

Transition Sump Catalog

*Better
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Design*



*Check
It
Out*

September 2023



"Better by Design"

Diversified Products Manufacturing, Inc.

Transition Sump Catalog

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Work in Progress

Completed Document

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Phone: 530-534-3966 Fax 530-534-7404



"Better By Design"

Most Cost Effective Pre Manufactured Transition Sumps



Features

All Configurations Available

- Wide Range of Sizes
- Standard, Stainless & DEF
- Pre Plumbed and Pre Wired Available
- Third Party Approvals



Benefits

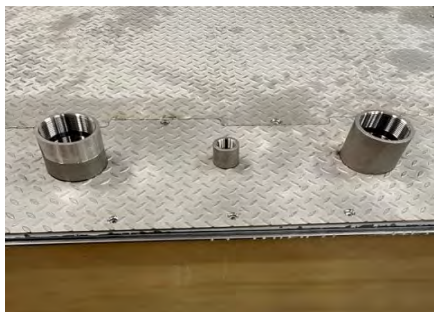
Pre Manufactured Containment Reduces Total Costs

- Rain Tight Split Lids
- Integral Racks and Vapor Pots

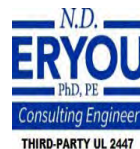


Applications

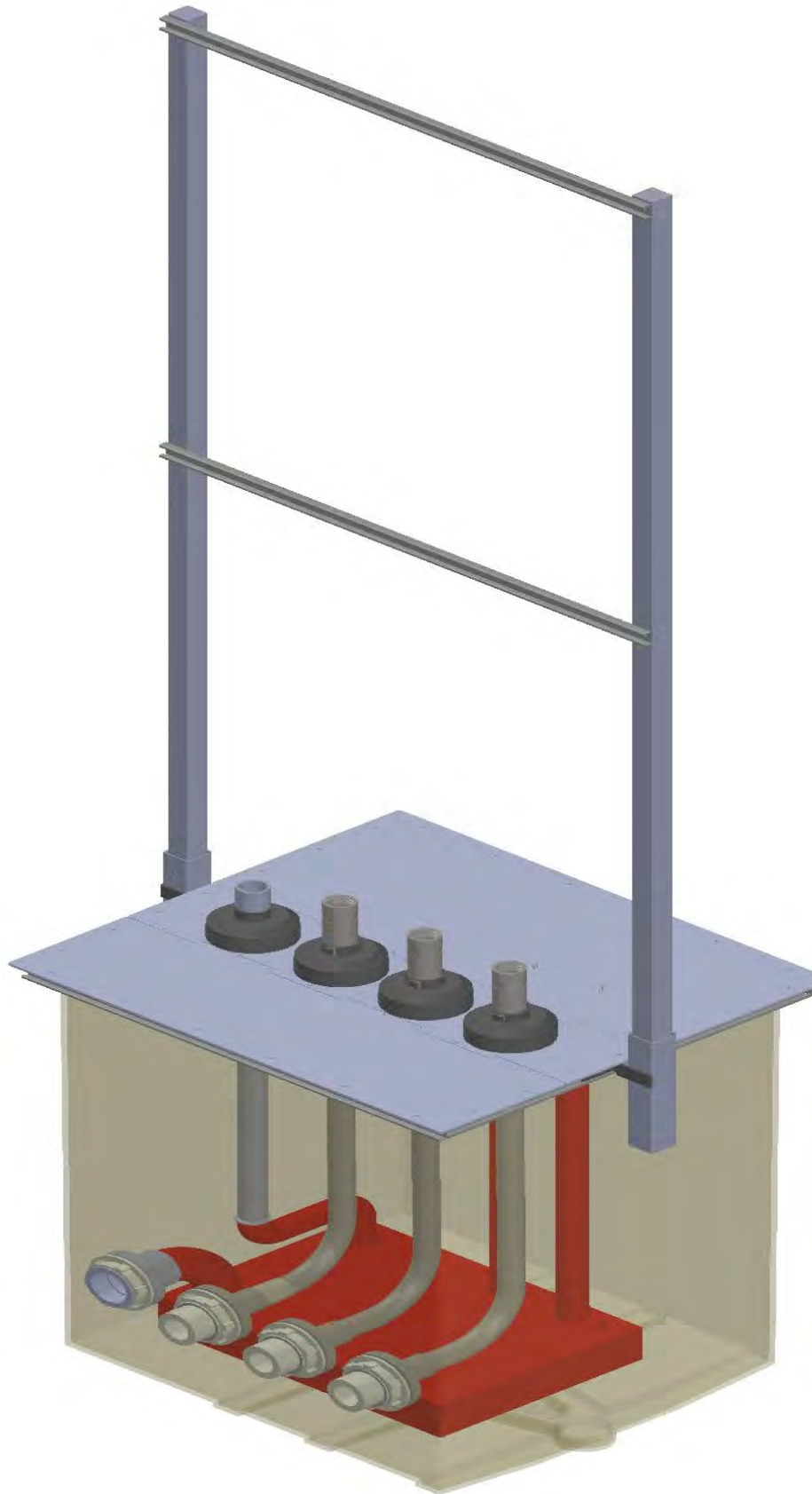
- Single or Double Wall Transition Sumps
- Custom Sizes & Configurations
- All Stainless DEF Systems
- Deep sumps with Integral Vapor Pots
- Welded Couplings for Terminating Product Lines



EQ-742 EQ-801 EQ-836



Custom Transition Sumps



Sizes

24x24x30

24x42x30

40x24x30

40x36x30

40x36x48

48x48x48

Lids

Solid

2 Piece Split

3 Piece Split

Aluminum Diamond Plate

Stainless Diamond Plate

Rain Tight Gasket

Rails

Galvanized

Stainless Steel

Concrete Anchor Kits Installed

Penetrations

Traditional Threaded

Traditional Studded

Fiberglass No Rubber In The Sump

Fiberglass Compact

UV Protected

Racks For All Sump Dimensions

For 2" Steel Pipe

For 3" Steel Pipe

For a Combination of 2" & 3"

Powder Coated

Stainless Steel

Certified for Cannisters

Includes Pipe Clamps & Hardware

Piping

No Internal Piping

Powder Coated Steel Installed

Stainless Steel Installed

Vapor Pots

14" Round x 26" Long

Powder Coated Steel

Stainless Steel

Integral Pre-Piped

With Vent Line

With Alarm Sensor Wired to Surface

With Liquid Evacuation to Surface

Sensors

Shipped Bare No Brackets

Shipped With Brackets Installed

Shipped With Brackets & Sensors

Sloping Floor With Alarm Cup

Interstice Line Testing from Top



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**Compared to the competition,
DPM is the Most Cost Effective
on the Market**

Diversified Products Manufacturing Inc now offers a solution to the problem at a competitive price.



24x24 DEF



40x24x30 through 48x48x48



Single Wall or Double Wall

With Integral Vapor Pot

With Integral Rack

Pre Piped, Single Wall and Double Wall Options

Third Party Approved to UL 2447 Protocols

Call us for a sample or test site

We have been here since 1991

First Testable Penetration, Magnetic Tank Sump Lid, Compact Penetration, & now all the options for Transition Sumps you need.

CHECK IT OUT

Call a Diversified representative to discuss your project needs. 530-534-3966



“Better by Design”

24x24 Transition Sumps

24x24x30 SW & DEF Transition Sumps

24x24x30 & 42 **Single Wall** Basic Transition Sumps, Split Lid, Rain Tight Gasket & Stainless Option



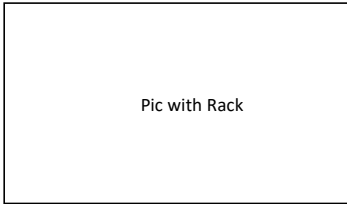
Part #	Description	List Price
SU-TSF-24	24x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket	\$3,130.73
SU-TSF-24-SS	24x24x30 Transition Sump w/Stainless Split Lid, Bottom & Stainless inside Rails,	\$3,566.06
SU-TSFD-24	24x24x42 Deep Transition Sump w/Split Lid, bottom & Rail, Rain tight gasket	\$3,530.73
SU-TSFD-24-SS	24x24x42 Deep Transition Sump w/Split Lid, bottom & Rail, Rain tight gasket	\$3,966.06

24x24x30 & 42 **Single Wall** Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, 1 Line Complete & Stainless Option



Part #	Description	List Price
ES-TSF-24-1L	24x24x30 Transition Sump w/ Split Lid, Bottom, Rails Rain tight Gasket 1 Line "J" Pipe & Penetrations for NOV Pipe	\$4,310.20
ES-TSF-24-1L-SS	24x24x30 Transition Sump w/ Stainless Split Lid bottom, Stainless inside Rail 1 Line "J" Pipe & Penetrations for NOV Pipe	\$5,035.61

24x24x30 **Single Wall** Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Rack & Stainless Option



Part #	Description	List Price
ES-TSF-24-1L-R	24x24x30 Transition Sump w/ Split Lid, Bottom & Rails Rain tight Gasket, With Pipe Rack	\$5,419.70
ES-TSF-24-1L-R-SS	24x24x30 Transition Sump w/Stainless Split Lid, W/1 line "J" Pipe & Penetrations & Pipe Rack	\$6,145.11

24x24x30 **Single Wall** DEF Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors



Part #	Description	List Price
ES-DEF-24	24x24x30 Transition Sump w/ Stainless Split Lid, Rain tight Gasket, Stainless inside Rails	\$3,734.06

24x24x30 **Single Wall** DEF Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, One Line installed complete



Part #	Description	List Price
ES-DEF-24-1L	24x24x30 Transition Sump w/ Stainless Split Lid, Rain tight Gasket, Stainless inside Rails, J Pipe & Penetration Fittings	\$5,203.61



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24x24 Transition Sumps

24x24x30 DW Transition Sumps

24x24x30 Double Wall Basic Transition Sumps, Split Lid, Rain Tight, Concrete Anchors



Part #	Description	List Price
SU-TSF-24-DW	24x24x30 Transition Sump w/ Split Lid, Bottom & Rails Rain tight Gasket. Double Wall	\$4,232.01
SU-TSF-24-SS-DW	24x24x30 Transition Sump w/Stainless Split Lid, Bottom & Rails. Stainless Inside Rails Double Wall	\$5,158.44

24x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations - No Rack



Part #	Description	List Price
ES-TSF-24-1L-DW	24x24x30 Transition Sump w/ Split Lid, Bottom, Rails Rain tight Gasket 1 Line "J" Pipe & Penetrations for NOV Pipe Double Wall	\$5,411.48
ES-TSF-24-1L-SS-DW	24x24x30 Transition Sump w/ Stainless Split Lid bottom, Stainless inside Rail 1 Line "J" Pipe & Penetrations for NOV Pipe Double Wall	\$6,627.99

24x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations, Includes Rack



Part #	Description	List Price
ES-TSF-24-1L-R-DW	24x24x30 Transition Sump w/ Split Lid, Bottom, Rails Rain tight Gasket 1 Line "J" Pipe & Penetrations for NOV Pipe Double Wall	\$6,520.98
ES-TSF-24-1L-R-SS-DW	24x24x30 Transition Sump w/ Stainless Split Lid bottom, Stainless inside Rail 1 Line "J" Pipe & Penetrations for NOV Pipe Double Wall with Rack	\$7,737.49



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40x24 Transition Sumps

40x24x30 SW & DW Transition Sumps

40x24x30 Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors



Part #	Description	List Price
SU-TSF-40-NOV	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket	\$2,915.72
ES-TSF-40-2L-NOV	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap	\$5,008.61
ES-TSF-40-3L-NOV	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap	\$6,055.05
ES-TSF-40-4L-NOV	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap	\$7,101.49

40x24x30 Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Includes Pipe Rack



Part #	Description	List Price
SU-TSF-40-R-NOV	40x24x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain tight Gasket includes 9'-6" Pipe Rack with clamps	\$4,053.99
ES-TSF-40-2L-R-NOV	40x24x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap, Pipe Rack	\$6,175.65
ES-TSF-40-3L-R-NOV	40x24x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap, Pipe Rack	\$7,250.86
ES-TSF-40-4L-R-NOV	40x24x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap, Pipe Rack	\$8,326.07

40x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with interstice Seals- No penetrations



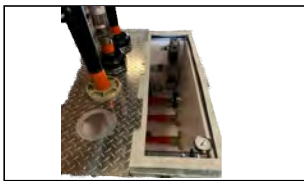
Part #	Description	List Price
ES-TSF-40-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain tight Gasket, Brine Shipped Loose	\$3,817.69
ES-TSF-40-2LI-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ Interstice Seals for 4 Penetrations, Brine Installed	\$4,117.82
ES-TSF-40-3LI-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ Interstice Seals for 6 Penetrations, Brine Installed	\$4,267.14
ES-TSF-40-4LI-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ Interstice Seals for 8 Penetrations, Brine Installed	\$4,416.95

40x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors with Interstice Seals & Rack-No Penetrations



Part #	Description	List Price
ES-TSF-40-2LI-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ Interstice Seals for 4 Penetrations, Pipe Rack, Brine Installed	\$5,255.59
ES-TSF-40-3LI-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ Interstice Seals for 6 Penetrations, Pipe Rack, Brine Installed	\$5,405.41
ES-TSF-40-4LI-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ Interstice Seals for 8 Penetrations, Pipe Rack, Brine Installed	\$5,555.22

40x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations - No Rack



Part #	Description	List Price
ES-TSF-40-2L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap	\$5,611.59
ES-TSF-40-3L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap	\$6,508.54
ES-TSF-40-4L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap	\$7,405.49

40x24x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations, Includes Rack



Part #	Description	List Price
ES-TSF-40-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails Pre Manufactured for 4 Line End of Run for NOV Pipe w/Rack	\$4,955.96
ES-TSF-40-2L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, for NOV Pipe w/Rack	\$6,778.63
ES-TSF-40-3L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, for NOV Pipe w/Rack	\$7,704.35
ES-TSF-40-4L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, for NOV Pipe w/Rack	\$8,630.07



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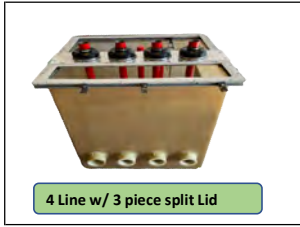


"Better by Design"

40x36 Transition Sumps

40x36x30 SW & DW Transition Sumps

40x36x30 Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors



4 Line w/ 3 piece split Lid

Part #	Description	List Price
SU-TSF-40x36-NOV	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket	\$5,448.80
ES-TSF-40x36-2L-NOV	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap	\$7,541.68
ES-TSF-40x36-3L-NOV	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap	\$8,588.12
ES-TSF-40x36-4L-NOV	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap	\$9,634.57

40x36x30 Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Includes Pipe Rack



Part #	Description	List Price
ES-TSF-40x36-R-NOV	40x36x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket includes 9'-6" Pipe Rack with clamps	\$6,587.07
ES-TSF-40x36-2L-R-NOV	40x36x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap, Pipe Rack	\$8,708.72
ES-TSF-40x36-3L-R-NOV	40x36x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap, Pipe Rack	\$9,783.93
ES-TSF-40x36-4L-R-NOV	40x36x30 Transition Sump w/ Split Lid, Bottom, Rails & Rack 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap, Pipe Rack	\$10,859.15

40x36x30 Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with interstice Seals- No penetrations



Interstice Seal Double Wall Sump

Part #	Description	List Price
SU-TSF-40x36-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Brine Shipped Loose	\$5,892.96
ES-TSF-40x36-2LI-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ Interstice Seals for 4 Penetrations, Brine Installed	\$6,192.60
ES-TSF-40x36-3LI-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ Interstice Seals for 6 Penetrations, Brine Installed	\$6,342.41
ES-TSF-40x36-4LI-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ Interstice Seals for 8 Penetrations, Brine Installed	\$6,492.23

40x36x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors with Interstice Seals & Rack-No Penetrations



