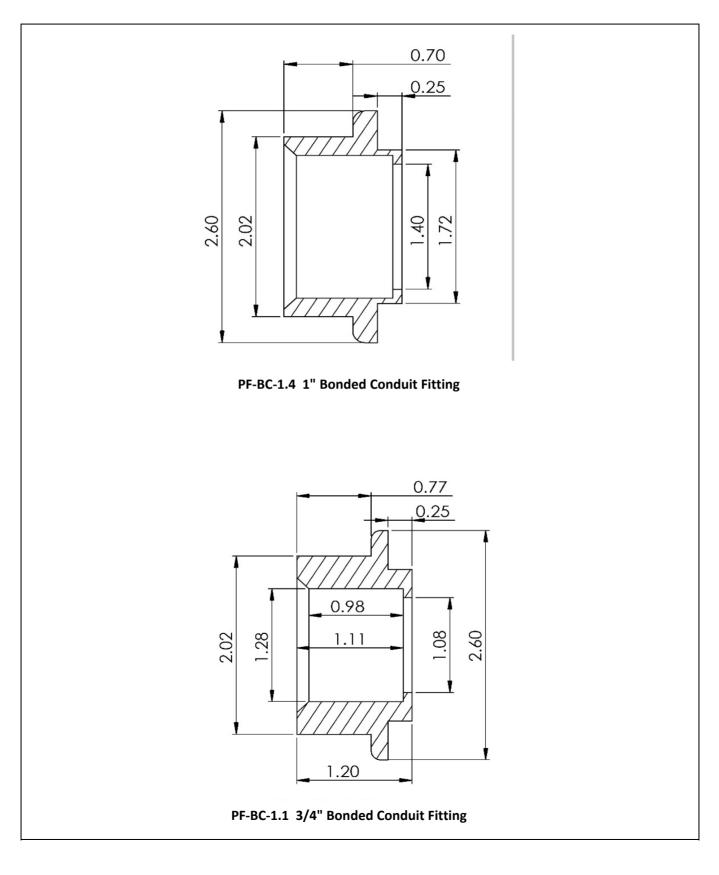


"BC" Series of Bonded Conduit entry fittings

Technical Data Sheet

Since the introduction of EPA regulations for Underground Storage Tanks in 1988, there has been a need for Penetration Fittings that will last as long as the tanks. DPM has an answer with the conduit penetrations, the PF-BC Series of penetrations for Rigid Steel Pipe. There are no rubber components assuring the site owner that costs associated with repairing failed rubber components will never be experienced again. Millions of repair dollars can be avoided in future budgets where "BC" conduit fittings are installed.





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Diversified Products Manufacturing "Better By Design"



Sensor Mounting Kits & Installed Sensors

Technical Data Sheet

Since the introduction of EPA regulations for Underground Storage Tanks in 1988, there has been a need for the installation of alarm sensors and sensor mounting kits. DPM has the answers. Alarm sensors are available to match the alarm system being provided. These sensors are installed and wired in several configurations. For those providing their own sensors a convenient sensor mounting kit is available for direct purchase or mounting over the unique alarm cup in Diversified's sumps.





"Better By Design"

Magnetic Lids for Diversified's Fiberglass Tank Sumps

Technical Data Sheet

Diversified's Unique Magnetic Lids keep sumps dry. These lids have been installed for over 10 years without a reported leak. Some lids have been submerged in the southern states for extended periods and have survived this incredibly difficult often flooded environment. No twist seals to tear. Lifetime magnets assure at least 30 year survival. Integrated vent to relieve potential pressure build up. Installed from the deep south to Alaska.



RTM Molded from virgin Isophthaulic Resins and

Third Party tested and Listed to UL 2447 Protocols

Fits both the Adjustable or Large Tank sumps.

Retrofit lids with adaptors available for all sump risers.

A continuous vent membrane is installed on all lids. The membrane is both hydrophobic and oleophobic. (Will not let water or carbon fuel penetrate the membrane)

Handles are required to break the seal that requires greater then 30 ft lb. to break the seal.

The fuel resistant seal may be replaced with Diversified's net exchange program.

No twisting, no bolts no, no latches. Easy to remove and reinstall.

Permanent instructions on procedures to replace lid after removal.

Third Party Approvals



DPM



Diversified Products Manufacturing 5523 Baggett Marysville Road Oroville CA 95965 530-534-3966 - www.dpm-co.com - Order Entry Email: sales@dpm-llc.com



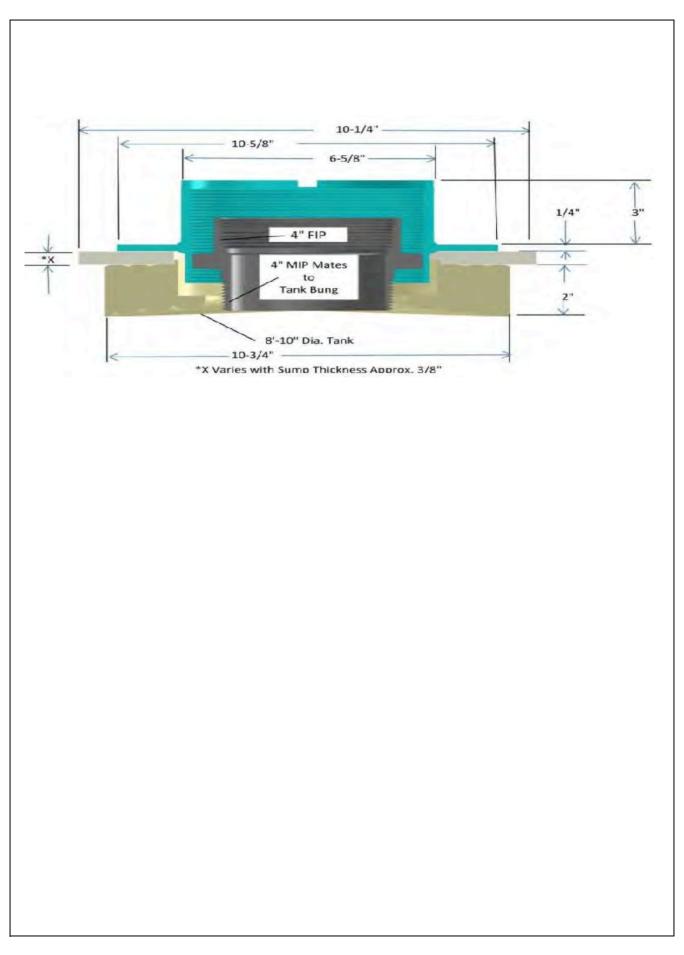
"Better By Desígn"

Tank Sump Adaptors for Tank Sumps

Technical Data Sheet

Most new tanks are installed with collars for mounting the sump. The remaining installations rely of a tank sump adaptor Kit. Diversified brings to market the only kit that totally covers all the exposed metal from bung to the bottom of the tank sump. The seal is manufactured to UL 2447 protocols. The balance of the kit components are powder coated steel.





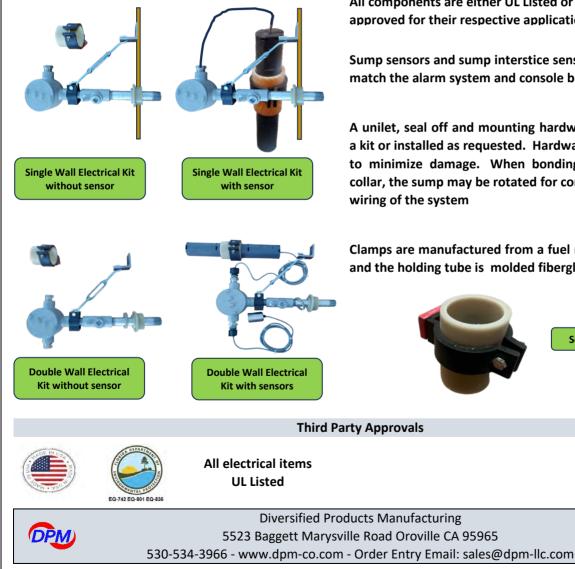


"Better By Desígn"

Electronic Sensors for Single Wall and Double Wall Tank Sumps

Technical Data Sheet

Electronic sensors are often installed by an electrical contractor. The installation of hardware and wiring often is performed after the plumbing. Diversified's sumps are laid out to compliment the piping system and are installed so not to conflict with future maintenance needs and space requirements. All Diversified sumps may be ordered with the electronics installed or with a sensor mounting kit. Diversified's bung mounted tank sumps all have flat floors. The sensor mounting kit is intended to mount over the deepest spot in the sump. Diversified provides clamps for all sizes of sensors and also features a holding tube for easy sensor removal or may be hard piped with Unilet and seal offs. Note some components have been rotated for Presentation.



All components are either UL Listed or third party approved for their respective applications.

Sump sensors and sump interstice sensors are available to match the alarm system and console being installed.

A unilet, seal off and mounting hardware are provided in a kit or installed as requested. Hardware includes support to minimize damage. When bonding the sump to the collar, the sump may be rotated for convenient piping and

Clamps are manufactured from a fuel rated thermoplastic and the holding tube is molded fiberglass.



Sensor Mounting Kit



Diversified Products Manufacturing "Better By Desígn"

Diversified Bulkhead Cleaner CH-DBC II and Fiberglass **Bonder CH-DFB**

Technical Data Sheet

Diversified's product offering includes a class of products we call Chemicals. These chemicals have been tested with our repair and new construction producs and have been listed as being compliant with UL 2447 protocols. The approval letters are attached at the end of each of our catalogs. Whenever a chemical bond is required the surfaces should be cleaned before bonding. CH-DBC II Cleaner and CH-DFB Fiberglass Bonder are companion products designed to be used together.



