| | | | | ١ | | | | | | | | 1 | | | | | | | | | | | | | . by | |
|------------------------|--|-------------------|--------------------|--------------|------------------------------|---|----|--------------------------------|-------------------|------------------|-------------------|-------------------------------|------------------------|------------------------------|--------------|-------------|---|--|---|-----------------|---------------------------------------|-----------------|--------------|------------------------------|---|------------------------------|
| PERMIT | 000026061 | 32202 | | 32056 | | | | 95000.00 | STORIES | | | ш | | | | | actor | New Resident | | 1028 | (footer/Slab) | | date/app. by | 90 | date/app. by | date/app. by |
| County Building Permit | ear From the Date of Issue PHONE 904.693.3200 | JACKSONVILLE | PHONE 800.727.6706 | LAKE CITY FL | PHONE 904.693.3200 | X (OLD GA PACIFIC) ON THE | | ESTIMATED COST OF CONSTRUCTION | EA HEIGHT | ROOF PITCH FLOOR | MAX. HEIGHT | REAR SIDE | DEVELOPMENT PERMIT NO. | Z | TOTAL ACRES | (Minn) Mun | nber Applicant/Owner/Contractor | LU & Zoning checked by Approved for Issuance | ILE. | Check # or Cash | FOR BUILDING & ZONING DEPARTMENT ONLY | Monolithic | date/app. by | Sheathing/Nailing | by date/app. by Rough-in plumbing above slab and below wood floor | Side and color most and side |
| Columbia County | This Permit E. | TALLEYRAND AVENUE | TC | SE CR 245 | K.C PETROLEUM/SCOTT LAMBERSO | FY SR 100 TO C-245 TO BLUE LINX (OLD GA PACIFIC) ON THE | α. | REPLACE FUEL SYSTEM ES | TOTAL AREA | WALLS | INDUSTRIAL | ments: STREET-FRONT | FLOOD ZONE X | NOSI-000 SUBDIVISION | PHASE UNIT _ | PCC1256768 | Culvert Waiver Contractor's License Number P07-0097 | Septic Tank Number LU & Zonii | NOC ON FILE. LETTER OF AUTHORIZATION ON FILE. | | FOR BUILDING & ZONIN | Foundation | date/app. by | ng Slab | date/app. by Rough-in plumbing al | |
| DATE 07/26/2007 | APPLICANT KEVIN MAY | ADDRESS 650 | OWNER ABP FL, LLC | ADDRESS 694 | CONTRACTOR K.C.I | LOCATION OF PROPERTY | | TYPE DEVELOPMENT | HEATED FLOOR AREA | FOUNDATION | LAND USE & ZONING | Minimum Set Back Requirments: | NO. EX.D.U. | PARCEL ID 03-4S-17-07581-000 | LOT BLOCK | | Culvert Permit No. | onnection | COMMENTS: NOC ON F | | | Temporary Power | | Under slab rough-in plumbing | Framing | date/app. by |