Part #	Description	List Price
ES-TSF-40x36-R-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Brine Shipped Loose	\$7,031.32
ES-TSF-40x36-2LI-R-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ Interstice Seals for 4 Penetrations, Pipe Rack, Brine Installed	\$7,330.87
ES-TSF-40x36-3LI-R-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ Interstice Seals for 6 Penetrations, Pipe Rack, Brine Installed	\$7,480.68
ES-TSF-40x36-4LI-R-NOV-DW	40x36x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ Interstice Seals for 8 Penetrations, Pipe Rack, Brine Installed	\$7,630.50

40x36x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations - No Rack



Part #	Description	List Price
ES-TSF-40x36-2L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap, Brine Installed	\$7,686.86
ES-TSF-40x36-3L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap, Brine Installed	\$8,583.82
ES-TSF-40x36-4L-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap, Brine Installed	\$9,480.77

40x36x30 Double Wall Transition Sumps, Split Lid, Rain Tight, Concrete Anchors Complete with Penetrations, Includes Rack



4 Line w/split Lid & Rack

Part #	Description	List Price
ES-TSF-40x36-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Brine Shipped Loose	\$7,031.23
ES-TSF-40x36-2L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap, Brine Installed & Rack	\$8,853.90
ES-TSF-40x36-3L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap, Brine Installed & Rack	\$9,779.63
ES-TSF-40x36-4L-R-NOV-DW	40x24x30 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap, Brine Installed & Rack	\$10,705.35



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"Better by Design"

40x36x48 Deep Transition Sumps

40x36x48 Deep Single Wall Transition Sumps

40x36x48 Deep Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors



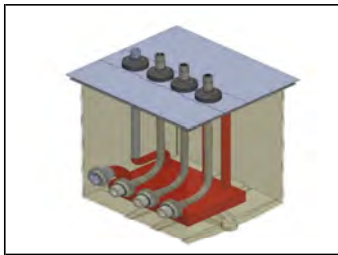
Part #	Description	List Price
SU-TSFD-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket	\$5,656.14
ES-TSFD-2L-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap	\$7,749.02
ES-TSFD-3L-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap	\$8,795.46
ES-TSFD-4L-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap	\$9,841.98

40x36x48 Deep Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Includes Pipe Rack



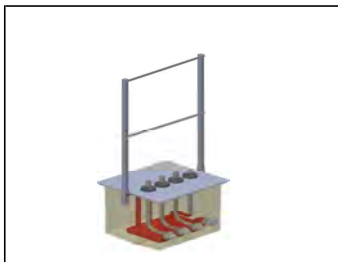
Part #	Description	List Price
ES-TSFD-R-NOV	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket includes 9'-6" Pipe Rack with clamps	\$6,794.41
ES-TSFD-2L-R-NOV	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack 2 lines w/ "J" pipes & 4 Penetrations Installed, UV Cap, Pipe Rack	\$8,916.06
ES-TSFD-3L-R-NOV	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack 3 lines w/ "J" pipes & 6 Penetrations Installed, UV Cap, Pipe Rack	\$9,991.27
ES-TSFD-4L-R-NOV	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack 4 lines w/ "J" pipes & 8 Penetrations Installed, UV Cap, Pipe Rack	\$11,066.49

40x36x48 Deep Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Vapor Pot



Part #	Description	List Price
ES-TSFD-V-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Vapor Pot Installed	\$9,922.28
ES-TSFD-2L-V-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Vapor Pot Installed	\$10,968.72
ES-TSFD-3L-V-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Vapor Pot Installed	\$12,015.16
ES-TSFD-4L-V-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Vapor Pot Installed	\$13,061.60

40x36x48 Deep Single Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Vapor Pot & Pipe Rack



Part #	Description	List Price
ES-TSFD-V-R-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Vapor Pot Installed	\$11,060.50
ES-TSFD-2L-V-R-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Vapor Pot Installed	\$12,135.76
ES-TSFD-3L-V-R-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Vapor Pot Installed	\$13,210.97
ES-TSFD-4L-V-R-NOV	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Vapor Pot Installed	\$14,268.18



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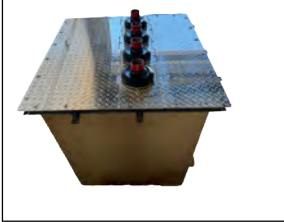


"Better by Design"

40x36x48 Deep Transition Sumps

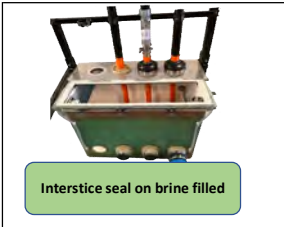
40x36x48 Deep Double Wall Transition Sumps

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Interstice Seals Brine Installed



Part #	Description	List Price
SU-TSFD-NOV-DW	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Basic Sump Brine Shipped Loose	\$8,092.96
ES-TSFD-2LI-NOV-DW	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, 2 interstice Seals, Brine installed - NO penetrations	\$8,392.60
ES-TSFD-3LI-NOV-DW	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, 3 interstice Seals, Brine installed - NO penetrations	\$8,542.41
ES-TSFD-4LI-NOV-DW	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, 4 interstice Seals, Brine installed - NO penetrations	\$8,692.23

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Interstice Seals Includes Pipe Rack



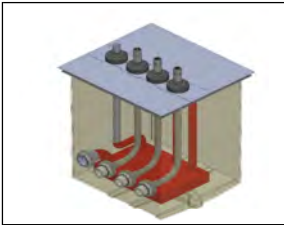
Part #	Description	List Price
ES-TSFD-R-NOV-DW	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket includes 9'-6" Pipe Rack with clamps, Brine Shipped Loose	\$9,231.23
ES-TSFD-2LI-R-NOV-DW	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket, 2 interstice Seals, Brine installed - NO penetrations	\$9,530.87
ES-TSFD-3LI-R-NOV-DW	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket, 3 interstice Seals, Brine installed - NO penetrations	\$9,680.68
ES-TSFD-4LI-R-NOV-DW	40x36x48 Transition Sump w/ Split Lid, Bottom, Rails & Rack Rain Tight Gasket, 4 interstice Seals, Brine installed - NO penetrations	\$9,830.50

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors, Complete Assemblies



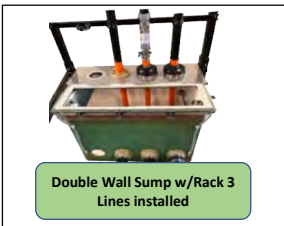
Part #	Description	List Price
SU-TSFD-NOV-DW	40x36x48 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Basic Unit Brine Shipped Loose	\$8,092.96
ES-TSFD-2L-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Brine Installed,	\$9,886.68
ES-TSFD-3L-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Brine Installed,	\$10,783.82
ES-TSFD-4L-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Brine Installed,	\$11,680.77

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Vapor Pot



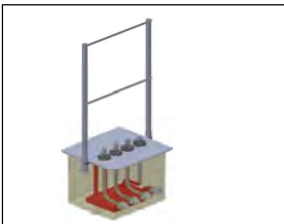
Part #	Description	List Price
ES-TSFD-V-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Vapor Pot Installed, Brine Shipped Loose	\$14,566.27
ES-TSFD-2L-V-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Brine Installed, Vapor Pot Installed	\$15,612.72
ES-TSFD-3L-V-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Brine Installed, Vapor Pot Installed	\$16,659.17
ES-TSFD-4L-V-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Brine Installed, Vapor Pot Installed	\$17,705.60

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Rack



Part #	Description	List Price
ES-TSFD-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Vapor Pot Installed, Brine Shipped Loose	\$9,231.23
ES-TSFD-2L-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Brine Installed, Vapor Pot Installed	\$11,053.90
ES-TSFD-3L-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Brine Installed, Vapor Pot Installed	\$11,979.63
ES-TSFD-4L-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Brine Installed, Vapor Pot Installed	\$12,905.35

40x36x48 Deep Double Wall Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors with Vapor Pot & Rack



Part #	Description	List Price
ES-TSFD-V-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails Rain Tight Gasket, Vapor Pot Installed, Rack & Brine Shipped Loose	\$15,704.54
ES-TSFD-2L-V-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 2 lines w/ 4 Penetrations, Brine Installed, Vapor Pot Installed Rack shipped Loose	\$16,779.76
ES-TSFD-3L-V-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 3 lines w/ 6 Penetrations, Brine Installed, Vapor Pot Installed, Rack Shipped Loose	\$17,854.97
ES-TSFD-4L-V-R-NOV-DW	40x36 Transition Sump w/Sump Split Lid, Bottom & Rails 4 lines w/ 8 Penetrations, Brine Installed, Vapor Pot Installed, Rack shipped Loose	\$18,930.18



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48x48x48 Deep Transition Sumps

48x48x48 Deep **Single Wall & Double Wall** Transition Sumps, Split Lid, Rain Tight Gasket, Concrete Anchors



48x48x48 Sump with +/- 6" vertical adjustable top

Part #	Description	List Price
SU-TSF-48	48x48x48 Transition Sump w/Split Lid, Bottom & Rails Rain Tight Gasket, Basic Sump Single Wall	\$5,806.29
SU-TSF-48-DW	48x48x48 Transition Sump w/Split Lid, Bottom & Rails Rain Tight Gasket, Basic Sump, Double Wall Brine Shipped Loose	\$9,129.74
SU-TSF-48-SS	48x48x48 Transition Sump w/Stainless Split Lid, Bottom & Rails Rain Tight Gasket, Stainless Rails, Single Wall	\$8,576.50
SU-TSF-48-DW-SS	48x48x48 Transition Sump w/Stainless Split Lid, Bottom & Rails Rain Tight Gasket, Stainless Rails, Double Wall Brine shipped Loose	\$11,726.50



48x48x48 Stainless split Lid with openings for Pipe



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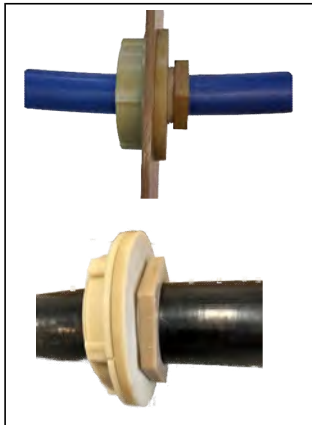




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FGC Series Penetrations

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	\$146.96
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	
PF-FGC-2.15-DB	Compact Fiberglass Penetration for APT-XP-175-D	
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	\$208.98
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	
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 OmegaFlex 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 includes one CH-DSM-V Static Mixer. Use with CH-DAG-III and CH-DSM-V	\$104.12
CH-DSM-V	Static Mixer for use with CH-DBF-50ml This is a fast curing Product. Additional Static Mixers may be required.	\$15.76
CH-DAG III	Plastic Applicator Gun for use with 50ml Cartridge Sets	\$142.49
CH-DAG III M	Metal Applicator Gun for use with 50ml Cartridge Sets	\$192.50
CH-DBC II	Diversified Bulkhead Cleaner for use prior to bonding	\$20.36



One 50 ml Cartridge Set for every 4 fittings if installing -DB series in the field.
One additional 50 ml Cartridge set for every 4 fittings when water tight seals on Corrugated Duct Systems are required.



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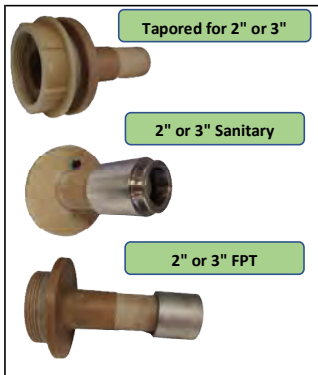




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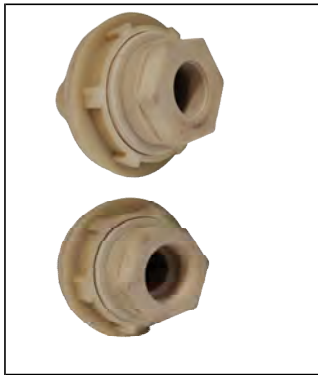
FGT Series Penetrations

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



Part #	Description	List Price
PF-FGT-2NOVx2G	Threaded for 2" Single Wall Pipe also see compact fittings	\$162.28
PF-FGT-3NOVx3G	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 and drain ports	\$212.14
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 with test and drain ports	\$212.44

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



Part #	Description	List Price
PF-FGT-1.5FPTx2G	Threaded for 1 1/2" MPT single wall pipe	\$155.60
PF-FGT-2FPTx2G	Threaded for 2" MPT single wall pipe	\$155.60

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 includes one CH-DSM-V Static Mixer. Use with CH-DAG-III and CH-DSM-V	\$104.12
CH-DSM-V	Static Mixer for use with CH-DBF-50ml This is a fast curing Product. Additional Static Mixers may be required.	\$15.76
CH-DAG III	Plastic Applicator Gun for use with 50ml Cartridge Sets	\$142.49
CH-DAG III M	Metal Applicator Gun for use with 50ml Cartridge Sets	\$192.50
CH-DBC II	Diversified Bulkhead Cleaner for use prior to bonding	\$20.36



\$50 Hazmat fee on air shipments



No Shipping Restrictions



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Pipe Racks & Accessories

Pipe Racks and Accessories

Pipe Racks for Vapor Vent Sumps and AST Transition Sumps, Integral with Transition Sumps or for Direct Burial



Part #	Description	List Price
SU-VVR-12	For one 2" Steel Riser with one set of two 2" clamps	\$1,138.27
SU-VVR-22	For two 2" Steel Risers with two sets of two 2" clamps	\$1,167.04
SU-VVR-32	For three 2" Steel Risers with three sets of two 2" clamps	\$1,195.81
SU-VVR-42	For four 2" Steel Risers with four sets of two 2" clamps	\$1,224.58
SU-VVR-13	For one 3" Steel Riser with one set of two 3" clamps	\$1,139.67
SU-VVR-23	For two 3" Steel Risers with two sets of two 3" clamps	\$1,169.84
SU-VVR-33	For three 3" Steel Risers with three sets of two 3" clamps	\$1,200.01
SU-VVR-43	For four 3" Steel Risers with four sets of two 3" clamps	\$1,230.18

Contact factory for mixed sets of 2" & 3" risers Certified for Cannister Application

Fiberglass Penetrations & UV Protection for Transition Sump Lids



Part #	Description	List Price
PF-FGT-4.5x2.5	Diamond Plate Lid Penetration for Trans Sumps for 2" Pipes Box of 8	\$200.00
PF-FGT-4.5x3.6	Diamond Plate Lid Penetration for Trans Sumps for 3" Pipes Box of 8	\$200.00
PF-RA-6.3x2.5	UV Protection for Fiberglass Penetrations for 2" Pipes Box of 8	\$35.32
PF-RA-6.3x3.6	UV Protection for Fiberglass Penetrations for 3" Pipes Box of 8	\$35.32

Electronic Sensors and Sensor Mounting Kits



Part #	Description	List Price
ES-EL-U	Veeder Root 208 Sensor installed in a Single Wall Sump Each	\$1,162.66
ES-EL-DW	VR 208 & 304 Sensors installed in a Double Wall Sump	\$3,056.63
SU-SMK-1.9	Sensor Mounting Kit for VR 208 Sensors	\$14.88
SU-SMK-2.5R	Sensor Mounting Kit for 208 sensors mounted inside	\$75.00

Bonded Conduit Entry Fittings



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



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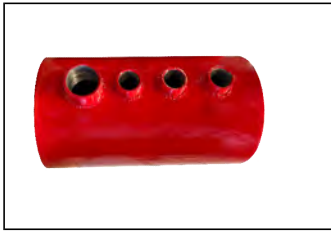