HMIS Hazard Rating				
0-Mineral	A-Goggles			
1-Slight	B-Goggles, gloves			
2-Moderate	C-Goggles, Gloves			
3-Severe	Protective Wear			
Health	2			
Flammability	3			
Reactivity	0			
Protective Wear	В			

Color			
Odor			
Odor Threshold			
Specific Gravity			
Initial Boiloing Point			
Freezing Point			
Vapor Pressure			
Evaporation Rate			
Solubility			
Coefficient of water/oil Distribution			
рН			
Stability			

Non Chlorinated Aerosol for use on Diversified's fiberglass & thermoplastic new construction and repair products

Removes Silicon residue left after the injection molded Products.

Effective Cleaner for Fiberglass and HDPE sumps

Contains Heptane Isomers, Acetone and Carbon Dioxide is a flammable Aerosol and is under Pressure

Clear Colorless Solvent N/D 0.78 132 F
N/D 0.78
0.78
132 F
< 100 F
N/D
Fast
Slightly Soluble in water
N/`D
N/A
Stable

CH-DFB is a thixotropic two component epoxy adhesive that is resistant to fuels and ethanols.

Tested for use on DPM's Fiberglass products, Aluminum, **Steel and Stainless Steel.**

Fast curing at room temperature

Should be stored in a refrigerator or air conditioned vehicle prior to use.

See next page for properties

\$50 Hazmat

fee on air shipments

CH-DFB & CH-DBC

Third Party Approvals

CH-DSM-V





Products Used on this Project

Diversified Products Manufacturing 5523 Baggett Marysville Road - Oroville CA. 95965 USA 530-534-3966 - www.dpm-co.com - 530-534-7404 Order Entry Fax

September 2023

DPM

CH-DFB

DPM

Diversified Products Manufacturing "Better By Design"



Technical Data Sheet

This page contains data for the CH-DFB Epoxy Bonder Only

Product Ch	aracteristics	Environme	ntal Resistance
Technology	Cyanoacrylic/Eposy		% of Initia
Chemical type (Part A)	Cyanoacrylate	Environment	Deg C
Chemical type (Part B)	Ероху	Water	22
Appearance (Comp A)	Straw Color	Water	60
Appearance (Comp B)	Off-White	Motor Oil	40
Appearance Mixture	Light Yellow	Water/Glycol 50/50	87
Components	Two-Part Requires Mixing	Gasoline (unleaded)	22
Mix Ration by Weight	Resin 1: Hardener 1	Ethanol	22
Mix Ration by volume	Resin 1: Hardener 1	Isopropanol	22
Viscosity	High	98% RH	40
Cure	Room Temp after Mixing	96% RH	65
Secondary Cure	Heat		
Application	Bonding		
Specific Benefits	Non-Sag slump resistant		
	Very Fast Cure		
	Easy to Mix		
	Easy to Dispense		
	Resistance to		
	Automotive Fluids		

Properties of Uncured Materials		Properties of Uncured Materials		d Materials
Part A		Part B		
Specific Gravity @ 25 C	1.01	Specific Gravity @	25 C	1.06
Viscosity @ 25 C	4000-7000	Viscosity @	25 C	25,000 - 40,000
Flash Point	See SDS	Flash Point		See SDS

Properties of C	Prope	
Cured for one		
Shore Hardnes "D"	65-69	La
Glass Trans Temp 0 C	88	Aluminum
Elongation	3.5	Aluminur
Tensil Strength	7.1 N/mm2	Zinc Ch
Tensil Modulus	565 N/mm2	Stainles
·		Δι

Properties of Uncured Materials				
Cured for 168 hrs @ 22 C				
Lap Shear Strength, ISO 4587				
Aluminum Degreased	7.6 N/mm2			
Aluminum Etched	13 N/mm2			
Zinc Chromate	9.1 N/mm2			
Stainless Steel	15 N/mm2			
ABS	5.2 N/mm2			
Polycarbonate	6.9 N/mm2			
Wood (Oak)	4.8 N/mm2			
Ероху	9.1 N/mm2			
Polyethylene	.5 N/mm2			

Products Used on this Project

Third Party Approvals



Diversified Products Manufacturing 5523 Baggett Marysville Road - Oroville CA. 95965 USA 530-534-3966 - www.dpm-co.com - 530-534-7404 Order Entry Fax

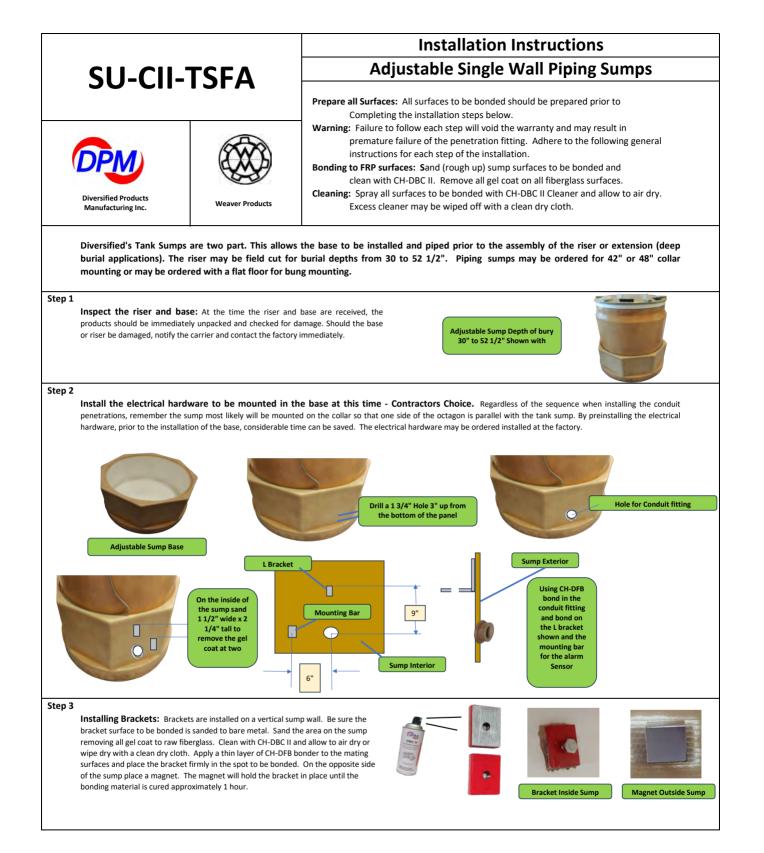
% of Initial Strength 100 h

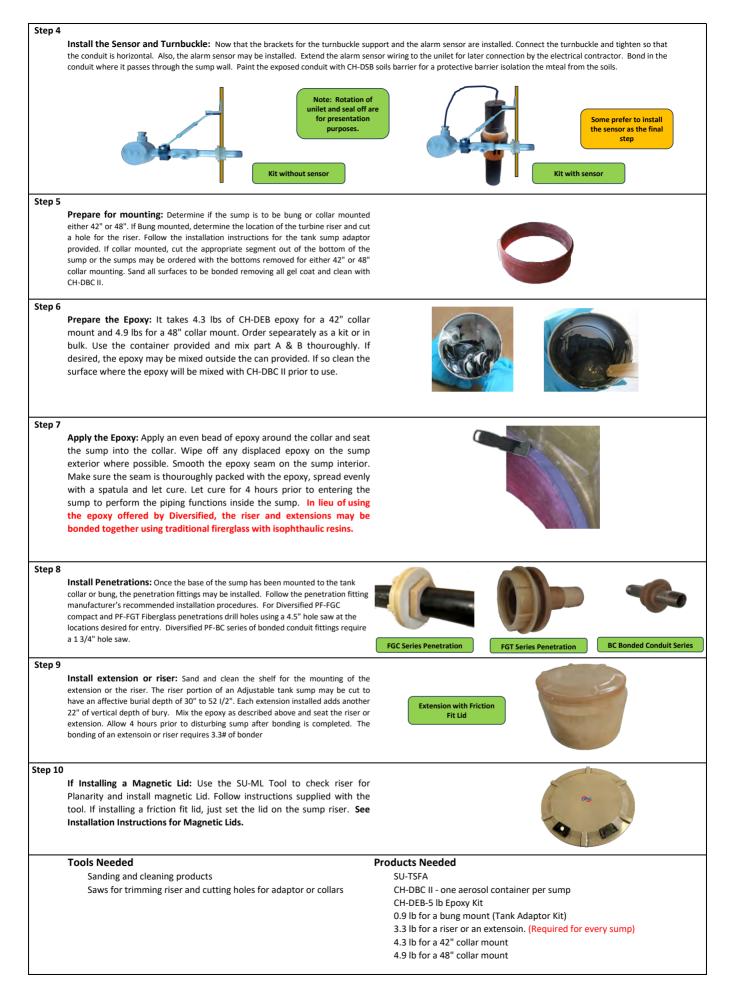
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95

September 2023

DPM









SU-CII-TKSF-EXT & SU-CII-TSFA-EXT







Installation Instructions Single Wall Tank Sump Extensions

Prepare all Surfaces: All surfaces to be bonded should be prepared prior to Completing the installation steps below.

Warning: Failure to follow each step will void the warranty and may result in premature failure of the penetration fitting. Adhere to the following general instructions for each step of the installation.

Bonding to Poly & FRP surfaces: Sand (rough up) sump surfaces to be bonded and clean with CH-DBC II. Remove all gel coat on all fiberglass surfaces. Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and allow to air dry. Excess cleaner may be wiped off with a clean dry cloth.

Diversified Products

Diversified's Tank Sump Extensions are available for direct burial applicatioins. Diversified extensions are approximately 24" tall. Extensions are the larger diameter of the tank sump (approximately 54") and are generally mounted in the field. The top of the extension is configured of accept the standard sump riser assembly shipped as part of the sump. For bonding the extension, order the bulk epoxy seperately. Risers may be cut to any length in the field. Multiple extensions may be stacked. Instructions shown are for the SU-TKSF-Ext. The procedure is the same for the SU-TSFA-EXT

Step 1

Inspect the extension: At the time the extension is received, the products should be immediately unpacked and checked for damage. Should the base or riser be damaged, notify the carrier and contact the factory immediately.