Columbia County Building Permit Application

| | | | | | CANDON AND ADDRESS OF THE STATE |
|---|-------------------|--|---|--------------------|--|
| For Office Use Only | Application # | 0707-55 Dat | e Received 7/10 | _ By VW P | ermit # 26060 - 200 |
| Application Approve | d by - Zoning Of | ficial_BLKD | ate 24.07.07 Plans | Examiner (K) | 7H Date 7-20-07 |
| Flood Zone | | | | | Category TNOUSTREAL |
| Comments LENG | C. 2 AUT. Att. | KHED | | | |
| NOC MEH Deed | or PA //Site Pla | an 🕝 | State Road Info | Parent Parcel # | □ Development Permit |
| | ,- | | | | 786-8441 |
| Name Authorized Perso | on Signing Permi | H Kevin MA | y | Phone <u>90</u> | 4-693-3200 |
| Address 650 Tall | | | | | |
| Owners Name <u>ABA</u> | | / | | _ Phone _ 800 | -727-6706 EX 113 |
| 911 Address <u>694</u> 5 | E. CR. 243 | , Lake City, | Fl 32056 | | |
| Contractors Name | 1.C. PetRole | eum, Ivc. | | _ Phone _ 909 | 1-693-3200 |
| Address 650 Tall | Leyrand A | we JAX. FL. | 32202 | | |
| Fee Simple Owner Nar | ne & Address | NIA | | | |
| Bonding Co. Name & / | Address | VIA | | | |
| Architect/Engineer Na | me & Address_ | KC Petroleum In | C JAX, FL 322 | 02 | |
| Mortgage Lenders Nar | | The second secon | | | |
| Circle the correct pow | er company – | FI Power & Light - | Clay Flac - Suma | nnoo Valley El- | c Progressive Energy |
| Property ID Number | 03-45-17-6 | 7581-000 | | | |
| Subdivision Name | | | | | n 95,000 |
| Driving Directions 100 | DE to CR | 245 an South | LOT | BIOCK | Unit Phase |
| Directions | 1 0 | ers go soura | ON CK 245 7 | 0 694 CRZ | 45. |
| 04 | D-GILPA | RIZIC C | TE - (BUH | = (in) | |
| Type of Construction _ | | | | | n Property |
| Total Acreage | _ Lot Size | _ Do you need a - | Culvert Permit or C | Culvert Waiver | or <u>Have an Existing Driv</u> |
| Actual Distance of Structure | cture from Propo | erty Lines - Front | | Side | |
| Total Building Height _ | Nu | mber of Stories | | | |
| | | | | | - |
| Application is hereby minstallation has comme | lade to obtain a | permit to do work a | nd installations as i | ndicated. I certif | y that no work or |
| ail laws regulating cons | truction in this | jurisdiction. | it and that all WOLK | De performed to | meet the standards of |
| OWNERS AFFIDAVIT: I compliance with all app | hereby certify th | nat all the foregoing | information is accu | rate and all wor | k will be done in |
| WARNING TO OWNER: | | | | MENT MANAGEMENT | ···· |
| I MICE FOR IMPROVEM | IENIS IU TUUK | PROPERTY. IF YOU | I INTEND TO ORTAI | N FINANCING | OULT IN YOU PAYING |
| LENDER OR ATTORNE | I DELOKE KECI | URDING TOUR NOT | CE OF COMMENCE | MENT. | |
| | 2 tennito A | CLUSC ATA | A HADON | Trus Mr | |
| Owner Builder or Autho | rized Person by | Notarized Letter | Contractor | | |
| STATE OF FLORIDA | | Motarized Letter | Contractors | License Number | or PCC 1256768 |
| COUNTY OF COLUMBIA | | 4 5000 | $^{\prime}$ $^{\prime}$ $^{\prime}$ NOTARY ST | AMPSEA | Notary Public - State of Florida |
| Sworn to (or affirmed) a | nd subscribed b | | | M. C. C. C. M. | y Commission Expires Aug 7, 2009 Commission # DD 457577 |
| thisday of | July | 20 07. | Drow | | Bonded By National Notary Assn. |
| Personally known | or Produced Ide | 00/2// | Notary Sign | ature | (Revised Sept. 2006) |
| | | . ALT. NICCS | ACE' 7.20 | | , |

| @ CAM112M01 S CamaUSA Appraisal System 7/19/2007 11:53 Legal Description Maintenance Year T Property Sel 2007 R 03-4S-17-07581-000 DOR 2006 ABP FL (LAKE CITY) LLC | Columbia County 293250 Land 001 * AG 000 1331919 Bldg 003 * 39532 Xfea 005 * 1664701 TOTAL B* |
|--|---|
| 1 COMM NE COR OF SEC, RUN W 325.33 FT TO S'LY 3 'GS'& F' RR FOR POB, RUN SE 193' FT ALONG RR, S'89' 5 '891'.04' FT, N'1138'.88' FT, E 611' FT TO POB, EX 0.8' 7 'ORB' 572-402'. ORB' 344-64', 656-2' | 5.52 FT, W 4 5 AC DESC 6 |
| 9 ORB 1015-1914 | 10 |
| 13 15 | 111111111111111111111111111111111111111 |
| 17 19 | 20 |
| 23 | 22 |
| 25 27 Mnt 5/ | 1 T T T T T T T T T T T T T T T T T T T |
| F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24= | |