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Vapor Pots

Vapor Pots

Vapor Pots - Stand Alone

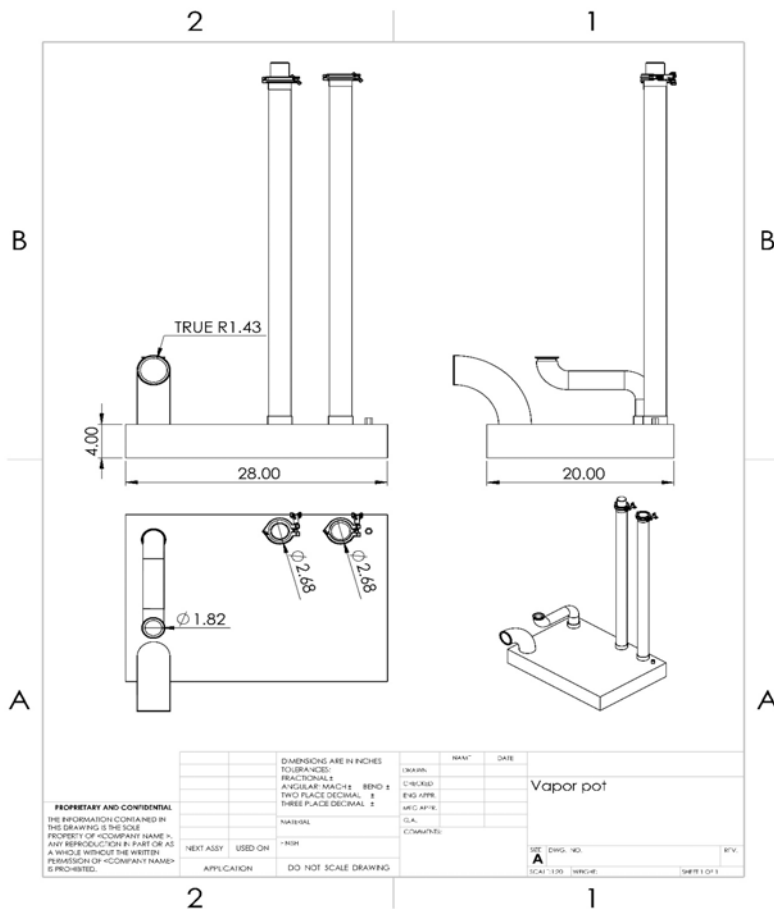


Part #	Description	List Price
SU-VP	Steel Vapor Pot 14" Round x 26" Long one 3" FPT and three 2" FPT openings	\$986.84

Vapor Pot for mounting inside a Deep sump



Part #	Description	List Price
SU-VPT	Steel Vapor Pot 16"x20"x4" Mounts inside DPM 40x36x48 Transition sump Vapor Pot, Includes vent line to surface, product extraction line to surface, Alarm Sensor and sensor riser to surface. Removable from transition sump for inspection and repair.	\$4,266.14



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Sanding Hole Saws- Carbide Tipped

Sanding Hole Saws - Carbide Tipped for Fiberglass



Part #	Description	List Price
PF-SHS-1.75x2.8	Sanding Hole Saw for 3/4 & 1" Bonded Electrical Conduits SW Sumps	\$232.28
PF-SHS-2x2.8	Sanding Hole Saw for 3/4 & 1" Bonded Electrical Conduits DW Sumps	\$256.61
PF-SHS-2x3	Sanding Hole Saw for B2 Series Penetrations SW Sumps	\$261.13
PF-SHS-3.5x5.2	Sanding Hole Saw for B3.5 Series Penetrations SW Sumps	\$407.56
PF-SHS-5x6.7	Sanding Hole Saw for B5 Series Penetrations SW Sumps	\$565.85
PF-SHS-6x7.6	Sanding Hole Saw for B6 Series Penetrations SW Sumps	\$587.08
PF-SHS-2.25x4.5	Sanding Hole Saw for 4 Stud Penetrations SW Sumps	\$291.71
PF-SHS-4x6.7	Sanding Hole Saw for 8 Stud Penetrations SW Sumps	\$466.05
PF-SHS-5.5x8	Sanding Hole Saw for 10 Stud Penetrations SW Sumps	\$509.88
PF-SHS-4.5x6.38	Sanding Hole Saw for FGT & FGC Series Fiberglass Penetrations SW Sumps	\$467.33
PF-SHS-5x6.85	Sanding Hole Saw for Omegaflex Series Penetrations SW Sumps	\$566.57
PF-SHS-5x6.38	Sanding Hole Saw for FGT & FGC Series Fiberglass Penetrations DW Sumps	\$566.57
PF-FGC-5.5x6.85	Compact Fiberglass Penetration for Omegaflex Penetrations DW Sumps	\$495.37



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"Better By Design"

24x24x30 Single & Double Wall Transition Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Transition Sump Systems.



Split Lids for Easy Access

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

DPM's transition sumps are often mounted with lids at grade level with either Stainless Steel or Aluminum diamond plated split lids. 1/2 of the split lid is designed to be easily removed and replaced for service.

Transition sumps are completely gasketed for a rain tight installation.

Where Transition sumps are designed for below grade to above grade applications, a steel or stainless steel J Pipe is used eliminating a flex joint in the sump.



Optional Electronics Installed

24x24x30 Transition sumps may be ordered with all stainless trim including the inside rails, split lid and J Pipe generally for DEF Applications.

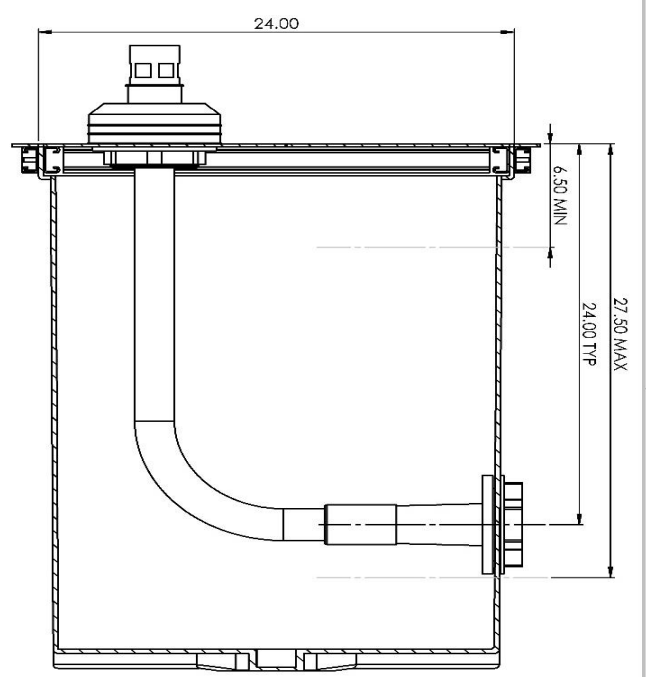
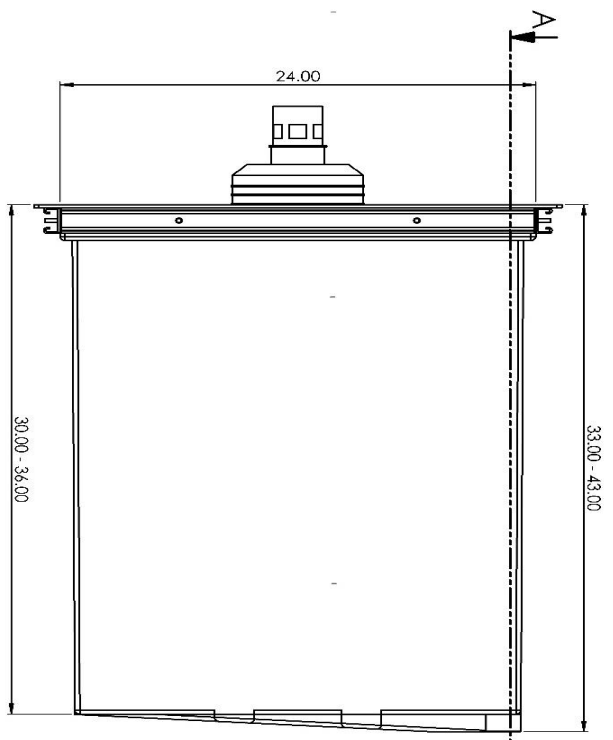
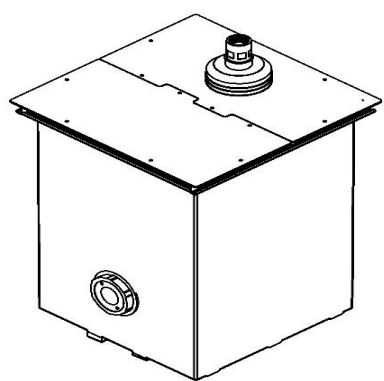
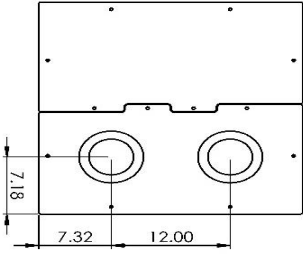
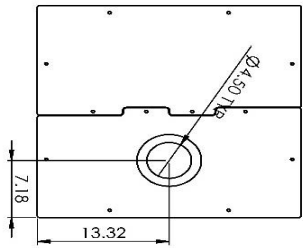
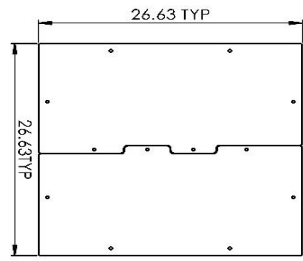
Transition sumps optionally may be ordered with the electronics installed or with a mounting bracket for the sensor selected.

Available in Single Wall or Double Wall Configurations.

24x24 Transition Sumps may be ordered with Rack assemblies for up to two lines.

Third Party Approvals





SECTION A-A
SCALE 1 : 5



"Better By Design"

40x24x30 Single & Double Wall Transition Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Transition Sump Systems.



Double Wall with Rack



Optional Electronics Installed

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

DPM's transition sumps are often mounted with lids at grade level with either Stainless Steel or Aluminum diamond plated split lids. 1/2 of the split lid is designed to be easily removed and replaced for service.

Transition sumps are completely gasketed for a rain tight installation.

Where Transition sumps are designed for below grade to above grade applications, a steel or stainless steel J Pipe is used eliminating a flex joint in the sump.

40x24x30 Transition sumps may be ordered with all stainless trim including the inside rails, split lid and J Pipe generally for DEF Applications.

Transition sumps optionally may be ordered with the electronics installed or with a mounting bracket for the sensor selected.

Available in Single Wall or Double Wall Configurations.

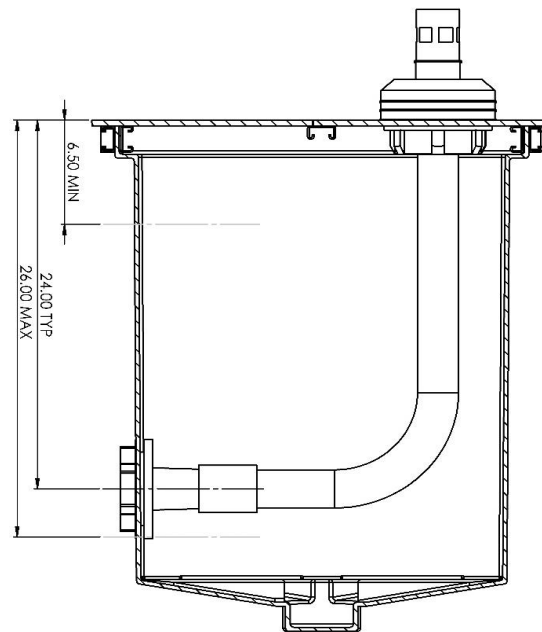
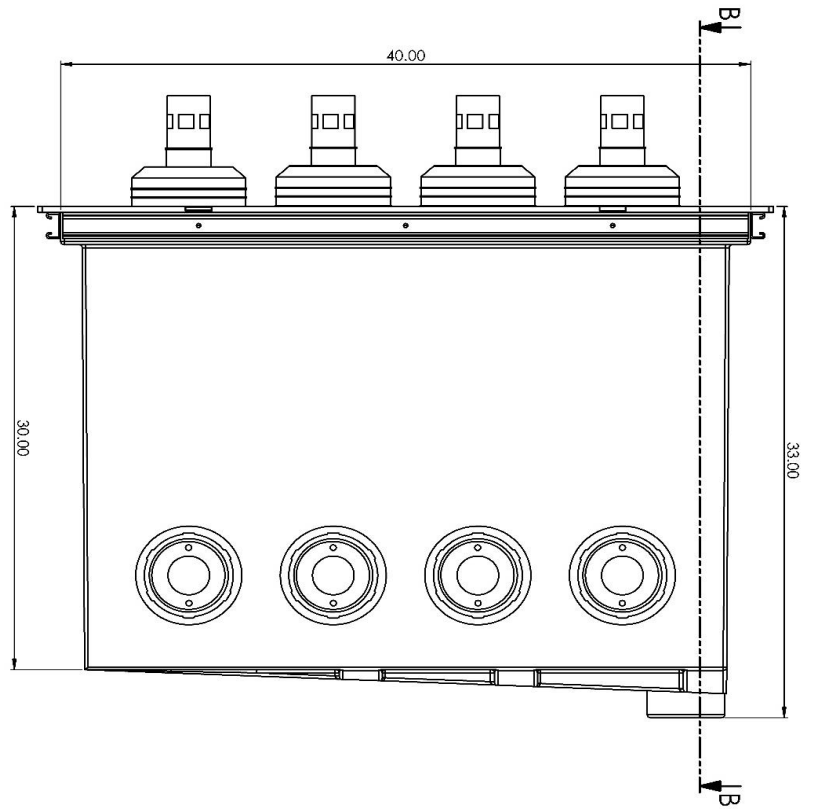
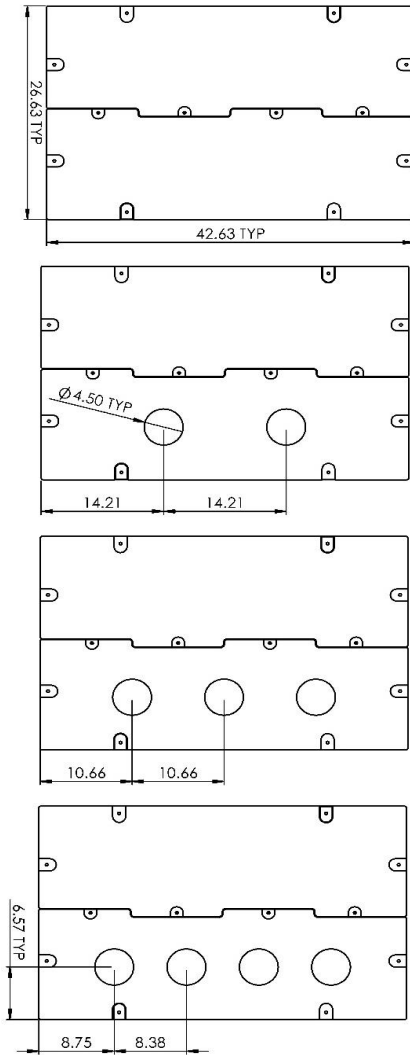
40x24 Transition Sumps may be ordered with Rack assemblies for up to four lines.

Third Party Approvals



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SECTION B-B
SCALE 1 : 5



"Better By Design"

40x36x30 Single & Double Wall Transition Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Transition Sump Systems.



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

DPM's transition sumps are often mounted with lids at grade level with either Stainless Steel or Aluminum diamond plated split lids. Two of the three sections of the of the split lid are designed to be easily removed and replaced for service.

Transition sumps are completely gasketed for a rain tight installation.

Where Transition sumps are designed for below grade to above grade applications, a steel or stainless steel J Pipe is used eliminating a flex joint in the sump.

40x36x30 Transition sumps may be ordered with all stainless trim including the inside rails, split lid and J Pipe generally for DEF Applications.

Transition sumps optionally may be ordered with the electronics installed or with a mounting bracket for the sensor selected.

Available in Single Wall or Double Wall Configurations.

40x36 Transition Sumps may be ordered with Rack assemblies for up to four lines.