Extension with friction fit lid

Step 2

Preparations for installation: Determine if the extension is to be modified to a shorter length. If so, visibly mark the extension 360 degrees and cut to length. Sand and clean the surface to be bonded to the sump base for 1" above the bottom. Sand and clean the mating part of the sump base. Spray both surfaces with CH-DBC II. Allow surfaces to air dry or wipe dry with a clean dry cloth.





Step 3

Mix the epoxy: It takes 3.3 lb. of CH-DEB epoxy to bond the extension to the base. Order separately as a kit or in bulk. Use the container provided and mix part A & B thoroughly. If desired, the epoxy may be mixed outside the can provided. If so clean the surface where the epoxy will be mixed with CH-DBC II prior to use.







Apply the Epoxy: Apply an even bead of epoxy around the sump and seat the sump onto the tank sump bottom. Wipe off any displaced epoxy on the sump exterior where possible. Smooth the epoxy seam on the sump interior. Make sure the seam is thouroughly packed with the epoxy, spread evenly with a spatula and let cure. Let cure for 4 hours prior to entering the sump to perform the piping functions inside the sump.

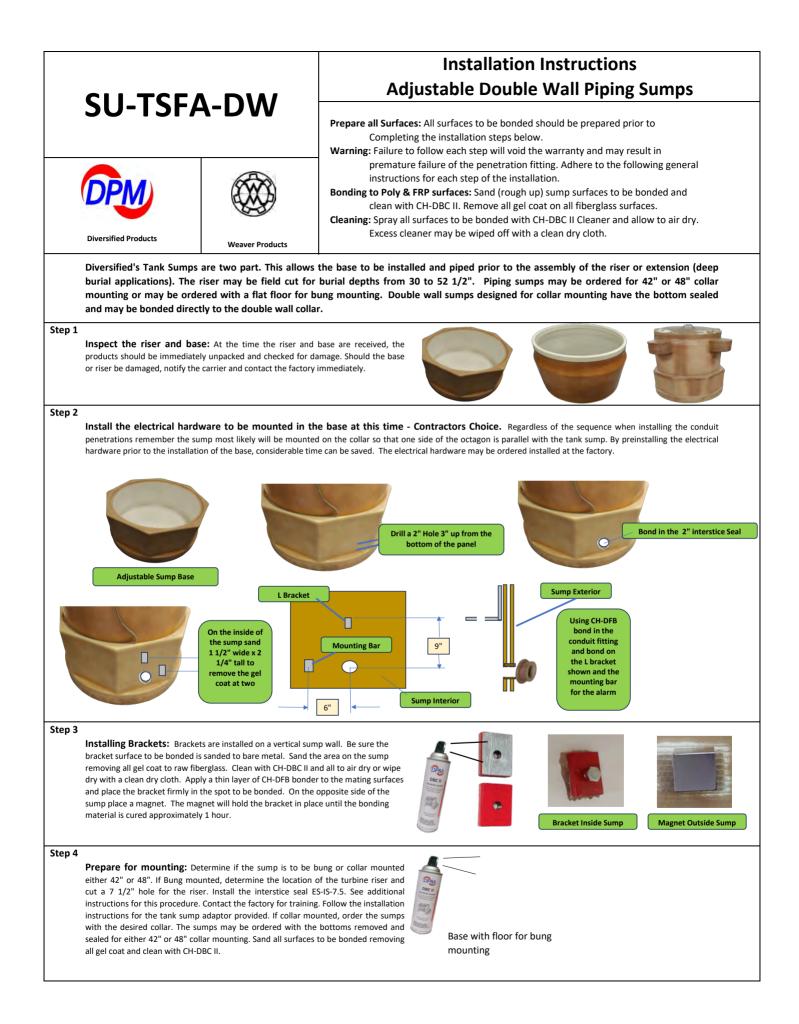
Step 5

Seat the Extension: Seat the extension into the epoxy. Let the extension rest on the shelf of the base and spread the epoxy displaced evenly around the interior and exterior of the extension. Wait 4 hours before installing the riser to the top of the extension.



Step 6 Install the Riser: Follow the same steps for applying the epoxy to the riser. Seat the Riser. Step 7 Install the Lid: If a friction fit lid just seat it on the riser. If a magnetic Lid, use the SU-ML Tool, check riser for Planarity and install magnetic Lid. Follow instructions supplied with the tool. **Tools Needed Products Needed** SU-TKSF Tank Sanding and cleaning products Saws for trimming riser and cutting holes for adaptor or collars SU-TKSF-Ext - Extension CH-DBC II - one aerosol container per sump CH-DEB-5 lb Epoxy Kit 0.9 lb for a bung mount (Tank Adaptor Kit) 3.3 lb for a riser or an extensoin. (Required for every sump)

4.3 lb for a 42" collar mount 4.9 lb for a 48" collar mount



Step 5

Mount the sump base: If bung mounted follow the instructions provided with the tank sump adaptor. If Collar mounted, sand all surfaces to be bonded and clean with CH-DBC II. Attention: Orientate the 8 sided base so lines entering the sump will be perpendicular to the sump wall.

Step 6

Prepare the Epoxy: It takes 4.3 lbs. of CH-DEB epoxy for a 42" collar mount and 4.9 lbs. for a 48" collar mount. Order separately as a kit or in bulk. Use the container provided and mix part A & B thoroughly. If desired, the epoxy may be mixed outside the can provided. If so clean the surface where the epoxy will be mixed with CH-DBC II prior to use.

Step 7

Apply the Epoxy, Sump Base to Collar: Apply an even bead of epoxy around the collar and seat the sump onto the tank collar or tank Sump adaptor. Wipe off any displaced epoxy on the sump exterior where possible. Smooth the epoxy seam on the sump interior. Make sure the seam is thoroughly packed with the epoxy, spread evenly with a spatula and let cure. Let cure for 4 hours prior to entering the sump to perform the piping functions inside the sump. Repeat for the exterior seal.

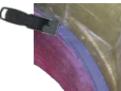




Mount the Base to the Collar

Apply Epoxy





Sand

Install

5" OD Interstice Seal

Clean

2" OD Interstice Seal for

Bonded conduits

Step 8

Install the interstice seals and penetration fittings: Once the Base has been installed on the collar or tank sump adaptor, the penetration fittings should be installed. First, install the Interstice Seals. For Penetration fittings use a 5" hole saw with integral sanding disc (PF-HSS-5.0) and install the interstice seal ES-IS-5.0. Use CH-DFB epoxy bonder to seal the interstice seal to the sump wall. Be sure the interstice seal is flush to the inside of the sump wall. Should the interstice seal extend beyond the surface of the sump, it will need to be sanded until flush with the outside of the sump. The inside diameter of the interstice seal is 4 1/2" and is designed to mate to Diversified's PF-FGT fiberglass penetrations or the PF-FGC line of compact fiberglass penetrations. For conduit penetrations use interstice seal ES-IS-2.0 with a 2" hole saw with sanding Disc PF-HSS-2.0. Diversified penetrations are designed to perfectly fit into and bond to their respective interstice seals. Penetration fittings may be installed at this time or at a later date should the site progress be interrupted. Prior to installing the penetrations lightly sand the interstice seal and around the seal for about 1" . Remove all debris and foreign matter. Clean with CH-DBC II. Let air dry or wipe dry with a clean dry cloth. Install the penetrations in acccordance with their installation instructions. Follow these steps for installing interstice seals for the electrical power and sensor penetrations. See additional instructions for hole saws with Sanding Discs.

Step 9

Install the Piping: Note Step 9 may be performed prior to step 7. Once the base and penetration fittings are installed the system is ready for piping. The base is Octagonal and should be oriented so that lines penetration the sump are perpendicular to the sump's wall. When the piping is complete and tested, the riser and extension(s) may be installed. Follow instructions provided with the penetration fittings including conduits.