LIMITED POWER OF ATTORNEY

| I hereby name and appoint | I hereby name and appoint Kevin May of K.C. Petroleur | ě |
|--|--|----------|
| I herehy name and appoint Nevin May of K.C. Petroleum Inc. m lawful attorney in fact to act for me and apply to Columbia County for a permitting + pickup for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) LLC 1300 Wildward Packung, Atlanta Ga 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Sept Lamberson Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this May or July A.D. 2007 Notary Public, State of Notary Public, State Stat | I hereby name and appoint Kevin May of K.C. Petroleur | |
| lawful attorney in fact to act for me and apply to Columbia County for a permitting + pick up for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) IIC 4300 Wild word Parkinsy, Atlanta, 60 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scatt Lambarson Type or Print name of Certified Contractor, License # Signature of Certified Contractor, License # Acknowledged: Sworn to and subscribed before me this 17th day of July Notary Public, State of Notary Public, St | I hereby name and appoint Kevin May of K.C. Petroleur | |
| lawful attorney in fact to act for me and apply to Columbia County for a permitting + pick up for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) IIC 4300 Wild word Parkinsy, Atlanta, 60 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scatt Lambarson Type or Print name of Certified Contractor, License # Signature of Certified Contractor, License # Acknowledged: Sworn to and subscribed before me this 17th day of July Notary Public, State of Notary Public, St | I hereby name and appoint Kevin May of K.C. Petroleur | |
| lawful attorney in fact to act for me and apply to Columbia County for a permitting + pick up for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) IIC, 4300 Wild word Parkussy, Atlanta, 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scatt Lambarson Type or Print name of Certified Contractor, License # Signature of Certified Contractor, License # Acknowledged: Sworn to and subscribed before me this 1716 day of July A.D. 2007 Florida Notery Public, State of Notery Public, State of | of K.C. Petroleur | |
| lawful attorney in fact to act for me and apply to Columbia County for a permitting + pick up for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) IIC 4300 Wild word Parkinsy, Atlanta, 60 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scatt Lambarson Type or Print name of Certified Contractor, License # Signature of Certified Contractor, License # Acknowledged: Sworn to and subscribed before me this 17th day of July Notary Public, State of Notary Public, St | Invited 44 | m Inc. m |
| for a permitting + pickup for work to be performed at a location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) LLC 4300 Wild word Packussy, Atlanta, 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scatt Lamberson Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day on Notary Public, State of Notary Public, State of Notary Public, State of | lawiul attorney in fact to act for me and apply to Columbia County | |
| location described as: Parcel # 03-45-17-07581-000 694 SE CR 245, Lake City FL 32056 (Address of Job) ABP FL (Lake City) LIC, 4300 Wild word Parkway, Atlanta, 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lambarson PCC/256768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July Notary Public, State of Florida | for a permitting + 1 km | _ |
| (Address of Job) ABP FL (Lake City) LLC 4300 Wildward Packuray, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PLC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July 1. A.D. 2007 Notary Public, State of Florida Notary Public, State of 18th of Florida Notary Public, State of 18th of Florida Notary Public, State of 18th of Florida | for work to be performed at a | L |