Optional Electronics Installed

Third Party Approvals

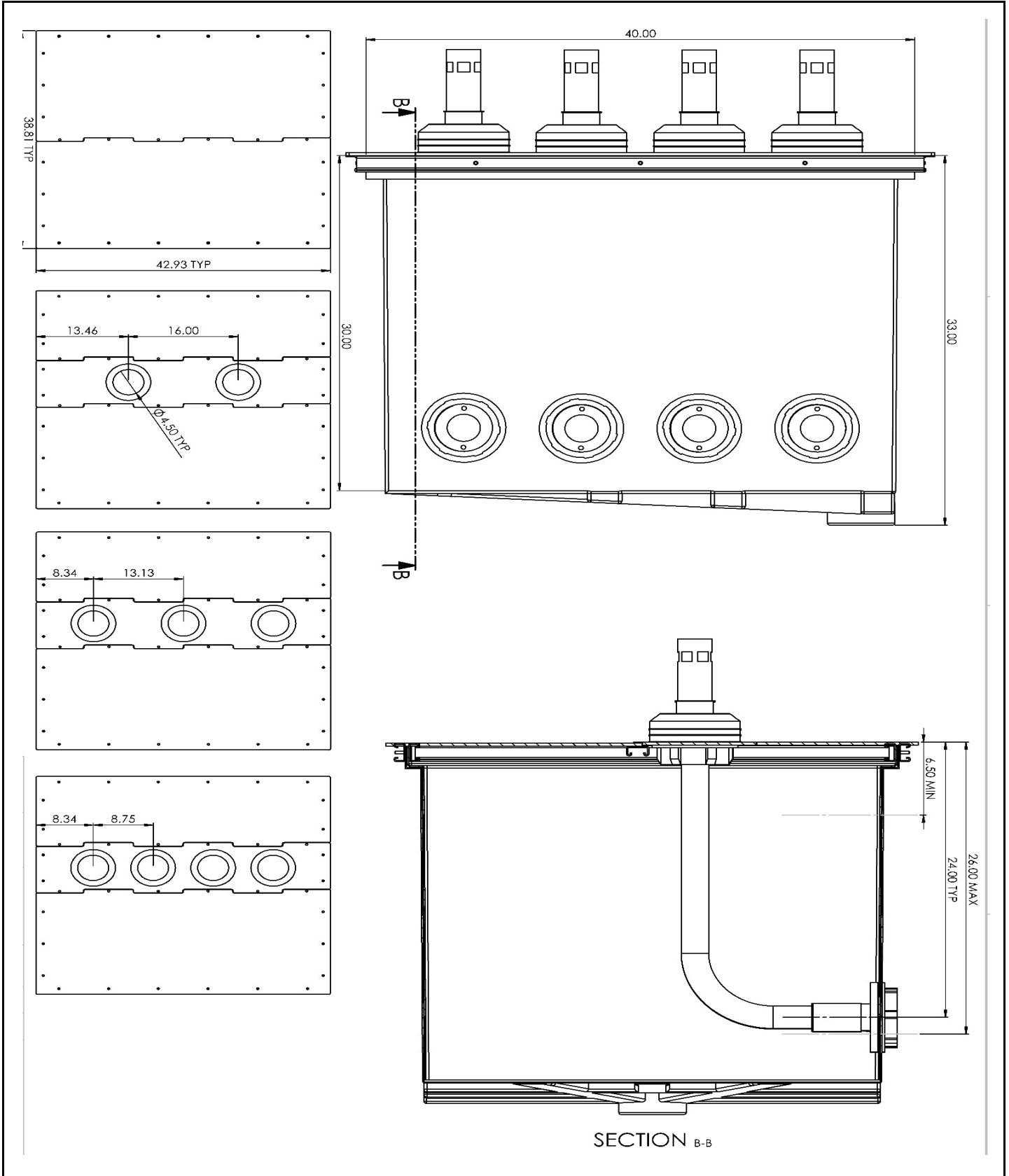


EQ-742 EQ-801 EQ-836



THIRD-PARTY UL 2447







"Better By Design"

40x36x48 Single & Double Wall Transition Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Transition Sump Systems.



Deep Sump w/ Vapor Pot

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

DPM's transition sumps are often mounted with lids at grade level with either Stainless Steel or Aluminum diamond plated split lids. Two of the three sections of the of the split lid are designed to be easily removed and replaced for service.

Transition sumps are completely gasketed for a rain tight installation.

40x36x48 Deep Transition sumps are often used to support a vapor pot system where slope requirments demand a deep sump.

Where Transition sumps are designed for below grade to above grade applications, a steel or stainless steel J Pipe is used eliminating a flex joint in the sump.

40x36x48 Transition sumps may be ordered with all stainless trim including the inside rails, split lid and J Pipe generally for DEF Applications.

Transition sumps optionally may be ordered with the electronics installed or with a mounting bracket for the sensor selected.

Available in Single Wall or Double Wall Configurations.

40x36x48 Transition Sumps may be ordered with Rack assemblies for up to four lines.



Optional Electronics Installed

Third Party Approvals

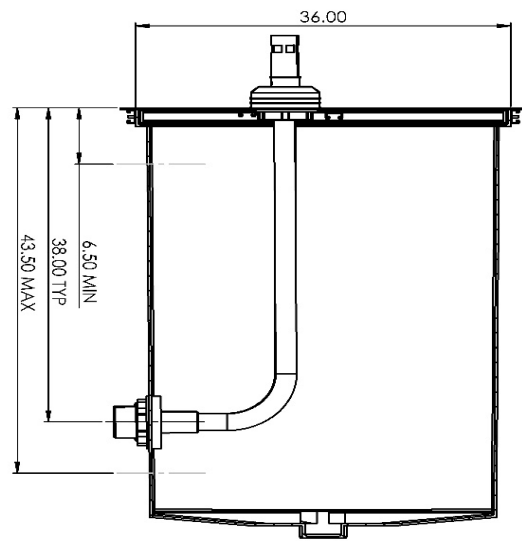
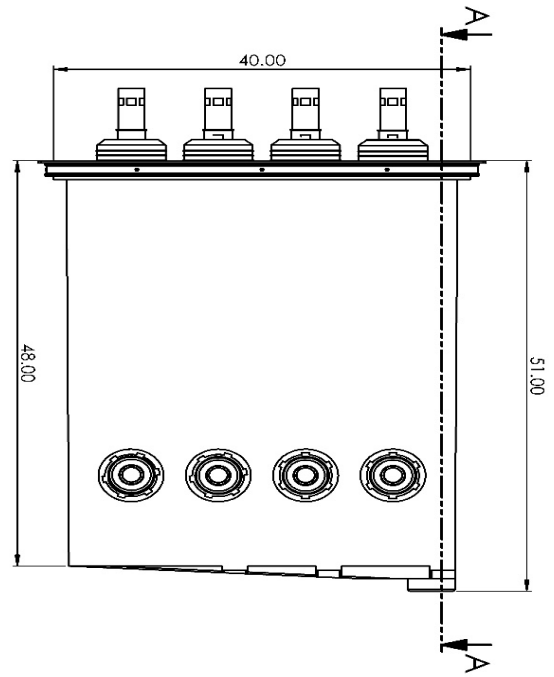
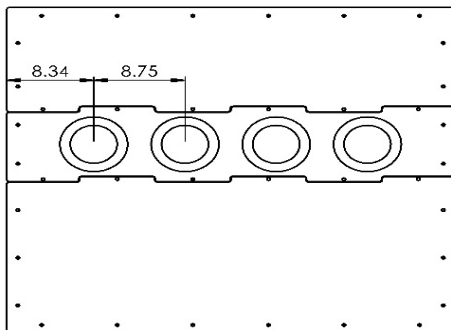
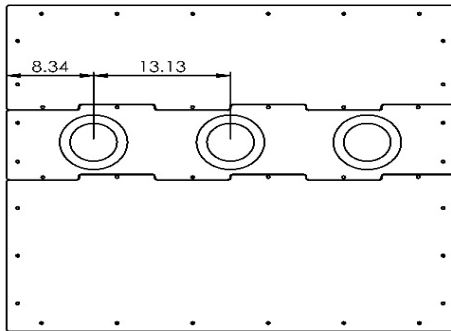
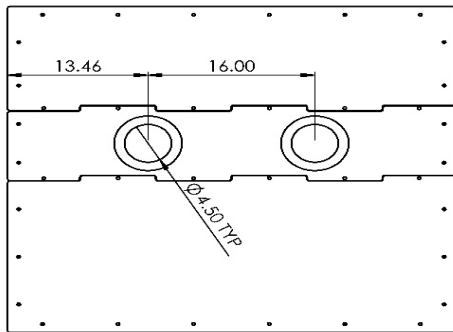
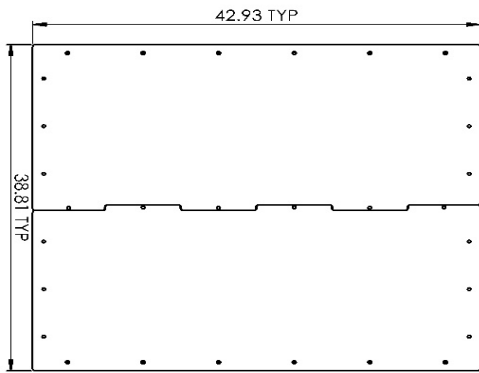


EQ-742 EQ-801 EQ-836



THIRD-PARTY UL 2447





SECTION A-A



"Better By Design"

48x48x48 Single & Double Wall Transition Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Transition Sump Systems.



Adjustable height 48x48x48



Optional Electronics Installed

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

DPM's transition sumps are often mounted with lids at grade level with either Stainless Steel or Aluminum diamond plated split lids. Two of the three sections of the of the split lid are designed to be easily removed and replaced for service.

Transition sumps are completely gasketed for a rain tight installation.

48x48x48 Deep Transition sumps are often used to support Change of direction for larger piping systems.

Where Transition sumps are designed for below grade to above grade applications, a steel or stainless steel J Pipe is used eliminating a flex joint in the sump.

48x48x48 Transition sumps may be ordered with all stainless trim including the inside rails, split lid and J Pipe generally for DEF Applications.

Transition sumps optionally may be ordered with the electronics installed or with a mounting bracket for the sensor selected.

Available in Single Wall or Double Wall Configurations.

48x48x48 Transition Sumps may be ordered with Rack assemblies for up to four lines.

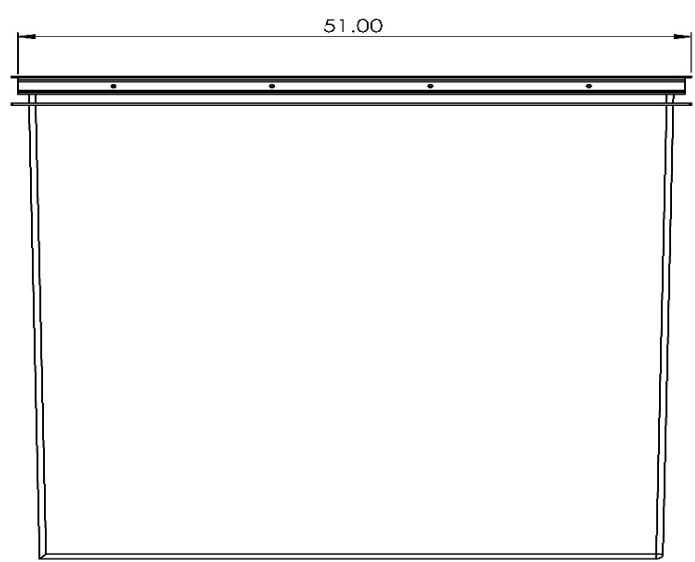
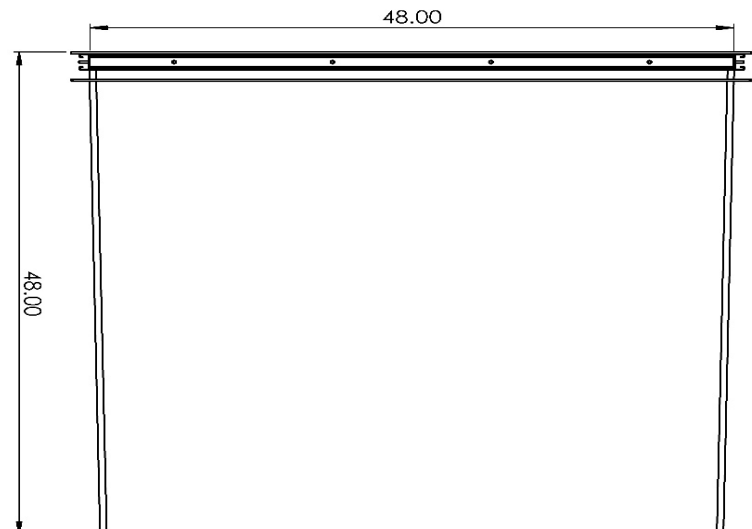
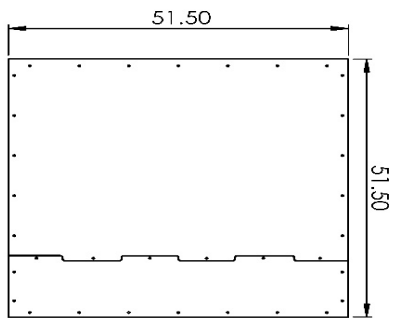
Third Party Approvals



EQ-742 EQ-801 EQ-836

THIRD-PARTY UL 2447







"Better By Design"

Pipe Racks for Transition Sumps and Vapor/Vent Sumps

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Engineered Pipe Racks for Vapor Vent Sumps & AST Transition sumps



24x24 Transition Sump with Rack & Split Lid

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

DPM's racks may be independently mounted or when purchased with a DPM's transition sump, the rack receivers are shipped integral with the sump.

Racks are manufactured out of tubular steel and are Epoxy Powder Coated.

DPM's Racks are third party reviewed and approved for use with Cannisters.

Pipe Racks come with clamps for all lines on both cross bars. Clamps are available for 3/4", 1", 2" and 3" nominal pipes

Racks are designed to mount as an intergral part of Diversified 24x24, 40x24 & 40x36 Transition sumps.

Racks mount on Diversified's single wall and double wall transition sumps.

Racks support up to 4 risers from 3/4" through 3" Nominal

Third Party Approvals



Registered Professional Engineer
Lic # 697833





"Better By Design"

Compact 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. 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.



Direct Burial Compact Penetration

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

The Compact Fitting has a body, nut, compression nut, and seal. For those installing pipe in a Corrugated Duct, there is a terminating reducer that provides a water tight seal between the ducting and the penetration fitting.

Compact Penetrations are pressure tested in excess of 60 psi without leakage. Refer to DPM's test Data Summary.

Compact Penetrations may be used with flex pipes terminating with male swivel, sanitary, or barbed connections.

Compact Penetrations are available for all Pipe manufacturers including Flex Pipes, Metric Pipes, Semi rigid Pipes and Fiberglass Pipe.



Compact Penetration with Corrugated Duct Seal

Third Party Approvals

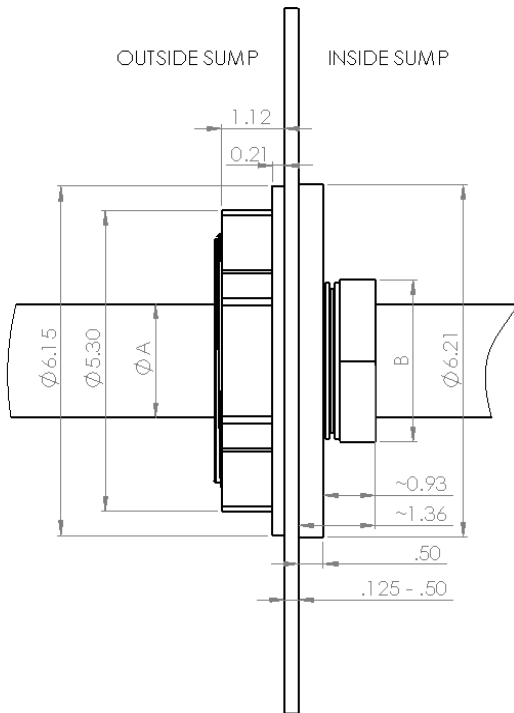
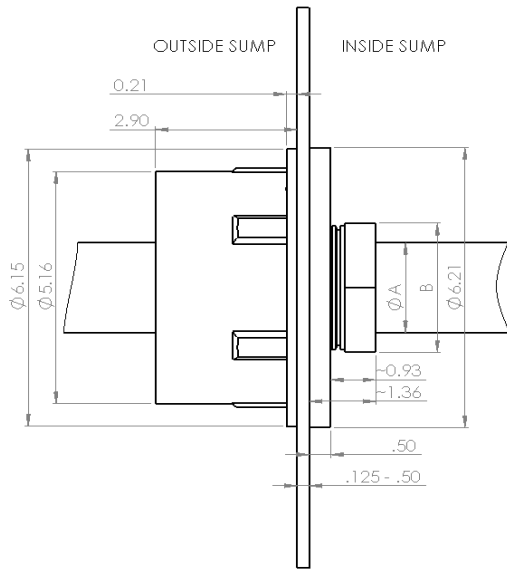


EQ-742 EQ-801 EQ-838



THIRD-PARTY UL 2447





A	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-1.55	Omegaflex	UGF-FSP-216

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-2.30	Omegaflex	UGF-FSP-24
PF-FGC-2.32	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-2.93	Omegaflex	UGF-FSP-32
PF-FGC-3.00	Brugg	SEC 50
PF-FGC-3.30	Brugg	HL 60/83

Size	B
Small	3.18"
Medium	4.03"
Large	



"Better By Design"

Compact Fiberglass Penetrations for APT Flex Pipe

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.