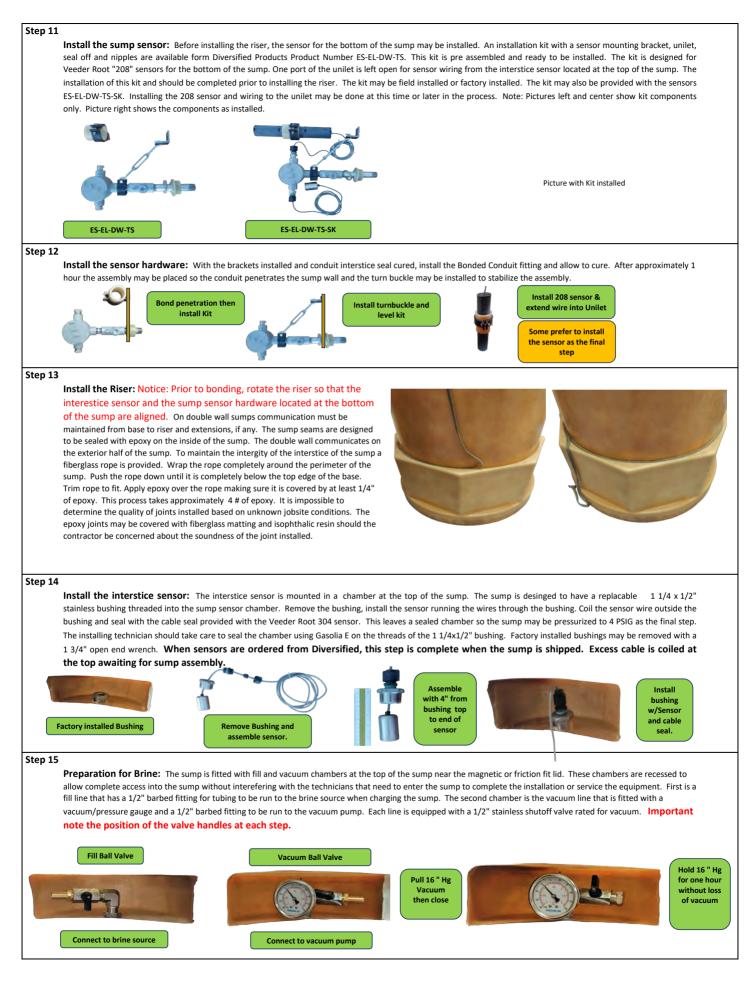




Step 10

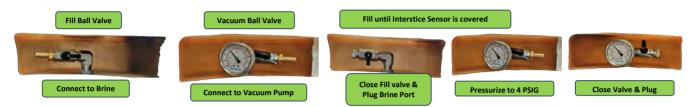
Electronics: Double wall sumps have an interstice sensor that is located at the top of the sump and a second sensor located at the bottom of the sump. Generally these are connected by one conduit system leading to the outside of the sump near the bottom of the sump. The contractor may elect to make this penetration at any elevation on the sump. The contractor may also elect to make two penetrations one for each sensor. Diversied offers a very cost effective low profile "Bonded Conduit Fitting". Where possible this fitting should be used to penetrate the sump wall for alarm sensors and power wiring. The fittings are available for 3/4" and 1" rigid conduits. Install the Bonded conduit penetrations at the locations selected. Follow instructions provided with the fittings. Shown at the right are two examples of the bonded conduit fittings with rigid conduit nipples installed.





Step 16

Test Sump for Tightness and install Brine: If no leaks are detected, extend the fill line to the brine source. Slowly open the fill and vacuum valves and start the vacuum pump. Vacuum in brine until the instertial sensor is completely covered with brine. Shut off both valves. Note: if the contractor is supplying the interstice sensor, it should be installed earlier in the process so that the sensor seal is verified tight. Once the brine is at the correct location, stop the vacuum pump, remove the fill line and barbed fitting. Install a plug on the ball valve and turn the fill ball valve off. Remove the vacuum line and connect to a pressurized air source. Slowly bleed 4 PSIG into the sump interstice, close the valve, remove the barbed fitting, shutoff the valve and plug the line. Verify there are no leaks at the fill or vacuum lines. Warning: Do not over pressurize.

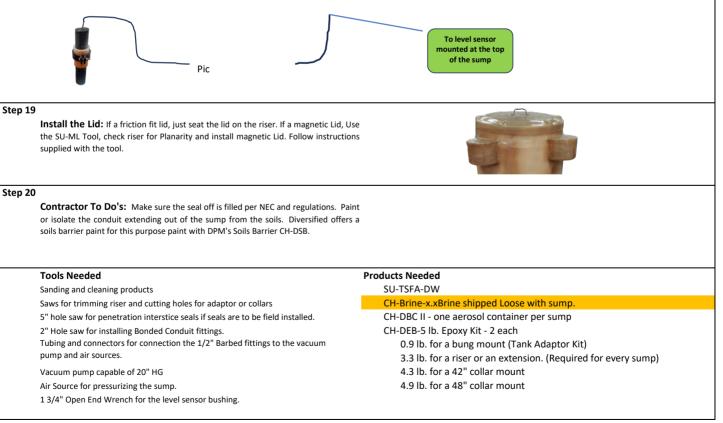


Step 17

Final Steps: The coiled interstice low level alarm sensor (Veeder Root 304) wiring needs to be run to the outside of the sump. The wiring should be run either to the assembly offered by DPM near the bottom of the sump, or to whatever exit point the contractor has selected. The "208" sump sensor needs to be installed and also run to the outside of the sump. Power wiring needs to be brought into the sump and connected in accordance with applicable codes. The following procedures are followed by Diversified when providing and installing kits or kits with sensors. Should the contractor provide sensors and or penetrations, interstice seals must be used or the warranty is voided.

Step 18

Connect the alarm sensors: Run the alarm cable from the level sensor at the top of the sump to the bottom of the sump and install into the unilet port reserved for that purpose. A unilet, a seal off and rigid piping are installed near the bottom of the tank sump. Conduit is extended to the sump exterior and is also connected to the sump alarm sensor. Coil the remaining cable in the unilet for eventual connection to the alarm system. Note: If the contractor is providing the Sump alarm sensor and wiring, care needs to be taken so the installation instructions provided herein are followed.





Step 5

Mount the sump base: If bung mounted follow the instructions provided with the tank sump adaptor. If Collar mounted, sand all surfaces to be bonded and clean with CH-DBC II. Attention: Orientate the 8 sided base so lines entering the sump will be perpendicular to the sump wall.

Step 6

Prepare the Epoxy: It takes 4.3 lbs. of CH-DEB epoxy for a 42" collar mount and 4.9 lbs. for a 48" collar mount. Order separately as a kit or in bulk. Use the container provided and mix part A & B thoroughly. If desired, the epoxy may be mixed outside the can provided. If so clean the surface where the epoxy will be mixed with CH-DBC II prior to use.

Step 7

Apply the Epoxy, Sump Base to Collar: Apply an even bead of epoxy around the collar and seat the sump onto the tank collar or tank Sump adaptor. Wipe off any displaced epoxy on the sump exterior where possible. Smooth the epoxy seam on the sump interior. Make sure the seam is thoroughly packed with the epoxy, spread evenly with a spatula and let cure. Let cure for 4 hours prior to entering the sump to perform the piping functions inside the sump. Repeat for the exterior seal.





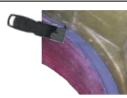
5" OD Interstice Seal

Clean

Mount the Base to the

Apply Epoxy

Collar



Sand

Step 8

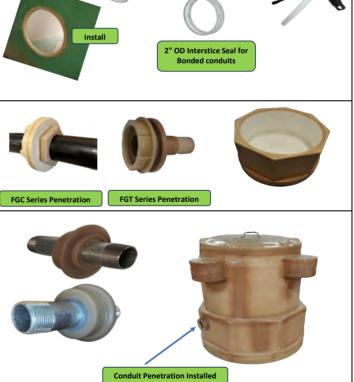
Install the interstice seals and penetration fittings: Once the Base has been installed on the collar or tank sump adaptor, the penetration fittings should be installed. First, install the Interstice Seals. For Penetration fittings use a 5" hole saw wirh integral Sanding disc (PF-HSS-5.0) and install the interstice seal ES-IS-5.0. Use CH-DFB epoxy bonder to seal the interstice seal to the sump wall. Be sure the interstice seal is flush to the inside of the sump wall. Should the interstice seal extend beyond the surface of the sump, it will need to be sanded until flush with the outside of the sump. The inside diameter of the interstice seal is 4 1/2" and is designed to mate to Diversified's PF-FGT fiberglass penetrations or the PF-FGC line of compact fiberglass penetrations. For conduit penetrations use interstice seal ES-IS-2.0 with a 2" hole saw with sanding Disc PF-HSS-2.0. Diversified penetrations are designed to perfectly fit into and bond to their respective interstice seals. Penetration fittings may be installed at this time or at a later date should the site progress be interrupted. Prior to installing the penetrations lightly sand the interstice seal and around the seal for about 1". Remove all debris and foreign matter. Clean with CH-DBC II. Let air dry or wipe dry with a clean dry cloth. Install the penetrations in acccordance with their installation instructions. Follow these steps for installing interstice seals for the electrical power and sensor penetrations. See additional instructions for hole saws with Sanding Discs.

Step 9

Install the Piping: Note Step 9 may be performed prior to step 7. Once the base and penetration fittings are installed the system is ready for piping. The base is Octagonal and should be oriented so that lines penetration the sump are perpendicular to the sump's wall. When the piping is complete and tested, the riser and extension(s) may be installed. Follow instructions provided with the penetration fittings including conduits.

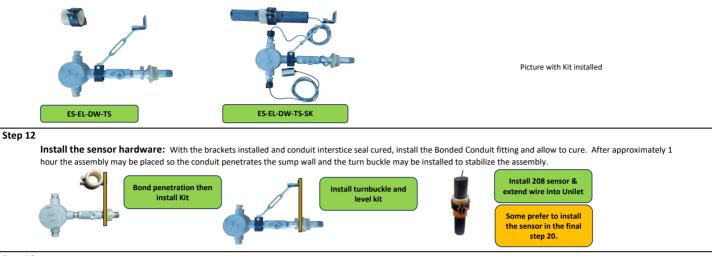
Step 10

Electronics: Double wall sumps have an interstice sensor that is located at the top of the sump and a second sensor located at the bottom of the sump. Generally these are connected by one conduit system leading to the outside of the sump near the bottom of the sump. The contractor may elect to make this penetration at any elevation on the sump. The contractor may also elect to make two penetrations one for each sensor. Diversied offers a very cost effective low profile "Bonded Conduit Fitting". Where possible this fitting should be used to penetrate the sump wall for alarm sensors and power wiring. The fittings are available for 3/4" and 1" rigid conduits. Install the Bonded conduit penetrations at the locations selected. Follow instructions provided with the fittings. Shown at the right are two examples of the bonded conduit fittings with rigid conduit nipples installed.





Install the sump sensor: Before installing the riser, the sensor for the bottom of the sump may be installed. An installation kit with a sensor mounting bracket, unilet, seal off and nipples are available form Diversified Products Product Number ES-EL-DW-TS. This kit is pre assembled and ready to be installed. The kit is designed for Veeder Root "208" sensors for the bottom of the sump. One port of the unilet is left open for sensor wiring from the interstice sensor located at the top of the sump. The installation of this kit and should be completed prior to installing the riser. The kit may be field installed or factory installed. The kit may also be provided with the sensors ES-EL-DW-TS-SK. Installing the 208 sensor and wiring to the unilet may be done at this time or later in the process. Note: Pictures left and center show kit components only. Picture right shows the components as installed.