| (Address of Job) ABP FL (Lake City) LLC 4300 Wild word Packway Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PLC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this Joyce Collison Notary Public, State of Florida Notary Public, State of Notary Public, State of | location described as: Parcel # 03-45-17-07581-000 | |
| ABP FI (Lake City) LIC 4300 Wild word Packway, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PIC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida | | |
| ABP FI (Lake City) LIC 4300 Wild word Packway, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PIC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida | | |
| ABP FI (Lake City) LIC 4300 Wild word Packway, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PIC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida 100 Certified Contractor A.D. 2007 | | |
| ABP FI (Lake City) LIC 4300 Wild word Packway, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PIC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida 100 Certified Contractor A.D. 2007 | | |
| ABP FI (Lake City) LIC 4300 Wild word Packway, Atlanta 64 3033 (Owner of Property and Address) and to sign my name and do all things necessary to this appointment. Scott Lamberson PIC 1256 768 Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of Florida JOYCE COLLISON Notary Public, State of Florida 100 Certified Contractor A.D. 2007 | 699 St CR 245, Lake City, FL 32056 | |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of My Commission Exotes Aug 7, 2009 | (Address of Job) | |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of My Commission Exotes Aug 7, 2009 | | |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of My Commission Exotes Aug 7, 2009 | ABP PL (LAKE City) LLC, 4300 Wildwood Packupa Atlants | 64 2022 |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Notary Public, State of My Commission Exotes Aug 7, 2009 | (Owner of Property and Address) | 2035 |
| Type or Print name of Certified Contractor, License # Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day or July: A.D. 2007 Florida JOYCE COLLISON Notary Public, State of Florida License # A.D. 2007 | | |
| Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Florida My Commission Express Aug 7, 2009 | and the same of th | |
| Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Florida My Commission Express Aug 7, 2009 | Scott Lamberson | • |
| Signature of Certified Contractor Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Florida My Commission Express Aug 7, 2009 | Type or Print name of Certified Contractor License # | |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of My Commission Express Aug 7, 2009 | ALO | |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of My Commission Express Aug 7, 2009 | Scott Sun Us | ¥0. |
| Acknowledged: Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of My Commission Express Aug 7, 2009 | Signature of Certified Contractor | |
| Sworn to and subscribed before me this 17th day of July A.D. 2007 Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of My Commission Express Aug 7, 2009 | | |
| Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of Notary Public, State of Notary Public, State of | | |
| Fiorida JOYCE COLLISON Notary Public, State of Notary Public, State of Notary Public, State of Notary Public, State of | Sworn to and subscribed before me this 17th day of well | 2007 |
| Notary Public - State of Florida My Commission Expires Aug 7, 2009 | Floride Notary Public, State | of |
| II · C AP J · My Commission Expires Aug 7, 2009 | JOYCE COLLISON | 7 |
| | Notice Public - State of Florida | |
| (Sea.1) Commission # DD 457577 Bonded By National Notary Assn. | Notary Public - State of Florida Ny Commission Expires Aug 7, 2009 | |
| | Notary Public - State of Florida My Commission Expires Aug 7, 2009 (Sea1) Notary Public - State of Florida Commission Expires Aug 7, 2009 | |
| My Commission Expires: | Notary Public - State of Florida Ny Commission Expires Aug 7, 2009 | |