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

The Compact Fitting has a body, nut, compression nut, and seal. For those installing pipe in a Corrugated Duct, there is a terminating reducer that provides a water tight seal between the ducting and the penetration fitting.

Compact Penetrations are pressure tested in excess of 60 psi without leakage. Refer to DPM's test Data Summary.

Compact Penetrations may be used with flex pipes terminating with male swivel, sanitary, or barbed connections.

Size	Pipe	A	A
		Direct Burial	Corrugated Duct
1"	XP-100-SC	PF-FGC-1.47-DB	PF-FGC-1.47-CD
1 1/2"	XP-150-SC	PF-FGC-1.90-DB	PF-FGC-1.90-CD
1 3/4"	XP-175-SC	PF-FGC-2.15-DB	PF-FGC-2.15-CD
2"	XP-200-SC	PF-FGC-2.65-DB	PF-FGC-2.65-CD

Consult the Fitting Matrix Chart for Single Wall Product Numbers

Third Party Approvals



EQ-742 EQ-801 EQ-836

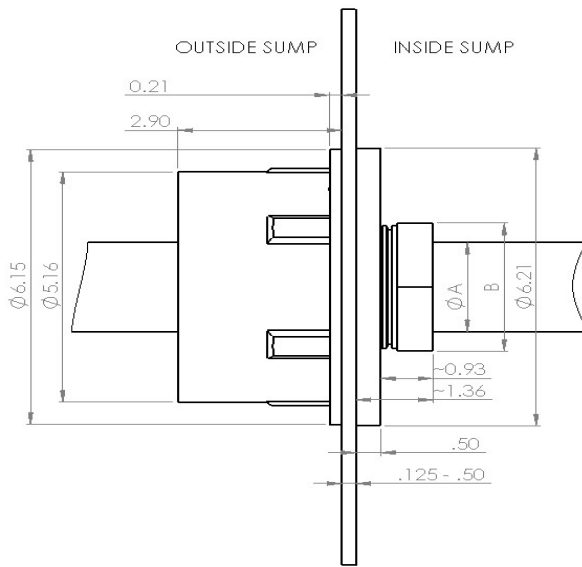


THIRD-PARTY UL 2447



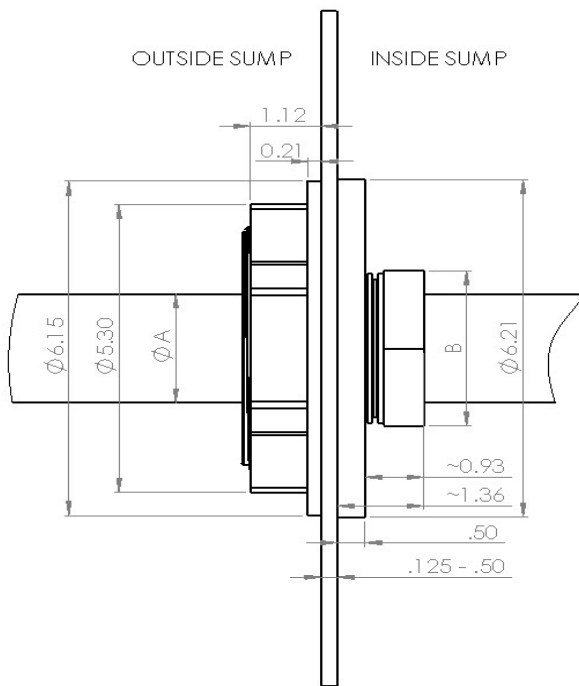
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530-534-3966 - www.dpm-co.com - Order Entry Email: sales@dpm-llc.com





B
 Small Nut 3.18"
 Medium Nut 4.03"
 Large

Compact Fitting for Corrugated Duct Application



Direct Burial Application

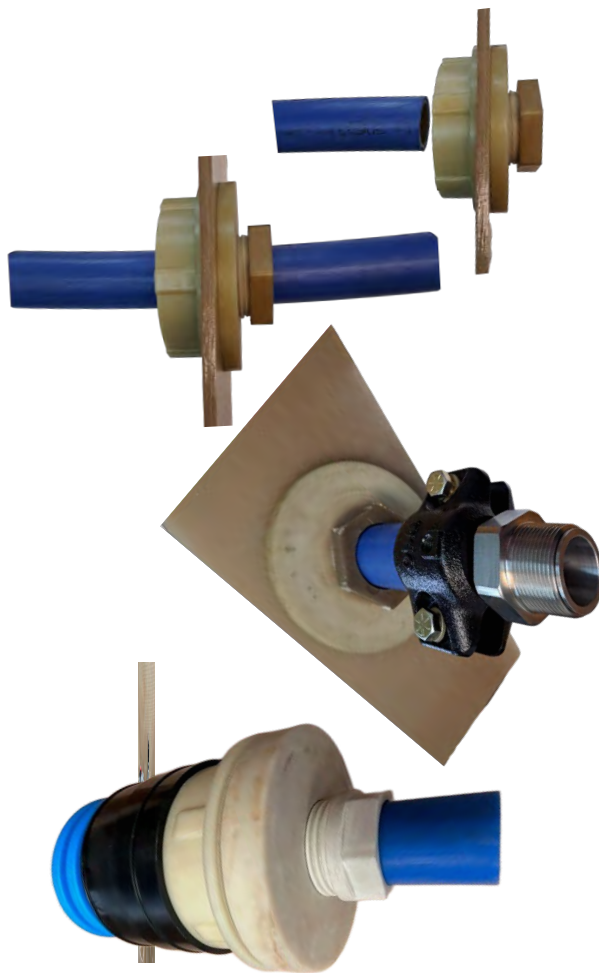


"Better By Design"

Compact Fiberglass Penetrations for OPW Flexworks Pipe

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.



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

The Compact Fitting has a body, nut, compression nut, and seal. For those installing pipe in a Corrugated Duct, there is a terminating reducer that provides a water tight seal between the ducting and the penetration fitting.

Compact Penetrations are pressure tested in excess of 60 psi without leakage. Refer to DPM's test Data Summary.

Compact Penetrations may be used with flex pipes terminating with male swivel, sanitary, or barbed connections. While available for all pipes, the table below features fittings for OPW flexworks Pipe.

Size	Pipe	Direct Bury	Corrugated Duct
3/4"	C-075A	PF-FGC-1.18-DB	PF-FGC-1.18-CD
1"	C-10A	PF-FGC-1.50-DB	PF-FGC-1.50-CD
1 1/2"	C-15A	PF-FGC-2.00-DB	PF-FGC-2.00-CD
2"	C-20A	PF-FGC-2.45-DB	PF-FGC-2.50-CD

Third Party Approvals



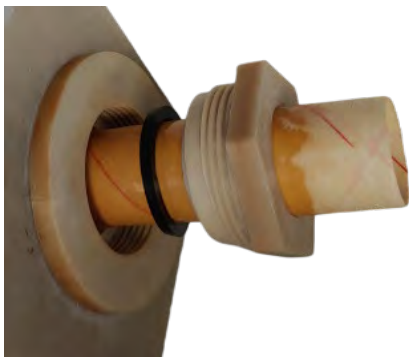


"Better By Design"

Fiberglass Penetrations for NOV Fiberglass Pipe

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 FRP 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.



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

The Compact fitting has a body, nut, compression nut, and seal. For those installing pipe in a corrugated duct, there is a terminating reducer that provides a water tight seal between the ducting and penetration fitting.

Compact Penetrations are pressure tested in excess of 60 psi without leakage. Refer to DPM's test Data Summary.

Compact Fitting Components for NOV Pipe

Compact Penetrations may be used with flex pipes terminating with male swivel, sanitary, or barbed connections.



Compact Penetrations may be used with NOV Fiberglass Pipe Consult factory for LCX Options

Tightening Compression Nut for NOV Pipe

Size	Pipe	Product Number	A Pipe OD
2"	Red Thread IIA	PF-FGC-2.3 DB	2.37
2"	Dualoy 3000/L	PF-FGC-2.3 DB	2.37

Third Party Approvals



EQ-742 EQ-801 EQ-836



THIRD-PARTY UL 2447

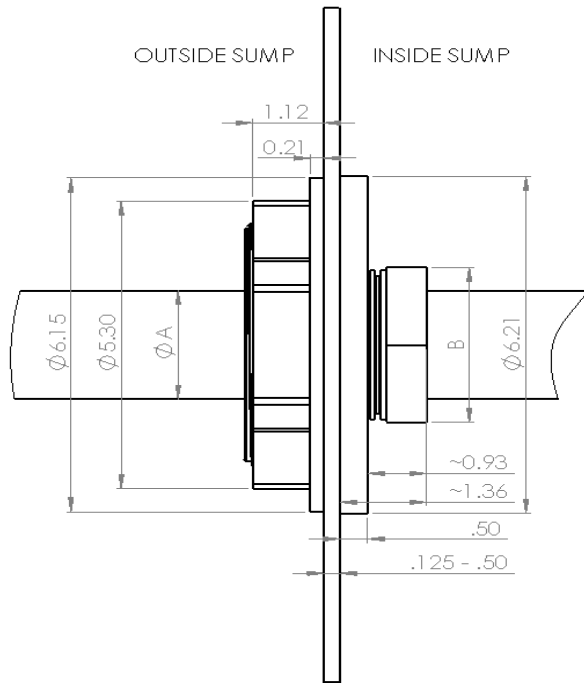


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B

Medium Nut **4.03"**
Large Nut



Compact Fitting for NOV Fiberglass Pipe



"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.



Tapored End for 2 or 3" FRP

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

The "FGT" series fitting has a body & nut. The FRP pipe is extended into the sump as an integral part of the fitting. Ends terminating inside the sump may be tapered to match 2" or 3" FRP pipe or may be adapted to a 2" or 3" sanitary seals or may be provided with 2" or 3" FPT threads.

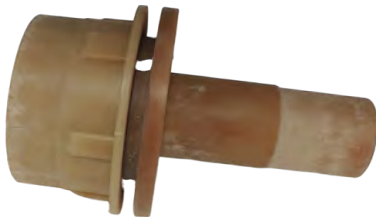


Stainless End with 2" or 3" FPT

"FGT" series penetrations are available with test and drain ports for interstice testing and drain back to the sump.

"FGT" series penetrations are available for 2" & 3" single wall fiberglass, 2" & 3" LCX, and 3" over 2" or 4" over 3" fiberglass.

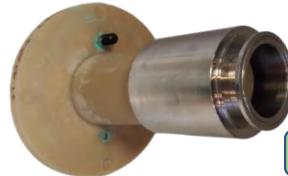
A unique series of The "FGT" fitting has a large Hex head on the sump exterior suitable for threading in 2" or 3" MPT pipe.



Nut shown for double wall Applications

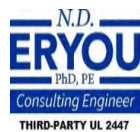
Nut shown accomodates 2" LCX, 3" over 2", 3" LCX & 4" over 3".

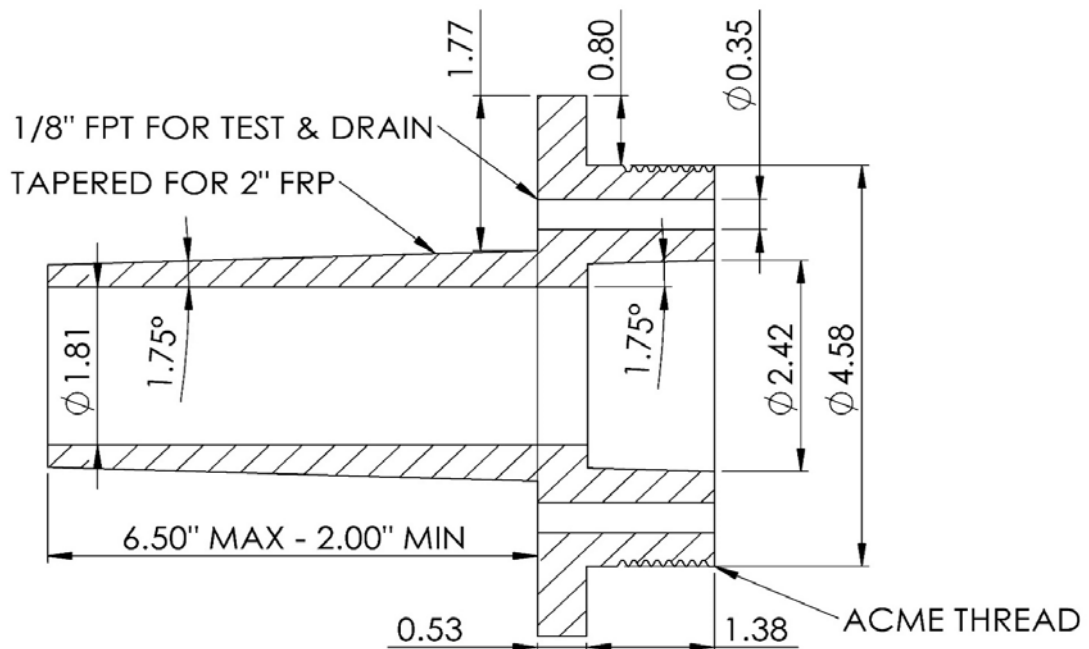
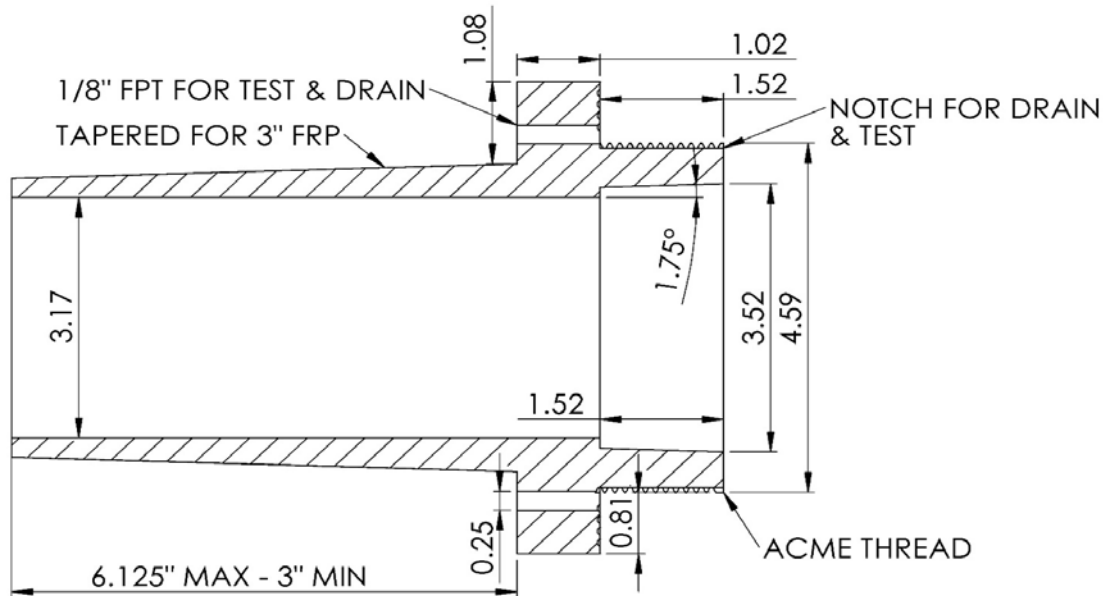
Body Shown includes a test valve and drain port.