Step 13

Install the Riser: Notice: Prior to bonding, rotate the riser so that the interestice sensor and the sump sensor hardware located at the bottom of the sump are aligned. On double wall sumps communication must be maintained from base to riser and extensions, if any. The sump seams are designed

to be sealed with epoxy on the inside of the sump. The double wall communicates on the exterior half of the sump. To maintain the intergity of the interstice of the sump a fiberglass rope is provided. Wrap the rope completely around the perimeter of the sump. Push the rope down until it is completely below the top edge of the base. Trim rope to fit. Apply epoxy over the rope making sure it is covered by at least 1/4" of epoxy. This process takes approximately 4 # of epoxy. It is impossible to determine the quality of joints installed based on unknown jobsite conditions. The epoxy joints may be covered with fiberglass matting and isophthalic resin should the contractor be concerned about the soundness of the joint installed.



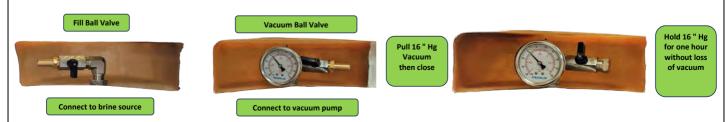
Step 14

Install the interstice sensor: The interstice sensor is mounted in a chamber at the top of the sump. The sump is desinged to have a replacable $1 \frac{1}{4} \times \frac{1}{2}$ " stainless bushing threaded into the sump sensor chamber. Remove the bushing, install the sensor running the wires through the bushing. Coil the sensor wire outside the bushing and seal with the cable seal provided with the Veeder Root 304 sensor. This leaves a sealed chamber so the sump may be pressurized to 4 PSIG as the final step. The installing technician should take care to seal the chamber using Gasolia E on the threads of the $1 \frac{1}{4x1/2}$ " bushing. Factory installed bushings may be removed with a $1 \frac{3}{4}$ " open end wrench. When sensors are ordered from Diversified, this step is complete when the sump is shipped. Excess cable is coiled at the top awaiting for sump assembly.



Step 15

Preparation for Brine: The sump is fitted with fill and vacuum chambers at the top of the sump near the magnetic or friction fit lid. These chambers are recessed to allow complete access into the sump without interefering with the technicians that need to enter the sump to complete the installation or service the equipment. First is a fill line that has a 1/2" barbed fitting for tubing to be run to the brine source when charging the sump. The second chamber is the vacuum line that is fitted with a vacuum/pressure gauge and a 1/2" barbed fitting to be run to the vacuum pump. Each line is equipped with a 1/2" stainless shutoff valve rated for vacuum. Important note the position of the valve handles at each step.



Step 16

Test Sump for Tightness and install Brine: If no leaks are detected, extend the fill line to the brine source. Slowly open the fill and vacuum valves and start the vacuum pump. Vacuum in brine until the instertial sensor is completely covered with brine. Shut off both valves. Note: if the contractor is supplying the interstice sensor, it should be installed earlier in the process so that the sensor seal is verified tight. Once the brine is at the correct location, stop the vacuum pump, remove the fill line and barbed fitting. Install a plug on the ball valve and turn the fill ball valve off. Remove the vacuum line and connect to a pressurized air source. Slowly bleed 4 PSIG into the sump interstice, close the valve, remove the barbed fitting, shutoff the valve and plug the line. Verify there are no leaks at the fill or vacuum lines. Warning: Do not over pressurize.

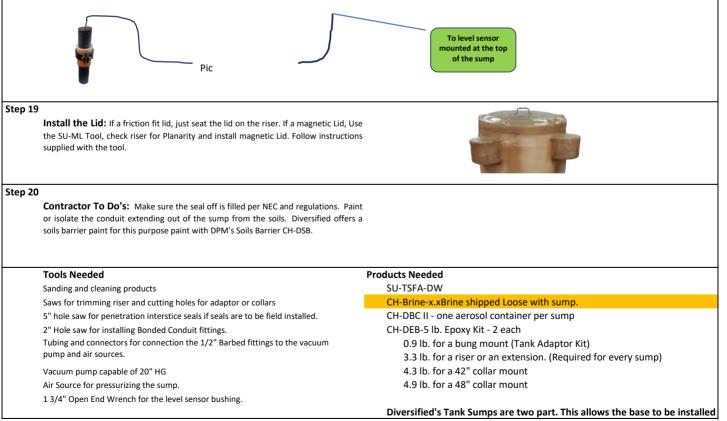


Step 17

Final Steps: The coiled interstice low level alarm sensor (Veeder Root 304) wiring needs to be run to the outside of the sump. The wiring should be run either to the assembly offered by DPM near the bottom of the sump, or to whatever exit point the contractor has selected. The "208" sump sensor needs to be installed and also run to the outside of the sump. Power wiring needs to be brought into the sump and connected in accordance with applicable codes. The following procedures are followed by Diversified when providing and installing kits or kits with sensors. Should the contractor provide sensors and or penetrations, interstice seals must be used or the warranty is voided.

Step 18

Connect the alarm sensors: Run the alarm cable from the level sensor at the top of the sump to the bottom of the sump and install into the unilet port reserved for that purpose. A unilet, a seal off and rigid piping are installed near the bottom of the tank sump. Conduit is extended to the sump exterior and is also connected to the sump alarm sensor. Coil the remaining cable in the unilet for eventual connection to the alarm system. Note: If the contractor is providing the Sump alarm sensor and wiring, care needs to be taken so the installation instructions provided herein are followed.



SU-CII-TKSF-EXT-DW &

SU-CII-TSFA-EXT-DW



Diversified Products Manufacturing Inc.





Installation Instructions **Double Wall Tank Sump Extensions**

Prepare all Surfaces: All surfaces to be bonded should be prepared prior to Completing the installation steps below.

Warning: Failure to follow each step will void the warranty and may result in premature failure of the penetration fitting. Adhere to the following general instructions for each step of the installation.

Bonding to Poly & FRP surfaces: Sand (rough up) sump surfaces to be bonded and clean with CH-DBC II. Remove all gel coat on all fiberglass surfaces. Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and allow to air dry. Excess cleaner may be wiped off with a clean dry cloth.

Diversified's Tank Sump Extensions are available for direct burial applications. Diversified extensions are approximately 24" tall. Extensions are the larger diameter of the piping or turbine sump and are generally mounted in the field. The top of the extension is configured of accept the standard sump riser assembly shipped as part of the sump. For bonding the extension, order the bulk epoxy separately. Extensiong may be cut to any length in the field. Multiple extensions may be stacked. Instructions shown are for the SU-TKSF-EXT-DW. The procedure is the

same for The SU-TSFA-EXT-DW

and contact the factory immediately.





Step 2

Step 1

Preparations for installation: Determine if the extension is to be modified to a shorter length. If so, visibly mark the extension 360 degrees and cut to length. Sand and clean the surface to be bonded to the sump base for 1" above the bottom. Sand and clean the mating part of the sump base. Spray both surfaces with CH-DBC II. Allow surfaces to air dry or wipe dry with a clean dry cloth.

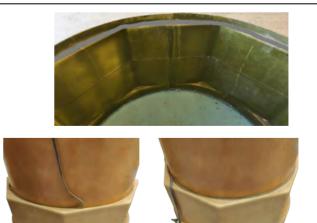
Inspect the Extension: At the time the extension is received, the products should be immediately unpacked and checked for damage. Should the base or riser be damaged, notify the carrier

Step 3

Mix the epoxy: It takes 3.3 lb. of CH-DEB epoxy to bond the extension to the base. Order separately as a kit or in bulk. Use the container provided and mix part A & B thoroughly. If desired, the epoxy may be mixed outside the can provided. If so clean the surface where the epoxy will be mixed with CH-DBC II prior to use.

Step 4

Sump Base & Riser. When bonding the sump base be sure to align the sump walls correctly for the piping and wiring systems to be installed on the flat panels. The extension is round and has no rotational requirments. On double wall sumps communication must be maintained through the extension(s), to the riser. The sump seams are designed to be sealed with epoxy on the inside of the sump. The double wall communicates on the exterior half of the sump. To maintain the intergity of the interstice of the sump a fiberglass rope is provided. Wrap the rope completely around the perimeter of the sump. Push the rope down until it is completely below the top edge of the base. Trim rope to fit. Apply epoxy over the rope making sure it is covered by at least 1/4" of epoxy. This process takes approximately 3.3 # of epoxy. It is impossible to determine the quality of joints installed based on unknown jobsite conditions. The epoxy joints may be covered with fiberglass matting and isophthalic resin should the contractor be concerned about the soundness of the joint installed.