7-2007

NOTICE OF COMMENCEMENT FORM COLUMBIA COUNTY, FLORIDA

*** THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.***

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 03-45-17-07581-000

| 1. | Description | n of prope | rty: (legal descript | tion of the pro | operty and s | treet address or 911 | address) | |
|---|--------------|------------------|--|-----------------|--|--------------------------|--|----------------|
| | Comm K | VE COR | of Sec Ran W | 325.33 FT | To ' 5'LY | Now Line 65 + F | RR FOR POB ROW | <u>5E</u> |
| | 193 FT A | Vong RR | 5 895.52 FT. | W 891,041 | T, N 1138 | 88 FT. E GII FT | TO POB. EX 0.85 | AC |
| | Desc Q | RB 573 | - 402, ORB 34 | 4-64,656 | -272 -73 | ORB 1015-1914 | <u> </u> | |
| | Addres | 5-69 | 4 SE. CR. 20 | 45, Lake | City F | 1. 32056 | | |
| | | | | | - | | e sturage town | |
| 3. Owner Name & Address ABP FL (Lake City) LLC. 4300 Wildwood Parkway, Atla | | | | | | | <u>inv</u> ta, | |
| | | | | | | in Property Oww. | eR | |
| 4. | Name & Ad | dress of F | ee Simple Owner | (if other than | owner): | N/A | | |
| 5. | Contractor | Name/ | K.C. Petroleu. | M. INC | | Phone Number | 904-693-3200 | 2 |
| | | | | Ave. Ja | x, Ff. 3 | 2202 | WHITE INCULT COMPANIES | |
| 6. | Surety Hold | | NIA | STATE OF FLO | ORIDA, COUNT | Phone Number _ | A 10 19 | - |
| | Address _ | | | I MERERY LENI | IFY, that the above f the original filed | D BITE (ALABORINA | | |
| | Amount of | Bond | | P. DOWITT CASE | ON, CLERK OF CO | URTS | | |
| 7. | Lender Nan | ne <u>/</u> | 114 | a Ahor | Deputy Clerk | Phone Number | The state of the s | 5 |
| | Address | | | Data D | - 10-4 | 200 | THE COUNTY OF | F |
| sei | rved as prov | ided by si | ection 718.13 (1)(a) | 7; Florida Si | catutes: | | other documents may | |
| | Name _ Ka | evin C | PRIER | | | Phone Number | 904-693-320 | 0 |
| | Address | 650 7 | Alleyend | Ave. 3 | TAX, FL | 32202 | | |
| 9. | In addition | to himse | lf/herself the owne | r designates | | | | 01 |
| | | | to | receive a cop | y of the Lle | nor's Notice as prov | ided in Section 713.13 | i (1) – |
| | (a) 7. Pho | ne Numbe | r of the designee | | | | | |
| 10 | . Expiration | date of th | e Notice of Comm | encement (th | ne expiration | n date is 1 (one) year | from the date of recor | ding, |
| | (Unless a d | different d | ate is specified) _ | | | | | |
| | | | | | | st:200712016155 Date:7/1 | 9/2007 Time:11:24 AM Columbia County Page 1 | of 1 |
| NO | TICE AS PE | R CHAPT | ER 713, Florida Sta | atutes: | , | | | |
| Th | e owner mus | st sign the | notice of commer | ncement and | no one else | | sign in his/her stead. | |
| | | | | | | Sworn to (or affirm | ed) and subscribed be | fore MSI |
| | | 110 | | | | day of July | , 20_0 | <u> </u> |
| | Thurke | VB. | Seller | • | 4 | NOTARY STAMP/SI | EAL. | |
| | Signature | of Owner | · | | | / 1 | O. MAG | $\sim M$ |
| | * | STATE A STATE OF | ANGELA SWANSO Notary Public, State of F | lorida | 11 | 1 Melo | BANTA | >U C |
| Ē | | | My comm. expires Oct. 20 No. DD 485980 | 6, 2009 | | Signature of Notar | ¥ | 11: |
| | | | 1 | | | 4.0 | - | |



2006-2007 OCCUPATION LICENSE TAX

CITY OF JACKSONVILLE/DUVAL COUNTY

251 STORS THE TREE POINTS OF CHEON PLE, FL 32202-3370 REPORT TREE 325-2050 AX 1904 630-1882

Note – A penalty is imposed for failure to keep this license exhibited conspictionsly at your establishment of place of business. This license is furnished pursuance of chapter 770-772 City ordinance codes.

LAMBERSON, SCOTT M LAMBERSON, SCOTT M 533 N 001774 AV JACKSONVILLE, FL 32250-4815

ACCOUNT NUMBER: LOCATION ADDRESS:

RAND AV VILLE FL 32002-0000

DESCRIPTION:

CLASSIAN ACCESS CONTRACTORS

COUNTY LICENSE DESC: MUNICIPAL LICENSE DESC:

ALLI RS

COUNTY TAX: MUNICIPAL TAX:

0.00

TOTAL TAX PAID:

100.00

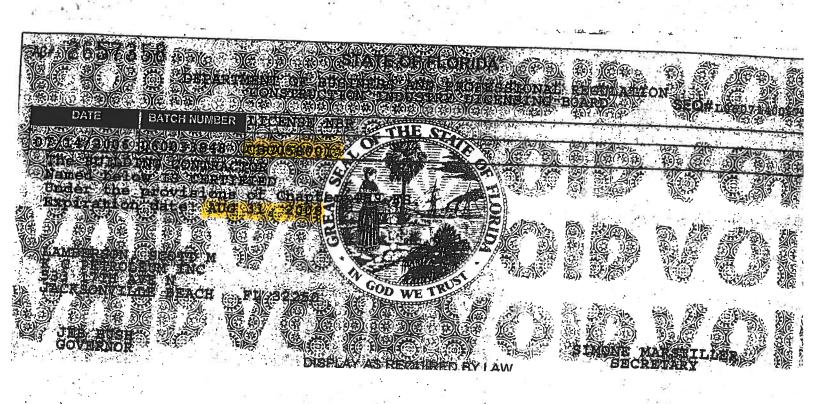
VALID FROM August 1, 2006 TO September 30, 2007