Shown with Test & Drain openings

Third Party Approvals







"Better By Design"

"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.

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



Shown from sump exterior

The "BC" series fitting has a only a bonded body & no nut. The steel pipe is extended into the sump through a bore in the fitting. The fitting is directly bonded to the pipe and to the sump wall.

"BC" series penetrations are available for 3/4" rigid and 1" rigid conduits.



Shown with conduit nipple

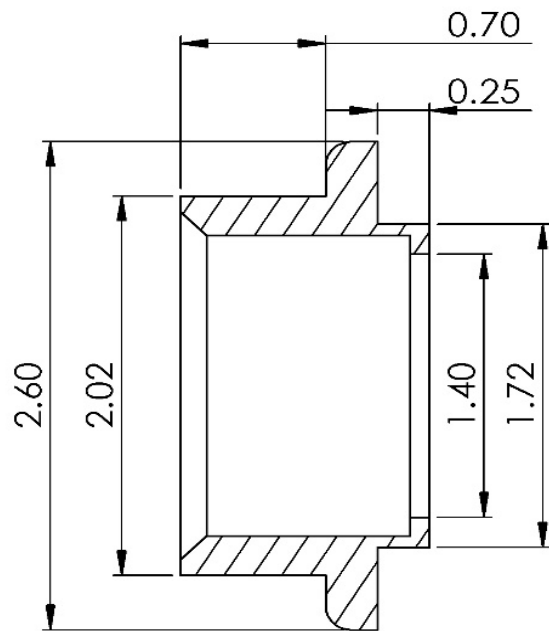
Shown installed from sump exterior



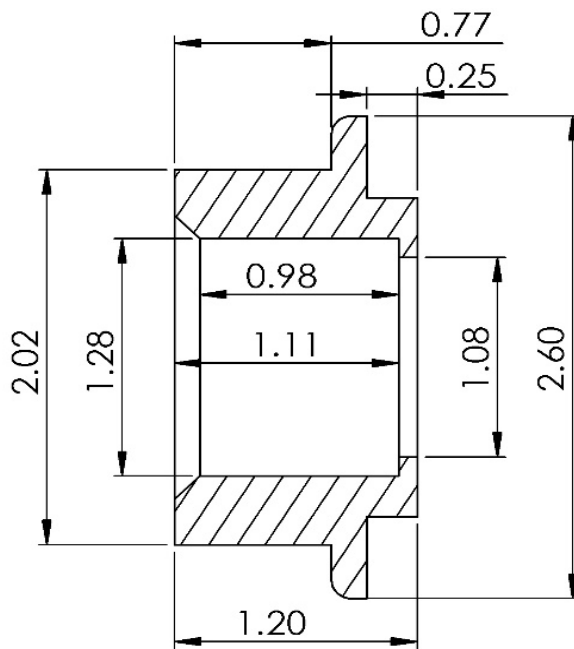
Shown installed from sump interior

Third Party Approvals





PF-BC-1.4 1" Bonded Conduit Fitting



PF-BC-1.1 3/4" Bonded Conduit Fitting



"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.



Factory Installed "208" Sensor

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

The SU-SMK is standard for Veeder Root "208" series sensors. If other sensors are specified, DPM can provide those as well.

Wiring may be factory installed through a Unilet, Seal off and extended through a waterproof fiberglass fitting to the sumps exterior. This is often accomplished in UDC's and Transition sumps.



SU-SMK for field installation

Optionally the wiring may be left loose to be run by the electrician through the frame of a UDC.

The sensor kits are often supplied for tank sumps where it is more convenient for field installation.



Various Factory installed options for UDC's and Transition Sumps

Third Party Approvals





"Better By Design"

Vapor Pots

Technical Data Sheet

Since the introduction of EPA driven regulatory activities in 1988, contractors have been purchasing components to comply with these regulations. Multiple manufacturers offered products and contractors had to sort out all dimensional issues, compatability between manufacturers and had to have complex estimating procedures. Diversified has now solved these and other problems with the introduction of our Vapor Pots for Engineered Systems Systems.



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

DPM's stand alone vapor pots are provided without sensors or other components. Standard with one 3" FPT opening and three 2" FPT Openings.



Transition sump mounted Vapor pots are a complete engineered system.

3" Vapor line input to a 2" Vent riser

2" Extraction riser with 1" extraction line with 1" MPT thread for draining liquids with sealing cap

2" Sensor riser with a Veeder Root "420" sensor mounted and wired to the top of the transition sump with sealing cap.

Mounts inside DPM's 40x36x48 Transition sump

Vapor Pots are connected with Sanitary fittings allowing removal of the vapour pot after installation.

Third Party Approvals

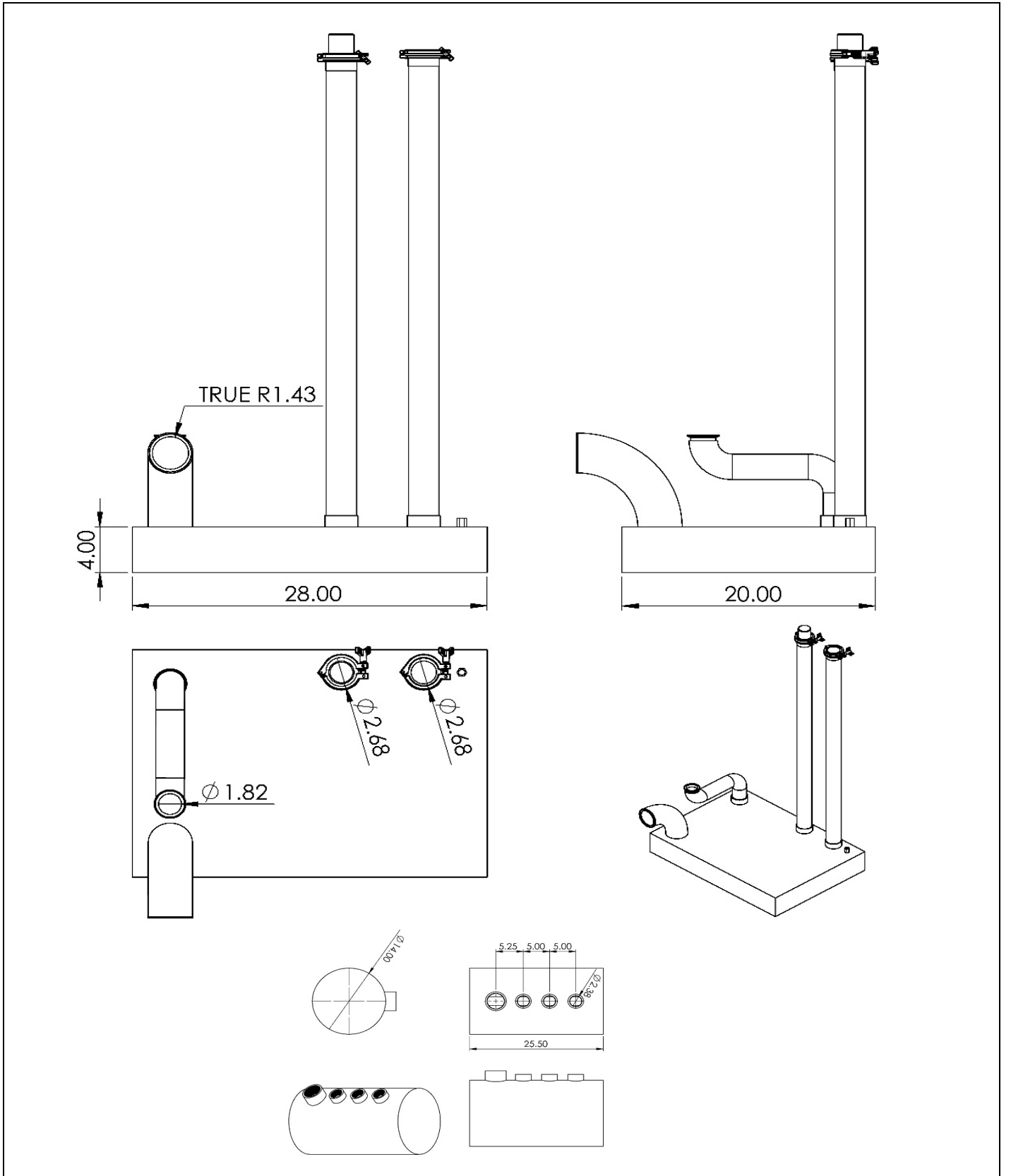


EQ-742 EQ-801 EQ-836



THIRD-PARTY UL 2447





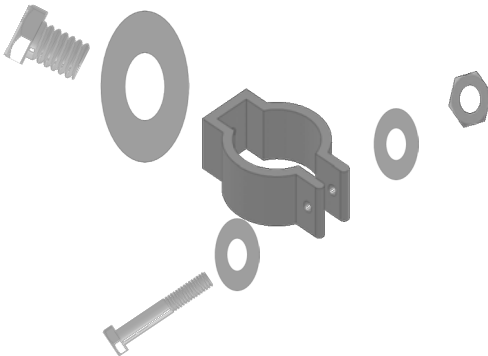


"Better By Design"

Conduit Mounting Brackets

Technical Data Sheet

Since the introduction of EPA regulations for Underground Storage Tanks in 1988, there has been a need for sumps with access for electrical connections. Electrical entry into Under Dispenser Containment is made easier by stabilizing the conduits to the side of the sump. This is easily accomplished when conduits are installed into the dispenser from below the dispensers frame. Conduit Mounting Kits stabilize the conduits and secure them to the sump wall. Up to 8 conduit mounting brackets may be installed on a 24" wide sump.

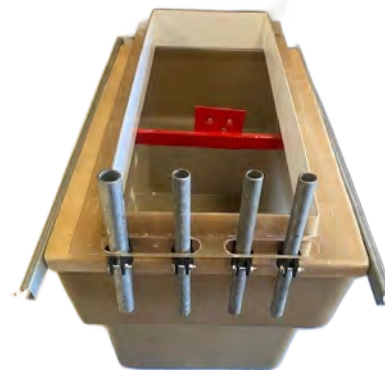


Conduit Mounting brackets do not require UL or third party listings.

Conduit Mounting Brackets are available for 3/4" and 1" Rigid Conduits

Conduit Mounting Kits are field installed and are shipped in a kit or loose in the dispenser sump.

Conduit Mounting kits include an injection molded clamp for the conduit size selected and mounting hardware.



Third Party Approvals



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THIRD-PARTY UL 2447



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"Better By Design"

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 products have been tested with our repair and new construction products 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 Epoxy Bonder are companion products designed to be used together.



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

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

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

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



CH-DFB



CH-DSM-V



\$50 Hazmat fee on air shipments

For CH-DFB & CH-DBC II

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

Third Party Approvals

Products Used on this Project



EQ-742 EQ-801 EQ-836



THIRD-PARTY UL 2447



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





"Better By Design"

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

Technical Data Sheet

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

Product Characteristics		Environmental Resistance		
Technology	Cyanoacrylic/Eposy		% of Initial Strength	
Chemical type (Part A)	Cyanoacrylate	Environment	Deg C	100 h
Chemical type (Part B)	Epoxy	Water	22	90
Appearance (Comp A)	Straw Color	Water	60	80
Appearance (Comp B)	Off-White	Motor Oil	40	120
Appearance Mixture	Light Yellow	Water/Glycol 50/50	87	50
Components	Two-Part Requires Mixing	Gasoline (unleaded)	22	95
Mix Ratio by Weight	Resin 1: Hardener 1	Ethanol	22	85
Mix Ratio by volume	Resin 1: Hardener 1	Isopropanol	22	100
Viscosity	High	98% RH	40	85
Cure	Room Temp after Mixing	96% RH	65	95
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		
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 Cured Materials		Properties of Uncured Materials	
Cured for one week @ 22 C		Cured for 168 hrs @ 22 C	
Shore Hardnes "D"	65-69	Lap Shear Strength, ISO 4587	
Glass Trans Temp 0 C	88	Aluminum Degreased	7.6 N/mm2
Elongation	3.5	Aluminum Etched	13 N/mm2
Tensil Strength	7.1 N/mm2	Zinc Chromate	9.1 N/mm2
Tensil Modulus	565 N/mm2	Stainless Steel	15 N/mm2
		ABS	5.2 N/mm2
		Polycarbonate	6.9 N/mm2
		Wood (Oak)	4.8 N/mm2
		Epoxy	9.1 N/mm2
		Polyethylene	.5 N/mm2

Third Party Approvals

Products Used on this Project



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"Better By Design"

Sanding Hole Saws

Technical Data Sheet

Proper Hole saw selection for penetration fittings is key to having a tight sump. After the hole is cut, then the sump should be sanded to remove all gel coat and to smooth rough fiberglass surfaces on the surfaces to be bonded.. This can now be accomplished with one step with Diversified's Sanding Hole Saws. Sanding hole saws are manufactured to match the penetration fitting's diameter and provided a smooth relief for the diameter of the bonding surface. An additional slight relief is designed for excess epoxy to easily compress to the outside of the fitting.

Sanding hole saws are available for all penetrations made up to 6 1/2" Diameter.

Sanding hole saws are industrial grade carbide tipped

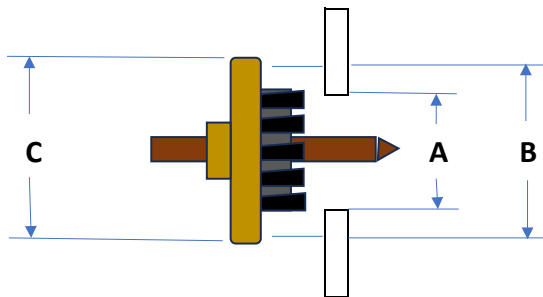
The hole saw is backed with an aluminum disc with an abrasive surface.

Abrasive surfaces are replaceable in the field by bonding on commercial sand paper of the grit desired.




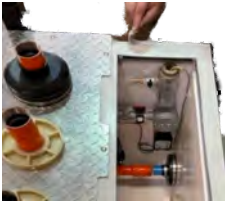
Reduces labor by doing two operations at the same time.






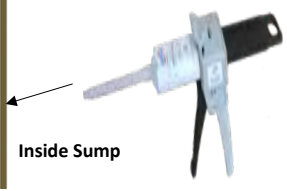
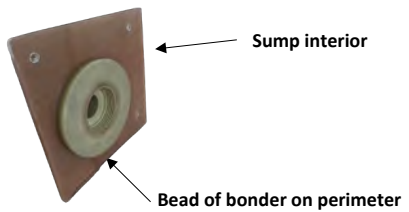


Assures a smooth, even bonding surface for penetration fittings.