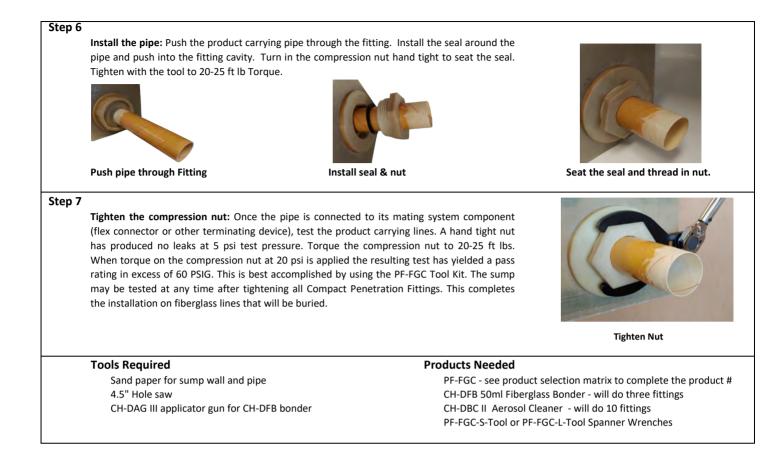
Step 6	Apply Epoxy to the interior seam: After mounting the extension and finishing the exterior seam, the joint inside the base/extension needs to be sealed. Apply the epoxy as before and smooth the seam.	
Step 8	Install the Lid: If a friction fit lid just seat it on the riser. If a magnetic Lid, use the SU-ML Tool, check riser for Planarity and install magnetic Lid. Follow instructions supplied with the tool.	
	Tools Needed Sanding and cleaning products Saws for trimming riser and cutting holes for adaptor or collars	Products Needed SU-TKSF or SU-TSFA Tank sump SU-TKSF-EXT-DW Extension or SU-TSFA-EXT-DW Extension CH-DBC II - one aerosol container per sump CH-DEB-5 lb. Epoxy Kit 0.9 lb. for a bung mount (Tank Adaptor Kit) 3.3 lb. for a riser or an extension. (Required for every sump)

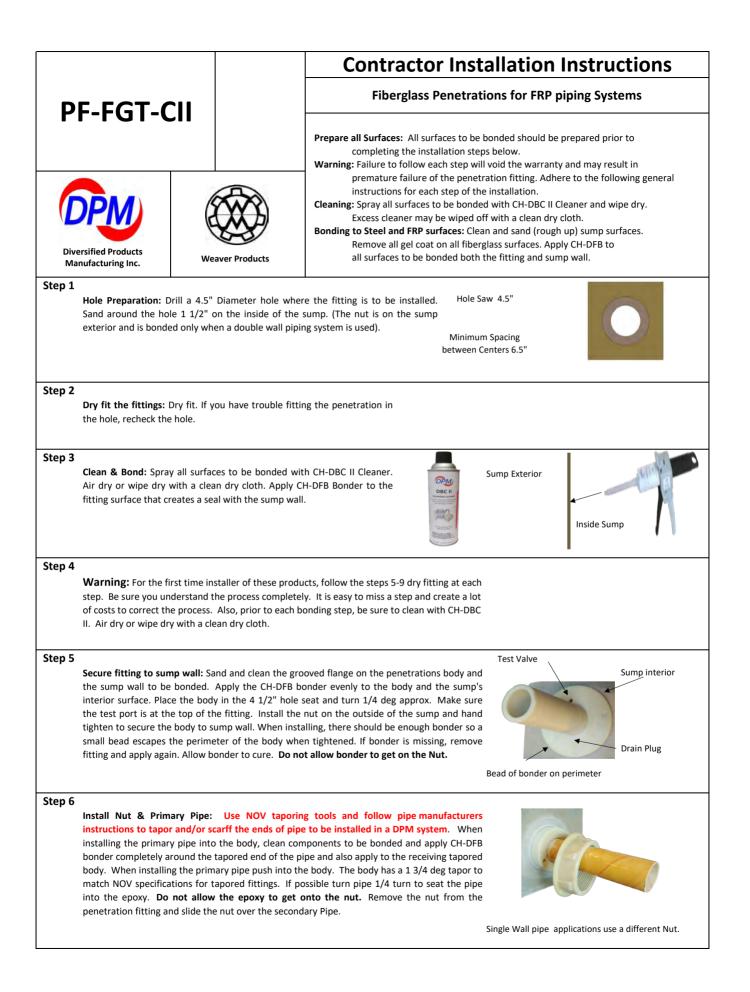
4.3 lb. for a 42" collar mount 4.9 lb. for a 48" collar mount

		Contractor Installation Instructions					
	ΑΡΤ	Compact Penetrations for Corrugated Ducted					
	Brugg	Applications					
PF-FGC-CII	OPW	Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below. Warning: Failure to follow each step will void the warranty and may result in					
Diversified Products Manufacturing Inc.	Weaver Products	 premature failure of the penetration fitting. Adhere to the following general instructions for each step of the installation. Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and wipe dry. Excess cleaner may be wiped off with a clean dry cloth. Bonding to Steel and FRP surfaces: Clean and sand (rough up) sump surfaces. Remove all gel coat on all fiberglass surfaces. Apply CH-DFB to all surfaces to be bonded both the fitting and sump wall. 					
Sand around the hole 1 1	/2" on the inside of the	ere the fitting is to be installed. Hole Saw 4.5" sump. (The nut is on the sump ght joint is required with the Minimum Spacing between Centers 6.5"					
Step 2 Dry fit the fittings: Dry fit the hole, recheck the hole	-	ing the penetration in					
Air dry or wipe dry with a	Clean & Bond: Spray all surfaces to be bonded with CH-DBC II Cleaner. Air dry or wipe dry with a clean dry cloth. Apply CH-DFB Bonder to the fitting surface that creates a seal with the sump wall.						
When installing, there sho	uld be enough bonder so	and tighten to secure fitting to sump wall. to a small bead escapes the perimeter of the move fitting and apply again. Allow bonder Bead of bonder on perimeter					
		seal is required for the corrugated ducting, step 4 above and apply to the nut. Bond nut to sump wall					
		ting reducer and corrugated duct seal over oduct carrying pipe into and through the Corrugated Duct Seal					

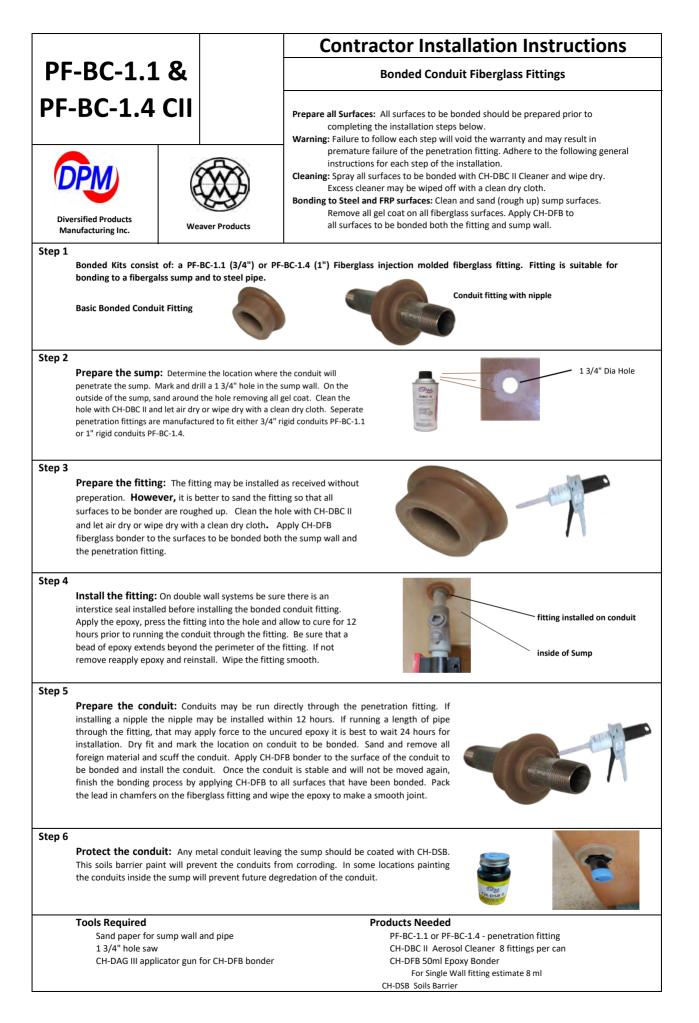
Step 7		
	Install the pipe: Push the product carrying pipe through the fitte pipe and push into the fitting cavity. Turn in the compression Tighten with the tool to 20-25 ft lb Torque.	_
Step 8		
	Tighten the compression nut: Once the pipe is connected to (flex connector or other terminating device), test the product has produced no leaks at 5 psi test pressure. Torque the co When torque on the compression nut is applied at 25 PSI the r rating in excess of 60 PSIG. This is best accomplished by using may be tested at any time after tightening all Compact Penet the installation on Direct Burial Systems	carrying lines. A hand tight nut mpression nut to 20-25 ft lbs. esulting test has yielded a pass the PF-FGC Tool Kit. The sump
Step 9	Connect Corrugated Duct: Push corrugated duct into the tailp Push until it snaps in place. Warning - the corrugated ducting v installed. Be sure you are ready to perform this step.	
Step 10	Move Corrugated Duct Seal: Place the corrugated duct seal in the penetration fitting.	the groove nearest
<u> </u>		
Step 11	Install the Boot: Slide the boot in place. Push the front edge until it stops on the shoulder of the penetration fitting.	of the boot forward
Step 12	Tighten Band Clamps: Tighten clamps but do not exceed installation should be complete.	d 60 inch lbs. The
Step 13	Completed installations inside the sump.	
	Tools Required	Products Needed
	Sand paper for sump wall and pipe	PF-FGC - see product selection matrix to complete the product #
	4.5" hole saw CH-DAG III applicator gun for CH-DFB bonder	CH-DFB 50ml Fiberglass Bonder - will do three fittings CH-DBC II Aerosol Cleaner - will do 10 fittings