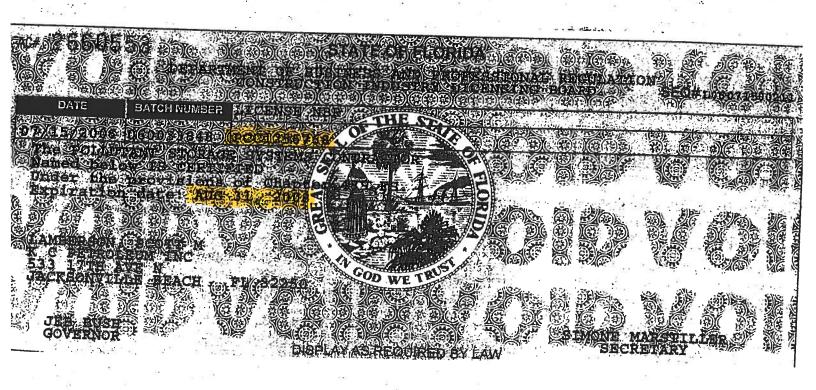
ATTENTION

THIS LICENSE IS FOR OCCUPATION LICENSE TAX ONLY.
CERTAIN OCCUPATIONS MAY REQUIRE ADDITIONAL STATE LICENSING.

This is an occupation license tax only. It does not permit the licensee to violate any existing regulatory or zoning laws of the County or City. Nor does it exempt the licensee from any other license or permit required by law. This is not a