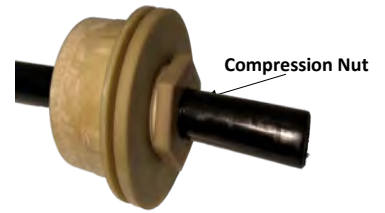
A Hole Saw	B Bonding Diameter	C SHS Diameter	Product Number	Application	Sump
1 3/4	2.61"	2.68"	PF-SHS-1.75x2.8	Bonded Electrical Conduit 3/4"	Single Wall
1 3/4	2.61"	2.68"	PF-SHS-1.75x2.8	Bonded Electrical Conduit 1"	Single Wall
2	2.97	3	PF-SHS-2x3	B2 Threaded Traditional Design	Single Wall
3.5	5.04	5.2	PF-SHS-3.5x5.2	B3.5 Threaded Traditional Design	Single Wall
5	6.54	6.7	PF-SHS-5x6.7-	B5 Threaded Traditional Design	Single Wall
6	7.43	7.6	PF-SHS-6x7.6	B6 Threaded Traditional Design	Single Wall
2 1/4	4.34	4.5	PF-SHS-2.25x4.5	4 Stud Traditional Design	Single Wall
4"	6.34	6.5	PF-SHS-4x6.7	8 Stud Traditional Design	Single Wall
5 1/2	7.96	8	PF-SHS-5.5x8	10 Stud Traditional Design	Single Wall
4 1/2	6.25	6.38	PF-SHS-4.5x6.38	FGC & FGT Fiberglass Fittings	Single Wall
5	6.55	6.85	PF-SHS-5x6.85	Omegaflex Fiberglass Compact Fittings	Single Wall
2	2.61"	2.68"	PF-SHS-2x2.8	2" Interstice seal for Bonded Electrical Conduit 3/4"	Double Wall
2	2.61"	2.68"	PF-SHS-2x2.8	2" Interstice seal for Bonded Electrical Conduit 1"	Double Wall
Contact Factory for Applications					
5	6.25	6.38	PF-SHS-5x6.38	Interstice Seal for FGC & FGT Fiberglass Fittings	Double Wall
5 1/2	6.55	6.85	PF-SHS-5.5x6.85	Interstice Seal for Omegaflex Fiberglass Compact Ftg	Double Wall

<h1>SU-CII-Transition Sumps</h1>		<h2>Installation Instructions</h2>		
		<h3>Engineered Fiberglass Transition Sumps</h3>		
		<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to Completing the installation steps below.</p> <p>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.</p> <p>Prepare Sump Surfaces: Rough Up (sand) all sump surfaces to be bonded. Remove all gel coat on all fiberglass surfaces.</p> <p>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.</p> <p>Bond Penetration Fittings: After Cleaning & Drying apply fiberglass bonder CH-DFB to both surfaces to be bonded. Be sure there is a bead of epoxy all around the bonded components. If not start over.</p>		
 Diversified Products Manufacturing	 Weaver Products			
<p>Step 1</p> <p>Receive the Transition Sump: Uncrate the Sump and verify there is no damage. Any damage must be reported within 48 hours of receipt to activate the warranty. Verify the product received is what was ordered. Note: Double Wall Sumps are pre manufactured systems, with all plumbing and wiring complete.</p>				
<p>Step 2</p> <p>Pre Manufactured. If you have purchased a Basic Unit, install the penetrations, pipe, hardware & electrical per the manufactureres recommendations. If you purchased a pre manufactured unit, the sump is ready to intall when received. The split lid is intended to have one side sealed and the other side removable.</p>				
<p>Step 3</p> <p>Mount Sump: Set the sump on a 6" deep bed of pea gravel or other locally approved materials. The sump should never be set on native soils. Most Transition sumps come complete with concrete anchors installed on the perimeter of the sump. After mounting it is best to secure the sump to structural members at the site prior to piping and wiring.</p>				
<p>Step 4</p> <p>Pipe & Wire the Sump: Run below grade piping and bond to the penetration fittings per the installation instructions for the fittings. Run above grade piping and connect to the "J" pipe risers. Connect wiring to the alarm sensor(s) per code.</p>				
<p>Step 5</p> <p>Hydrostatic Test Sump ?? Single Wall transition sumps are hydrostatically tested at the factory. These sumps have a certificate bonded to the sump surface. Hydrostatic testing of a double wall sump is not factory recommended. The brine is installed at the factory under 4 psig pressure. Should a leak occur it will be obvious due to spillage or the system, lack of pressure on the interstice and the system will be in alarm at the console. A hydrostatic test could affect the operation of the alarm sensors. All piping is pressure tested to 75PSIG at the factory and is tagged.</p>				
<p>Step 6</p> <p>Pour Concrete: After all necessary inspections have been completed, install the J Bolts through the frame and pour concrete. Concrete should be at the same level of the flange.</p>				
<p>Tools Required</p> <p>5/16 Nut driver 4 1/2 Hole Saws for penetrations if ordered with the sump.</p>		<p>Products Needed</p> <p>ES-TSF Engineered System</p>	<p>Additional Products Needed</p>	

<h1>PF-FGC-CII</h1>	APT Brugg OPW	<h2>Contractor Installation Instructions</h2>		
		<h3>Compact Penetrations for Corrugated Ducted Applications</h3>		
 Diversified Products Manufacturing Inc.	 Weaver Products	<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>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.</p> <p>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.</p>		
		<p>Step 1</p> <p>Hole Preparation: Drill a 4.5" Diameter hole where the fitting is to be installed. Sand around the hole 1 1/2" on the inside of the sump. (The nut is on the sump exterior and is bonded only when a water tight joint is required with the corrugated ducting.)</p>	<p>Hole Saw 4.5"</p> <p>Minimum Spacing between Centers 6.5"</p>	
<p>Step 2</p> <p>Dry fit the fittings: Dry fit. If you have trouble fitting the penetration in the hole, recheck the hole.</p>				
<p>Step 3</p> <p>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.</p>		Sump Exterior		
<p>Step 4</p> <p>Secure fitting to sump wall: Install the nut and hand tighten to secure fitting to sump wall. When installing, there should be enough bonder so a small bead escapes the perimeter of the fitting when tightened. If no bonder is present, remove fitting and apply again. Allow bonder to cure.</p>				
<p>Step 5</p> <p>Water Tight Corrugated Ducting: If a water tight seal is required for the corrugated ducting, the nut must also be bonded to the sump wall. See step 4 above and apply to the nut.</p>				
<p>Step 6</p> <p>Prepare the pipe for installation: Slide the terminating reducer and corrugated duct seal over the corrugated ducting prior to installing the product carrying pipe into and through the penetration fitting.</p>				

Step 7

Install the pipe: Push the product carrying pipe through the fitting. Install the seal around the pipe and push into the fitting cavity. Turn in the compression nut hand tight to seat the seal. Tighten with the tool to 20-25 ft lb Torque.



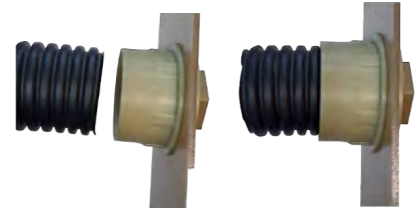
Step 8

Tighten the compression nut: Once the pipe is connected to its mating system component (flex connector or other terminating device), test the product carrying lines. A hand tight nut has produced no leaks at 5 psi test pressure. Torque the compression nut to 20-25 ft lbs. When torque on the compression nut is applied at 25 PSI the resulting test has yielded a pass rating in excess of 60 PSIG. This is best accomplished by using the PF-FGC Tool Kit. The sump may be tested at any time after tightening all Compact Penetration Fittings. This completes the installation on Direct Burial Systems



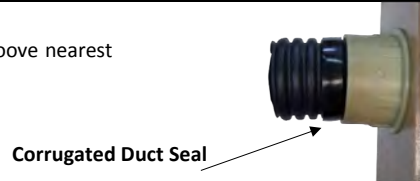
Step 9

Connect Corrugated Duct: Push corrugated duct into the tailpiece of the penetration fitting. Push until it snaps in place. **Warning - the corrugated ducting will be difficult to remove once installed. Be sure you are ready to perform this step.**



Step 10

Move Corrugated Duct Seal: Place the corrugated duct seal in the groove nearest the penetration fitting.



Step 11

Install the Boot: Slide the boot in place. Push the front edge of the boot forward until it stops on the shoulder of the penetration fitting.



Step 12

Tighten Band Clamps: Tighten clamps but do not exceed 60 inch lbs. The installation should be complete.



Step 13

Completed installations inside the sump.






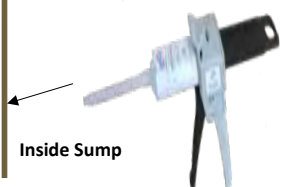
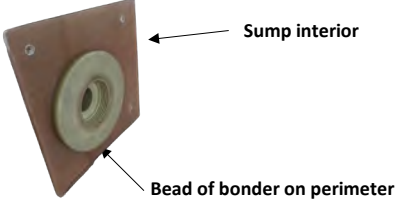
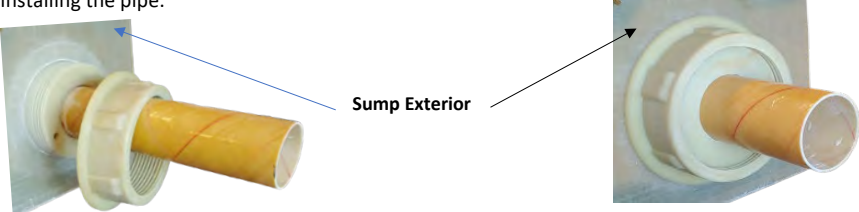


Tools Required

- Sand paper for sump wall and pipe
- 4.5" hole saw
- CH-DAG III applicator gun for CH-DFB bonder

Products Needed

- PF-FGC - see product selection matrix to complete the product #
- CH-DFB 50ml Epoxy Bonder - will do three fittings
- CH-DBC II Aerosol Cleaner - will do 10 fittings
- PF-FGC-S-Tool or PF-FGC-L-Tool Spanner Wrenches

<h1 style="text-align: center;">PF-FGC-CII</h1>		<p style="text-align: center;">NOV Fiberglass</p>	<h2 style="margin: 0;">Contractor Installation Instructions</h2> <h3 style="margin: 0;">Compact Penetrations for Fiberglass Pipe & Direct Burial Flex Pipe Applications</h3>		
			<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>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.</p> <p>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.</p>		
					
<p>Step 1</p> <p>Hole Preparation: Drill a 4.5" Diameter hole where the fitting is to be installed. Sand around the hole 1 1/2" on the inside of the sump. (The nut is on the sump exterior and is not bonded).</p>					
			<p>Hole Saw 4.5"</p> <p>Minimum Spacing between Centers 6.5"</p>		
<p>Step 2</p> <p>Dry fit the fittings: Dry fit. If you have trouble fitting the penetration in the hole, recheck the hole.</p>					
					
<p>Step 3</p> <p>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.</p>					
				<p>Sump Exterior</p> 	
<p>Step 4</p> <p>Secure fitting to sump wall: Install the nut and hand tighten to secure fitting to sump wall. When installing, there should be enough bonder so a small bead escapes the perimeter of the fitting when tightened. If no bonder is present, remove fitting and apply again. Allow bonder to cure.</p>					
					
<p>Step 5</p> <p>Direct Burial Applications: Thread on the nut. It does not need to be bonded. The nut may be installed either before or after installing the pipe.</p>					
					

Step 6

Install the pipe: Push the product carrying pipe through the fitting. Install the seal around the pipe and push into the fitting cavity. Turn in the compression nut hand tight to seat the seal. Tighten with the tool to 20-25 ft lb Torque.



Push pipe through Fitting



Install seal & nut



Seat the seal and thread in nut.

Step 7

Tighten the compression nut: Once the pipe is connected to its mating system component (flex connector or other terminating device), test the product carrying lines. A hand tight nut has produced no leaks at 5 psi test pressure. Torque the compression nut to 20-25 lbs. When torque on the compression nut at 20 psi is applied the resulting test has yielded a pass rating in excess of 60 PSIG. This is best accomplished by using the PF-FGC Tool Kit. The sump may be tested at any time after tightening all Compact Penetration Fittings. This completes the installation on fiberglass lines that will be buried.







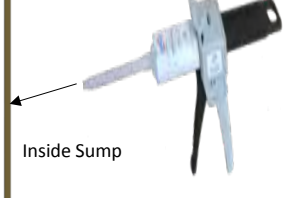
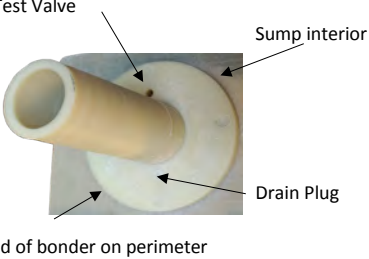

Tighten Nut

Tools Required

- Sand paper for sump wall and pipe
- 4.5" Hole saw
- CH-DAG III applicator gun for CH-DFB bonder

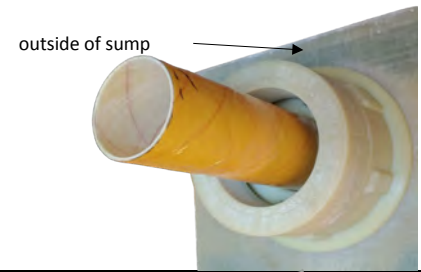
Products Needed

- PF-FGC - see product selection matrix to complete the product #
- CH-DFB 50ml Epoxy Bonder - will do three fittings
- CH-DBC II Aerosol Cleaner - will do 10 fittings
- PF-FGC-S-Tool or PF-FGC-L-Tool Spanner Wrenches

<h1>PF-FGT-CII</h1>		<h2>Contractor Installation Instructions</h2>	
		<h3>Fiberglass Penetrations for FRP piping Systems</h3>	
 Diversified Products Manufacturing Inc.	 Weaver Products	<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
		<p>Step 1</p> <p>Hole Preparation: Drill a 4.5" Diameter hole where the fitting is to be installed. Sand around the hole 1 1/2" on the inside of the sump. (The nut is on the sump exterior and is bonded only when a double wall piping system is used).</p> <p style="text-align: right;">Hole Saw 4.5" Minimum Spacing between Centers 6.5"</p> 	
<p>Step 2</p> <p>Dry fit the fittings: Dry fit. If you have trouble fitting the penetration in the hole, recheck the hole.</p>			
<p>Step 3</p> <p>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.</p>			
<p>Step 4</p> <p>Warning: For the first time installer of these products, follow the steps 5-9 dry fitting at each step. Be sure you understand the process completely. It is easy to miss a step and create a lot of costs to correct the process. Also, prior to each bonding step, be sure to clean with CH-DBC II. Air dry or wipe dry with a clean dry cloth.</p>			
<p>Step 5</p> <p>Secure fitting to sump wall: Sand and clean the grooved flange on the penetrations body and the sump wall to be bonded. Apply the CH-DFB bonder evenly to the body and the sump's interior surface. Place the body in the 4 1/2" hole seat and turn 1/4 deg approx. Make sure the test port is at the top of the fitting. Install the nut on the outside of the sump and hand tighten to secure the body to sump wall. When installing, there should be enough bonder so a small bead escapes the perimeter of the body when tightened. If bonder is missing, remove fitting and apply again. Allow bonder to cure. Do not allow bonder to get on the Nut.</p>			
<p>Step 6</p> <p>Install Nut & Primary Pipe: Use NOV tapering tools and follow pipe manufacturers instructions to taper and/or scarf the ends of pipe to be installed in a DPM system. When installing the primary pipe into the body, clean components to be bonded and apply CH-DFB bonder completely around the tapered end of the pipe and also apply to the receiving tapered body. When installing the primary pipe push into the body. The body has a 1 3/4 deg taper to match NOV specifications for tapered fittings. If possible turn pipe 1/4 turn to seat the pipe into the epoxy. Do not allow the epoxy to get onto the nut. Remove the nut from the penetration fitting and slide the nut over the secondary Pipe.</p>			
		Single Wall pipe applications use a different Nut.	

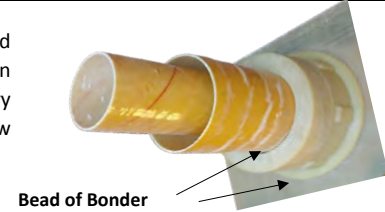
Step 7

Install the Nut and Secondary Pipe. Clean then apply bonder to the nut's flange and the 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.



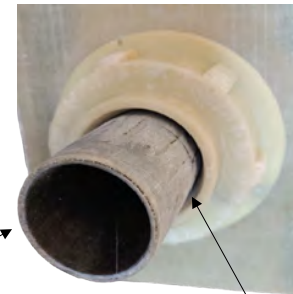
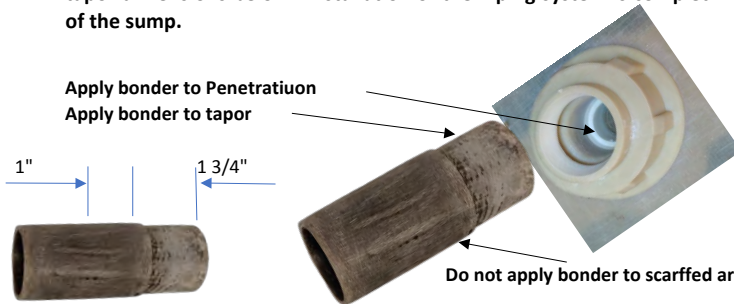
Step 8

When the primary test is completed: Clean and apply bonder to the interior of the tapered nut and the end of the tapered 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.