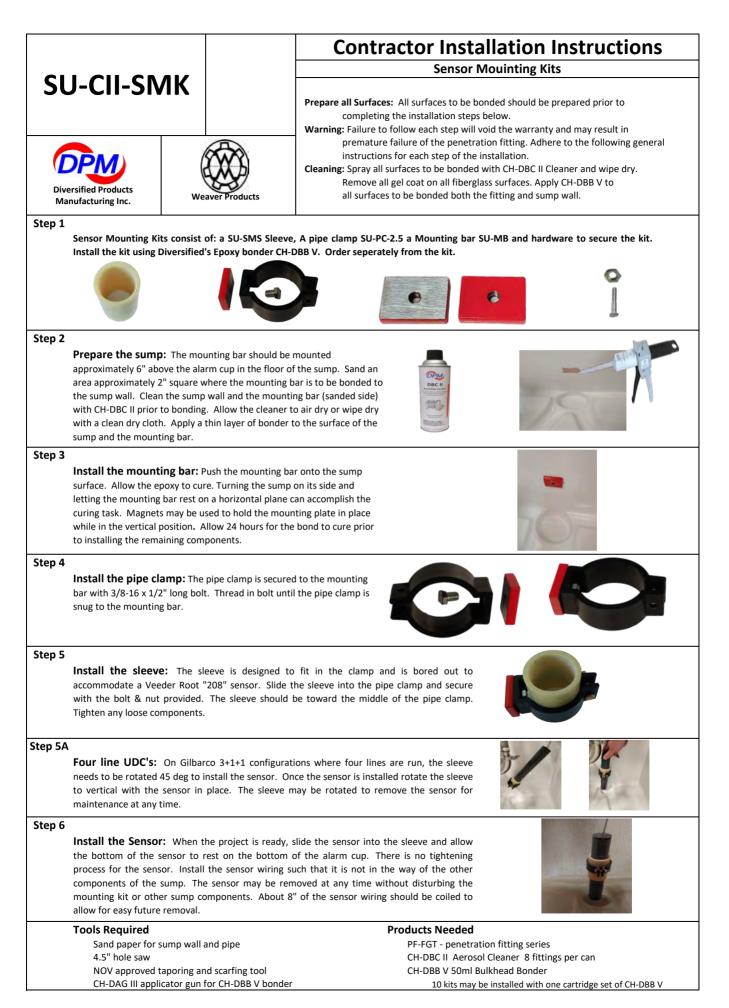
			Contractor Installation Instructions					
			Compact Penetrations for Fiberglass Pipe & Direct Burial Flex Pipe Applications					
P	F-FGC-CII	NOV Fiberglass	Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below. Warning: Failure to follow each step will void the warranty and may result in					
	ersified Products anufacturing Inc.	Veaver Products	 variance to follow each step with vold the warranty and may result in premature failure of the penetration fitting. Adhere to the following general instructions for each step of the installation. Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and wipe dry. Excess cleaner may be wiped off with a clean dry cloth. Bonding to Steel and FRP surfaces: Clean and sand (rough up) sump surfaces. Remove all gel coat on all fiberglass surfaces. Apply CH-DFB to all surfaces to be bonded both the fitting and sump wall. 					
Step 1	•		e the fitting is to be installed. Hole Saw 4.5" sump. (The nut is on the sump Minimum Spacing between Centers 6.5"					
Step 2	Dry fit the fittings: Dry fit. If the hole, recheck the hole.	you have trouble fittir	ng the penetration in					
Step 3	Clean & Bond: Spray all surf Air dry or wipe dry with a cl fitting surface that creates a s	ean dry cloth. Apply Cl	H-DFB Bonder to the					
Step 4	When installing, there should	l be enough bonder so	nd tighten to secure fitting to sump wall. a small bead escapes the perimeter of the nove fitting and apply again. Allow bonder Bead of bonder on perimeter					
Step 5	Direct Burial Applications: T be installed either before or a		oes not need to be bonded. The nut may Sump Exterior					





Step 7 Install the Nut and Secondary Pipe. Clean then apply bonder to the nut's flange and the outside of sump surface of the sump to be bonded. Repeat the process in Step 4 above. Screw the nut onto the body and snug to the sump. Be sure there is a bead of bonder all around the perimeter of the nut. If not, remove and start over. At this point, the nut and primary pipe are bonded in place and the body is bonded to the sump wall. Usually this is the time to test the primary line prior to completing the installation of the secondary. Test the primary and fix any leaks prior to installing the secondary pipe. Step 8 When the primary test is completed: Clean and apply bonder to the interior of the tapored nut and the end of the tapored secondary pipe. Push the secondary pipe into the nut and turn 1/4 turn if possible. Make sure there is a bead of bonder completely around the secondary pipe and the perimeter of the nut. If not, remove the secondary pipe and start over. Allow the bond to cure then test the secondary. Bead of Bonder Step 9 For LCX systems: When taporing the LCX Pipe also scarff the surface where the secondary will be bonded to the Penetration fittings' Nut. When the primary pipe and penetrations' nut have been bonded and tested, the secondary of the LCX installation may be completed. The nut has an internal tapor and should be around the scarfed area of the LCX pipe. Clean with CH-DBC II and apply CH-DFB to the space between the nut and secondary of the LCX. Complete this step for the entire project and test secondary. For the best fit, use scarff & tapor dimensions below. Installation of the Piping system is complet. Now for the interior of the sump. Apply bonder to Penetration Apply bonder to tapor Insert pipe and rotate 1/4 turn 1 3/4" 1' After testing Primary, pack Do not apply bonder to scarffed area at this time penetration with Bonder Step 10 The penetration fitting: is available in three configurations as shown to the right. One option is a tapored end for bonding NOV fiberglass components to the fitting. A secondary option is the fitting can be ordered with a 2" sanitary fitting pre bonded to the penetration. The third option is a 2" FPT coupling may be ordered pre bonded to the penetraation fitting. The Sanitary and coupling are stainless and may also be oprdered independently. Step 11 Complete the Piping for the interior of the sump. Test as required. **Tools Required Products Needed** Sand paper for sump wall and pipe PF-FGT - penetration fitting series CH-DBC II Aerosol Cleaner 8 fittings per can 4.5" hole saw NOV approved taporing and scarfing tool CH-DFB 50ml Fiberglass Bonder CH-DAG III applicator gun for CH-DFB bonder For Single Wall fitting estimate 15 ml For Double Wall fittiings estimate 40 ml





		Installation Instructions				
SU-CII-I	Magneti	c Lids for Adjustable and Large Tank Sumps				
Diversified Products	Prepare all Surfaces: Completing Warning: Failure to for premature instructions Bonding to Poly & FRI clean with of Cleaning: Spray all sur	 Prepare all Surfaces: All surfaces to be bonded should be prepared prior to Completing the installation steps below. Warning: Failure to follow each step will void the warranty and may result in premature failure of the penetration fitting. Adhere to the following general instructions for each step of the installation. Bonding to Poly & FRP surfaces: Sand (rough up) sump surfaces to be bonded and clean with CH-DBC II. Remove all gel coat on all fiberglass surfaces. Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and allow to air dry. Excess cleaner may be wiped off with a clean dry cloth. 				
not been compromised by utilizin	ng the installation tool as outlined in the final	ior to installation, confirm that the integrity of the magnetic attractor has step of these instructions. This may require cleaning the installation tool clean the plexiglass. Avoid all chemical cleaners. the SU-TKSF and SU-TSFA Tank Sumps.				
Step 1 Install Magnetic Lid: Set the mag top of the sump. The attractor and shipping and should require no ad	d lid have been checked prior to					
Step 2 Check for leaks: Should there be not seal proceed as follows: Ob from Diversified Products Manufa	tain a test Plate, SU-MLA-Tool,					
Step 3 Test for planarity: Remove magnet to the flat surface of magnetic a note whether or not there is an ex plate.	attractor. Install test plate and					
Step 4 Finish Installation: If planular, completely around the test ring attractor. If planular, clean off oil, and the installation is complete completely around the magnetic a instructions. Remove magnetic lid the handles. See new instructions	on the surface of the magnetic mount the magnetic lid in place e. If the oil does not disperse attractor, contact the factory for I when needed by pulling up on					
Step 5 Maintenance: Whenever removin clean the magnetic attractor and t to replacing the lid. Should the sea factory for a net exchange for th time of repair will apply.New instr	the seal in the magnetic lid prior al become damaged, contact the he lid. Exchange policies at the	ENSURE MAGNETIC LID SEAL AND MATING SURFACE ARE CLEAN PRIOR TO REPLACEMENT				
Tools Needed SU-MLA-Tool for checking Pla		Products Needed SU MLA-Tool light weight colored oil (sewing machine oil)				





October 30, 2020

Mr. Josh Dow Diversified Products Manufacturing Inc 5523 Baggett Marysville Rd Oroville, CA 95965

RE: NDE Reference No: NDE20201020 Third-Party Certification under UL 2447- Outline of Investigation for Fittings Accessories for Fuels

Products Evaluated: Split Repair Fittings & Test Reducers for Containment Sumps for Fuels PF-Penetration Fittings Series, Sump Entry Fittings and Test Reducers SR- Split Repair Sump Entry Fittings and Test Reducer Series FG/PG Spilt Repair Series CH- Series, All Chemicals used in the installation process SU- Sumps and Accessories

Dear Mr. Dow,

In reference to the above listed products, our testing partner on this project (N.D. Eryou, PhD, PE) has performed our UL 2447 Third-Party inspection and testing. All products listed were determined to comply with the "Outline of Investigation for Fittings and Accessories for Fuels".

It is our opinion that both the design and materials used in the above products are based on sound engineering principles and the materials are compatible with all motor fuels and additives currently being used including fuels containing >10% ethanol or 20% biodiesel. Therefore, the Spill Containment Liner should have the same chemical resistance to the UL 2447 test fuels as the DPM "Products Evaluated" listed above.

Disclaimer: Underwriters Laboratories (UL) is an independent testing laboratory and use of, in any way, of the UL Listing or Registered Trade Mark UL is prohibited unless specifically authorized by Underwriters Laboratories.