Step 9

For LCX systems: When tapering 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 taper 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 & taper dimensions below. Installation of the Piping system is complet. Now for the interior of the sump.**

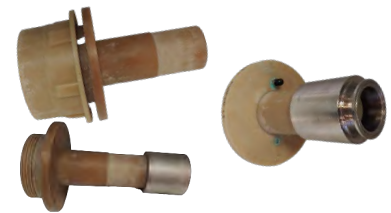


Insert pipe and rotate 1/4 turn

After testing Primary, pack penetration with Bonder

Step 10

The penetration fitting: is available in three configurations as shown to the right. One option is a tapered 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






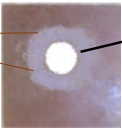






Complete the Piping for the interior of the sump. Test as required.


















Tools Required

- Sand paper for sump wall and pipe
- 4.5" hole saw
- NOV approved tapering and scarfing tool
- CH-DAG III applicator gun for CH-DFB bonder

Products Needed

- PF-FGT - penetration fitting series
- CH-DBC II Aerosol Cleaner 8 fittings per can
- CH-DFB 50ml Epoxy Bonder
 - For Single Wall fitting estimate 15 ml
 - For Double Wall fittiings estimate 40 ml

<h1>PF-BC-1.1 & PF-BC-1.4 CII</h1>		<h2>Contractor Installation Instructions</h2>	
		<h3>Bonded Conduit Fiberglass Fittings</h3>	
 <p>Diversified Products Manufacturing Inc.</p>		 <p>Weaver Products</p>	
<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>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.</p> <p>Bonding to Steel and FRP surfaces: Clean and sand (rough up) sump surfaces. Remove all gel coat on all fiberglass surfaces. Apply CH-DFB V to all surfaces to be bonded both the fitting and sump wall.</p>			
<p>Step 1</p> <p>Bonded Kits consist of: a PF-BC-1.1 (3/4") or PF-BC-1.4 (1") Fiberglass injection molded fiberglass fitting. Fitting is suitable for bonding to a fiberglass sump and to steel pipe.</p> <p>Basic Bonded Conduit Fitting </p> <p>Conduit fitting with nipple </p>			
<p>Step 2</p> <p>Prepare the sump: Determine the location where the conduit will penetrate the sump. Mark and drill a 1 3/4" hole in the sump wall. On the outside of the sump, sand around the hole removing all gel coat. Clean the hole with CH-DBC II and let air dry or wipe dry with a clean dry cloth. Separate penetration fittings are manufactured to fit either 3/4" rigid conduits PF-BC-1.1 or 1" rigid conduits PF-BC-1.4.</p> <p> </p>			
<p>Step 3</p> <p>Prepare the fitting: The fitting may be installed as received without preparation. However, it is better to sand the fitting so that all surfaces to be bonded are roughed up. Clean the hole with CH-DBC II and let air dry or wipe dry with a clean dry cloth. Apply CH-DFB fiberglass bonder to the surfaces to be bonded both the sump wall and the penetration fitting.</p> <p> </p>			
<p>Step 4</p> <p>Install the fitting: Press the fitting into the hole and allow to cure for 12 hours prior to running the conduit through the fitting.</p> <p></p>			
<p>Step 5</p> <p>Prepare the conduit: Conduits may be run directly through the penetration fitting. If installing a nipple the nipple may be installed within 12 hours. If running a length of pipe through the fitting, that may apply force to the uncured epoxy it is best to wait 24 hours for installation. Dry fit and mark the location on conduit to be bonded. Sand and remove all foreign material and scuff the conduit. Apply CH-DFB bonder to the surface of the conduit to be bonded and install the conduit. Once the conduit is stable and will not be moved again, finish the bonding process by applying CH-DFB to all surfaces that have been bonded. Pack the lead in chamfers on the fiberglass fitting and wipe the epoxy to make a smooth joint.</p> <p></p>			
<p>Step 6</p> <p>Protect the conduit: Any metal conduit leaving the sump should be coated with CH-SB II. This soils barrier paint will prevent the conduits from corroding. In some locations painting the conduits inside the sump will prevent future degradation of the conduit.</p> <p> </p>			
<p>Tools Required</p> <ul style="list-style-type: none"> Sand paper for sump wall and pipe 1 3/4" hole saw CH-DAG III applicator gun for CH-DFB bonder 		<p>Products Needed</p> <ul style="list-style-type: none"> PF-BC-1.1 or PF-BC-1.4 - penetration fitting CH-DBC II Aerosol Cleaner 8 fittings per can CH-DFB 50ml Epoxy Bonder For Single Wall fitting estimate 8 ml 	

SU-SMK-CII		Contractor Installation Instructions	
		Sensor Mounting Kits	
 		<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>Cleaning: Spray all surfaces to be bonded with CH-DBC II Cleaner and wipe dry. Remove all gel coat on all fiberglass surfaces. Apply CH-DBB V to all surfaces to be bonded both the fitting and sump wall.</p>	
<p>Step 1</p> <p>Sensor Mounting Kits consist of: a SU-SMS Sleeve, A pipe clamp SU-PC-2.5 a Mounting bar SU-MB and hardware to secure the kit. Install the kit using Diversified's Epoxy bonder CH-DBB V. Order seperately from the kit.</p>			
    			
<p>Step 2</p> <p>Prepare the sump: The mounting bar should be mounted approximately 6" above the alarm cup in the floor of the sump. Sand an area approximately 2" square where the mounting bar is to be bonded to the sump wall. Clean the sump wall and the mounting bar (sanded side) with CH-DBC II prior to bonding. Allow the cleaner to air dry or wipe dry with a clean dry cloth. Apply a thin layer of bonder to the surface of the sump and the mounting bar.</p>			
		 	
<p>Step 3</p> <p>Install the mounting bar: Push the mounting bar onto the sump surface. Allow the epoxy to cure. Turning the sump on its side and letting the mounting bar rest on a horizontal plane can accomplish the curing task. Magnets may be used to hold the mounting plate in place while in the vertical position. Allow 24 hours for the bond to cure prior to installing the remaining components.</p>			
			
<p>Step 4</p> <p>Install the pipe clamp: The pipe clamp is secured to the mounting bar with 3/8-16 x 1/2" long bolt. Thread in bolt until the pipe clamp is snug to the mounting bar.</p>			
		  	
<p>Step 5</p> <p>Install the sleeve: The sleeve is designed to fit in the clamp and is bored out to accommodate a Veeder Root "208" sensor. Slide the sleeve into the pipe clamp and secure with the bolt & nut provided. The sleeve should be toward the middle of the pipe clamp. Tighten any loose components.</p>			
			
<p>Step 5A</p> <p>Four line UDC's: On Gilbarco 3+1+1 configurations where four lines are run, the sleeve needs to be rotated 45 deg to install the sensor. Once the sensor is installed rotate the sleeve to vertical with the sensor in place. The sleeve may be rortated to remove the sensor for maintenance at any time.</p>			
		 	
<p>Step 6</p> <p>Install the Sensor: When the project is ready, slide the sensor into the sleeve and allow the bottom of the sensor to rest on the bottom of the alarm cup. There is no tightening process for the sensor. Install the sensor wiring such that it is not in the way of the other components of the sump. The sensor may be removed at any time without disturbing the mounting kit or other sump components. About 8" of the sensor wiring should be coiled to allow for easy future removal.</p>			
			
<p>Tools Required</p> <ul style="list-style-type: none"> Sand paper for sump wall and pipe 4.5" hole saw NOV approved taporing and scarfing tool CH-DAG III applicator gun for CH-DBB V bonder 		<p>Products Needed</p> <ul style="list-style-type: none"> PF-FGT - penetration fitting series CH-DBC II Aerosol Cleaner 8 fittings per can CH-DBB V 50ml Bulkhead Bonder 10 kits may be installed with one cartridge set of CH-DBB V 	

SU-VVR

Installation Instructions

Pipe Racks

Racks for Vapor Vent Lines and For Transition from Above Ground Storage tanks to below grade.



Diversified Products
Manufacturing Inc.



Weaver Products

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

Racks are often required for supporting vent lines. Racks are mandatory where vapor cannisters must be installed. Diversified's racks can be installed as a stand alone unit or may be installed on any of Diversified's Retail or Commercial sumps. Diversified's racks have been reviewed and certified for the application by a Registered Civil Engineer in the State of California. Diversified's Rack system is epoxy powder coated. **Read these instructions**

Step 1

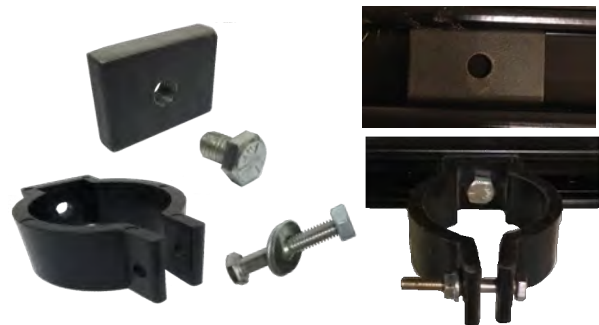
Install the receiver: A receiver is manufactured to be installed either independently directly into a concrete slab or attached to a Diversified sump. The receiver shown is mounted to one of Diversified's Poly sumps. When installing the rack system, make sure the edges of both receivers are parallel and installed so that the mounting hardware is accessible after installation. The bottom of the receiver has a welded cap to assure that the depth of the risers match. Install the receivers when the sump is installed. Care should be taken to position the receivers so that the piping will penetrate the top of the sump split lid in the correct location.

Warning: Installing the receivers in the wrong position will make the piping of the vents difficult. Measure before installing.



Step 2

Install the Mounting Bars & Pipe Clamps: Mounting bars slide into the unistrut system. Position the mounting bars to the approximate location needed for the vent pipes. Install the pipe clamps. Make sure there is one mounting bar assembly for every riser. This process should be done prior to installation of the cross braces.



Step 3

Install the cross braces: Two cross braces are provided that match the width of Diversified's retail sumps 40"x24". These braces may be cut down for installation on a commercial sump 24"x24". Loosely secure the cross braces with the hardware provided.



Step 4

Install the verticals: The verticals are 9'-6" long and mate to the receivers. Verticals may be shortened if desired to match field conditions. For clarity the verticals shown are mounted to a sump. The top of the sump is buried grade level on a typical installation. Secure the risers to the receivers by the set screws provided. It may be desirable to install the cross braces prior to installing the risers.



Step 5

Install the Vent Lines & Cannister where required: Follow the cannister manufacturers installation instructions. When installing the vent or AST Transition risers, align the pipe clamps and secure the clamp to the mounting bar once the location is determined. After completing the piping, tighten the band clamps around the risers with the hardware provided. Pipe Risers may extend above the Rack system. Comply with all local codes.



Step 6

Completed Installation: Note: The vent risers penetrate the sump through the split lid. This side of the sump is permanently sealed. The front half of the sump has a removable split lid for easy access to the piping system. Note: All DPM Sumps are Fiberglass.






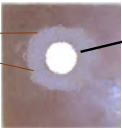








Tools Required

Products Needed

SU-VVR

Specify the number of vent pipes to be installed

<h1>PF-BC-1.1 & PF-BC-1.4 CII</h1>		<h2>Contractor Installation Instructions</h2>	
		<h3>Bonded Conduit Fiberglass Fittings</h3>	
 <p>Diversified Products Manufacturing Inc.</p>		 <p>Weaver Products</p>	
<p>Prepare all Surfaces: All surfaces to be bonded should be prepared prior to completing the installation steps below.</p> <p>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.</p> <p>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.</p> <p>Bonding to Steel and FRP surfaces: Clean and sand (rough up) sump surfaces. Remove all gel coat on all fiberglass surfaces. Apply CH-DBB V to all surfaces to be bonded both the fitting and sump wall.</p>			
<p>Step 1</p> <p>Bonded Kits consist of: a PF-BC-1.1 (3/4") or PF-BC-1.4 (1") Fiberglass injection molded fiberglass fitting. Fitting is suitable for bonding to a fiberglass sump and to steel pipe.</p> <p>Basic Bonded Conduit Fitting </p> <p>Conduit fitting with nipple </p>			
<p>Step 2</p> <p>Prepare the sump: Determine the location where the conduit will penetrate the sump. Mark and drill a 1 3/4" hole in the sump wall. On the outside of the sump, sand around the hole removing all gel coat. Clean the hole with CH-DBC II and let air dry or wipe dry with a clean dry cloth. Separate penetration fittings are manufactured to fit either 3/4" rigid conduits PF-BC-1.1 or 1" rigid conduits PF-BC-1.4.</p> <p>  1 3/4" Dia Hole</p>			
<p>Step 3</p> <p>Prepare the fitting: The fitting may be installed as received without preparation. However, it is better to sand the fitting so that all surfaces to be bonded are roughed up. Clean the hole with CH-DBC II and let air dry or wipe dry with a clean dry cloth. Apply CH-DFB fiberglass bonder to the surfaces to be bonded both the sump wall and the penetration fitting.</p> <p> </p>			
<p>Step 4</p> <p>Install the fitting: Press the fitting into the hole and allow to cure for 12 hours prior to running the conduit through the fitting.</p> <p> fitting installed on conduit</p> <p>inside of Sump</p>			
<p>Step 5</p> <p>Prepare the conduit: Conduits may be run directly through the penetration fitting. If installing a nipple the nipple may be installed within 12 hours. If running a length of pipe through the fitting, that may apply force to the uncured epoxy it is best to wait 24 hours for installation. Dry fit and mark the location on conduit to be bonded. Sand and remove all foreign material and scuff the conduit. Apply CH-DFB bonder to the surface of the conduit to be bonded and install the conduit. Once the conduit is stable and will not be moved again, finish the bonding process by applying CH-DFB to all surfaces that have been bonded. Pack the lead in chamfers on the fiberglass fitting and wipe the epoxy to make a smooth joint.</p> <p></p>			
<p>Step 6</p> <p>Protect the conduit: Any metal conduit leaving the sump should be coated with CH-SB II. This soils barrier paint will prevent the conduits from corroding. In some locations painting the conduits inside the sump will prevent future degradation of the conduit.</p> <p> </p>			
<p>Tools Required</p> <ul style="list-style-type: none"> Sand paper for sump wall and pipe 1 3/4" hole saw CH-DAG III applicator gun for CH-DFB bonder 		<p>Products Needed</p> <ul style="list-style-type: none"> PF-BC-1.1 or PF-BC-1.4 - penetration fitting CH-DBC II Aerosol Cleaner 8 fittings per can CH-DFB 50ml Epoxy Bonder For Single Wall fitting estimate 8 ml 	



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.

Very truly yours,

Brian E Lewis
Brian E Lewis, PE



Roundtable Engineering Solutions, Inc
660 Southpointe CT, Unit 300G
Colorado Springs, CO 80906

NOTICE OF COMPLETION OF THIRD-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 testing requirements 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°F and our tests were conducted at a minimum temperature of -30°F.
2. 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
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NOTICE OF COMPLETION OF THIRD-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

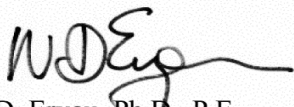
Dear Mr. Dow

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. Eryou, Ph.D., P.E.





Reference Data



Fiberglass Penetration & Sump Epoxy Wizard

	Quantity	Bonder-ml DFB	Cleaner-cans DBC II	Epoxy DEB	Total DFB	Total DBC II	Total DEB	
Factory Mounting								
Penetrations								
PF-FGC (factory ES)		0.15	0.1	0	0	0.0	0	FGC Series Compact Penetrations
PF-FGT (factory ES)		0.23	0.1	0	0	0.0	0	FGT-Series Fiberglass Fittings w/ bonded Adaptor
PF-BC (factory ES)		0.02	0.1	0	0	0.0	0	BC Series conduit Penetrations
Interstice Seals & SMK								
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
Field Mounted								
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								
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								
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
					Totals			
					0	0.0	0.0	
DFB-50 ml cartridges Field	0.0	DBC II Cans of Clear		0.0	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	