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NOTICE OF COMPLETION OFTHIRD-PARTY UL 2447 EVALUATION

February 3, 2021

Mr. Josh Dow Diversified Products Manufacturing Inc 5523 Baggett Marysville Rd Oroville, CA 95965

RE: NDE Reference No: NDE20201020 Third-Party Certification under UL 2447- Outline of Investigation for Fittings Accessories for Fuels

Products Evaluated: Split Repair Fittings & Test Reducers for Containment Sumps for Fuels PF-Penetration Fittings Series, Sump Entry Fittings and Test Reducers SR- Split Repair Sump Entry Fittings and Test Reducer Series FG/PG Spilt Repair Series CH- Series, All Chemicals used in the installation process. SU - Sumps and Accessories

Dear Mr. Dow

In reference to the above listed products, we have performed our UL 2447 Third-Party inspection and testing. All products listed were determined to comply with the "Outline of Investigation for Fittings and Accessories for Fuels".

It is our opinion that both the design and materials used in the above products are based on sound engineering principles and the materials are compatible with all motor fuels and additives currently being used including fuels containing >10% ethanol or 20% biodiesel. Therefore, the Spill Containment Liner should have the same chemical resistance to the UL 2447 test fuels as the DPM "Products Evaluated" listed above.

Further to your recent request with regard to your Canadian distributors utilization of the above test results, we have compared the <u>testing requirements</u> of UL (US) 2447 with CAN/ULC-S664:2017 and found them to be virtually identical.

There were only two differences that we found between the two Codes.

1. ULC S664 Section 5.8.5 "Extreme Low Temperature Impact Test – requires testing at – 40^{0} F and our tests were conducted at a minimum temperature of - 30^{0} F.

 ULC S664 Section Appendix B 1.1 Defines 21 specific grades of fuel while UL US defines four grades of fuel, which covers the wide range of fuels commonly used by gasoline and diesel-powered vehicles.

Furthermore, we have reviewed the UL (US) website which contains the following relevant statement confirming the sharing of UL specifications between UL - US and UL - Canada:

"UL STANDARDS: ACCREDITED IN THE US AND CANADA

In the US, UL is accredited by the American National Standards Institute (ANSI) as an audited designator. In 2013, UL was accredited by the Standards Council of Canada (SCC) as a nationally recognized Standards Development Organization (SDO) able to develop National Standards of Canada (NSCs).

UL's Standards Technical Panels (STPs) serve as the consensus body for both American National Standards (ANS) and National Standards of Canada (NSC). Essential information About UL's standards development programs, how to Access Standards, and how to participate in the UL programs used to Develop Standards is available on this site."

It should not be inferred that our test of DPM products addresses the issue of long-term quality control issues as both UL (US) and UL Canada do with their annual subscription programs.

Disclaimer: Underwriters Laboratories (UL – US & UL - Canada) are independent testing laboratories and use of, in any way, of the UL Listing or Registered Trademark UL is prohibited unless specifically authorized by Underwriters Laboratories (US or Canada).

Very truly yours,

N.D. Eryou, Ph.D., P.E. Eryou Engineering dennis@eryouengineering.com

<u>Southwest Florida Office</u> 5051 Castello Drive, Suite 244 Naples, FL 34103 239.530.4301 dennis@eryouengineering.com <u>New Jersey Office</u> 107 Lincoln Avenue Florham Park, NJ 07932 973.919.6842 robert@eryouengineering.com

NOTICE OF COMPLETION OFTHIRD-PARTY UL 2447 EVALUATION

October 22, 2020

Mr. Josh Dow Diversified Products Manufacturing Inc 5523 Baggett Marysville Rd Oroville, CA 95965

- RE: NDE Reference No: NDE20201020 Third-Party Certification under UL 2447- Outline of Investigation for Fittings Accessories for Fuels
- Products Evaluated: Split Repair Fittings & Test Reducers for Containment Sumps for Fuels PF-Penetration Fittings Series, Sump Entry Fittings and Test Reducers SR- Split Repair Sump Entry Fittings and Test Reducer Series FG/PG Spilt Repair Series CH- Series, All Chemicals used in the installation process SU- Sumps and Accessories

Dear Mr. Dow

In reference to the above listed products, we have performed our UL 2447 Third-Party inspection and testing. All products listed were determined to comply with the "Outline of Investigation for Fittings and Accessories for Fuels".

It is our opinion that both the design and materials used in the above products are based on sound engineering principles and the materials are compatible with all motor fuels and additives currently being used including fuels containing >10% ethanol or 20% biodiesel. Therefore, the Spill Containment Liner should have the same chemical resistance to the UL 2447 test fuels as the DPM "Products Evaluated" listed above.

Disclaimer: Underwriters Laboratories (UL) is an independent testing laboratory and use of, in any way, of the UL Listing or Registered Trade Mark UL is prohibited unless specifically authorized by Underwriters Laboratories.

Very truly yours,

N.D. Ervou, Ph.D., P.E.



Cont	Reference Data								
DPM	Fiberglass Penetration & Sump Epoxy Wizard								
	Quantity	Bonder-ml DFB	Cleaner-cans DBC II	Epoxy DEB	Total DFB	Total DBC II	Total DEB		
actory Mounting									
Penetrations									
PF-FGC (factory ES)		0.15	0.1	0	0	0.0	0	FGC SeriesCompact Penetrations	
PF-FGT (factory ES)		0.23	0.1	0	0	0.0	0	FGT-Series Fiberglass Fittings w/ bonded Ada	
PF-BC (factory ES)		0.02	0.1	0	0	0.0	0	BC Series conduit Penetrations	
Interstice Seals & SMK	_				0	0.0	0		
ES-IS-5.0 (Factory ES)		0.02	0.1	0	0	0.0	0	Interstice Seal for Penetrations	
ES-IS-2.0 (Factory ES)		0.01	0.1	0	0	0.0	0	Interstice Seals for Bonded Conduits	
SMK Mtg Bars (Factory ES)		0.01	0.05	0	0	0.0	0	Mounting Bars for SMK Kits	
ld Mounted	_				0	0.0	0	-	
Penetrations									
PF-FGC-x.x-DB		0.17	0.1	0	0	0.0	0	Compact Direct Bury	
PF-FGC-x.x-CD		0.35	0.1	0	0	0.0	0	Compact Corr Duct	
PF-FGC-2.32-DB		0.17	0.1	0	0	0.0	0	Compact For FRP	
PF-FGT-2.4		0.37	0.1	0	0	0.0	0	Threaded single Wall- 2"	
PF-FGT-3.6		0.47	0.1	0	0	0.0	0	Threaded single Wall- 3"	
PF-FGT-3x2		0.67	0.1	0	0	0.0	0	Threaded 3" over 2"	
PF-FGT 2" LCX		0.55	0.1	0	0	0.0	0	Threaded 2" LCX	
PF-FGT 4 x3		0.8	0.1	0	0	0.0	0	Threaded 4" over 4"	
PF-FGT 3" LCX		0.7	0.1	0	0	0.0	0	Threaded 3" LCX	
PF-BC-1.1 to sump		0.02	0.1	0	0	0.0	0	Bonded Conduit 3/4" to sump	
PF-BC-1.1 to Pipe in field		0.15	0.1	0	0	0.0	0	Bonded Conduit 3/4" to pipe in field	
PF-BC-1.4 to Sump		0.02	0.1	0	0	0.0	0	Bonded Conduit 1" to sump	
PF-BC-1.4 to Pipe in field		0.15	0.1	0	0	0.0	0	Bonded Conduit 1" to pipe in Filed	
PF-FGT-x.xFPTx2G		0.17	0.1	0	0	0.0	0	AG UDC Penetration	
2" Bonded x Sanitary Adaptor		0.08	0.1	0	0	0.0	0	Bonding 2" Sanitary Adaptor	
3" Bonded x Sanitary Adaptor		0.16	0.1	0	0	0.0	0	Bonding 3" Sanitary Adaptor	
Tank Sumps									
SU-TKSF-42 (Collar)		0	0.3	4.3	0	0.0	0	Epoxy Bonder for 42" Collar Mount	
SU-TKSF-48 (Collar)		0	0.3	4.9	0	0.0	0	Epoxy Bonder for 48" Collar Mount	
SU-TKSF-BM (Bung)		0	0.3	0.9	0	0.0	0	Epoxy Bonder for Bung Mount	
SU-TKSF Base to riser		0	0.3	3.3	0	0.0	0		
TKSF-Rope								Rope Kit for DW riser bond SU-TKSF Sumps	
SU-TSFA-42 (Collar)		0	0.3	4.3	0	0.0	0	Epoxy Bonder for 42" Collar Mount	
SU-TSFA-48 (Collar)		0	0.3	4.9	0	0.0	0	Epoxy Bonder for 48" Collar Mount	
SU-TSFA-MB (Bung)		0	0.3	0.9	0	0.0	0	Epoxy Bonder for Bung Mount	
SU-TKSF Base to riser		0	0.3	3.3	0	0.0	0		
TSFA-Rope								Rope Kit for DW riser bond SU-TSFA Sumps	
SU-TKSF-Ext		0	0.3	0.3	0	0.0	0	Epoxy Bonder For Extensions	
SU-TSFA-Ext		0	0.3	0.3	0	0.0	0	Epoxy Bonder for Extensions	
Interstice Seals								,	
ES-IS-5.0		0.05	0.05	0	0	0.0	0	Interstice Seal for 4.5" OD Penetrations	
ES-IS-2.0		0.03	0.05	0	0	0.0	0	Interstice Seal for Bonded Conduit Fittings	
Other									
SU-SMK-x.x		0.01	0.05	0	0	0.0	0	Mounting Bar for SMK	
DED E0 ml eo striderer Field		0		Totals	0	0.0	0.0		
DFB-50 ml cartridges Field		.0	DBC II Cans of Clear			DEB Bulk 32 Oz	0	or	
Cases of 15 cartridges	0	.0	Cases of 12 cans	0		DEB Bulk 5#	0	or	
DFB Factory Engr systems		0	DBC II for Eng Sys	0.0		DEB Bulk 15#	0		