Mike Logan





| | | CORD CERTIFIC | | | | | DATE (MM/DD/YYYY) 05/03/2007 | | |
|---|-------------------------------|--|---|---|---|---|---------------------------------------|--|--|
| Co P | ecil .0. | W. Powell & Co. Drawer 41490 | AX (904)353-5722 | HOLDER. | D CONFERS NO THIS CERTIFICA | UED AS A MATTER OF RIGHTS UPON THE CE ATE DOES NOT AMEND AFFORDED BY THE POI | INFORMATION RTIFICATE EXTEND OR | | |
| 1 | | Newnan St. sonville, FL 32203-1490 | | INSURERS | AFFORDING CO | VERAGE | NAIC # | | |
| INS | URED | KC Petroleum Inc | | INSURER A: A | M SAFETY RIS | K RETENTION GRP | | | |
| | | P 0 Box 60742 | | | uto Owners I | | | | |
| | | Jacksonville, FL 32236 | | | | ty Indemnity Co | | | |
| | | | | INSURER D: F(| CCI Insuranc | e Company | 10178 | | |
| cc | VFR | AGES | | INSURER E. | | | | | |
| A N F | HE P NY R MAY P OLIC | OLICIES OF INSURANCE LISTED BEL EQUIREMENT, TERM OR CONDITION ERTAIN, THE INSURANCE AFFORDEI IES. AGGREGATE LIMITS SHOWN MA | I OF ANY CONTRACT OR OTHER [D BY THE POLICIES DESCRIBED I | DOCUMENT WITH I | ロヒぐロにんよ エン パイロバ | OH THIS CERTISIONTS MAN | DE ICCUED OD | | |
| NSF LTR | ADD' | | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMIT | s | | |
| | | GENERAL LIABILITY | ENV010668-06-02 | 09/11/2006 | 09/11/2007 | EACH OCCURRENCE | \$ 1,000,000 | | |
| | | X COMMERCIAL GENERAL LIABILITY | | | | DAMAGE TO RENTED PREMISES (Fa occurence) | \$ 50,000 | | |
| Α | ' | CLAIMS MADE X OCCUR | | | | MED EXP (Any one person) | \$ 5,000 | | |
| ^ | l | | | | | PERSONAL & ADV INJURY | \$ 1,000,000 | | |
| | | GEN'L AGGREGATE LIMIT APPLIES PER: | | | ŕ | GENERAL AGGREGATE PRODUCTS - COMP/OP AGG | \$ 2,000,000 \$ 2,000,000 | | |
| | | X POLICY PRO- | | | | THOUGHTS - COMPTOR AGG | \$ 2,000,000 | | |
| | | AUTOMOBILE LIABILITY X ANY AUTO | 4203213900 | 09/11/2006 | 09/11/2007 | COMBINED SINGLE LIMIT (Ea accident) | \$ 1,000,000 | | |
| В | | ALL OWNED AUTOS SCHEDULED AUTOS | | | | BODILY INJURY (Per person) | \$ | | |
| | | HIRED AUTOS NON-OWNED AUTOS | | | | BODILY INJURY (Per accident) | \$ | | |
| | I ├— | | 9 | | | PROPERTY DAMAGE (Per accident) | \$ | | |
| | | GARAGE LIABILITY ANY AUTO | 9 | | | | \$ | | |
| | | | | | | ALITO ONI V. | \$ \$ | | |
| | | X OCCUR CLAIMS MADE | ENU009058-06-03 | 09/11/2006 | 09/11/2007 | EACH OCCURRENCE | \$ 2,000,000 | | |
| C. | | | | , | | | \$ 2,000,000 \$ | | |
| | | X RETENTION \$ 10,000 | | | | | \$ | | |
| _ | WOR | X RETENTION \$ 10,000 KERS COMPENSATION AND | 001WC07A42788 | 05/06/2007 | 05 /06 /2008 | | \$ | | |
| | EMPI | LOYERS' LIABILITY | 001WC07A42788 | 03/00/2007 | 05/06/2008 | " TORY LIMITS FR | 1 000 000 | | |
| D | OFF | PROPRIETOR/PARTNER/EXECUTIVE CER/MEMBER EXCLUDED? | | | | | \$ 1,000,000 \$ 1,000,000 | | |
| | If yes | , describe under CIAL PROVISIONS below | | | | E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT | | | |
| OTHER CONTRACTOR'S ENV010668-06-02 09 Pollution-Written | | | 09/11/2006 | 09/11/2007 | Limits of Liabil | ity included | | | |
| | | ims Made Basis | | | | General Aggregate | e Shown Above | | |
| | MIT IN | ON OF OPERATIONS / LOCATIONS / VEHICLE | 5 / EXCLUSIONS ADDED BY ENDORSEMI | ENT / SPECIAL PROVIS | SIONS | | | | |
| EF | RTIFI | CATE HOLDER | | CANCELLAT | ION | | | | |
| Columbia County Building & Zoning Attention: Janice Williams P O Drawer 1529 | | | | EXPIRATION D 10 DAYS BUT FAILURE OF ANY KIND I | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. | | | | |
| | _ | ake City, FL 32056-1529 | | Susan Jord | | Suan Jordan | | | |
| _ | | | | I Jusan Jorg | Q(/) | () | | | |



K.C. Petroleum, Inc.

P.O. Box 60742 Jacksonville, FL 32236 (904) 693-3200 (904) 786-8441



Quantity Unit





CBC-058001 PCC-1256768

Date: 06/08/07

Manufacturer

Mike Sellers BlueLinx Corporation 694 SE CR 245 Lake City, FL 32056

Job #: 497220 BlueLinx Tank Remediation 694 SE CR 245 Lake City, FL 32056

JUN 0 1/ 2007

FAXED

K.C Petroleum is pleased to provide the following proposal on the above referenced project:

COMBINED MATERIALS & EQUIPMENT

Description

| | manuracturer | Description | | Quantity | Offic |
|-----|----------------|--|---|----------|-------|
| | | Pemco 18" Round Manhole | | 3.00 | EA |
| | | Pemco 2" Vent Cap | | 1.00 | EΑ |
| | | PetroFiberglass DPF 42 WT-10CMR - Tank Sump | | 1.00 | EA |
| | FO 296 | PetroFiberglass DPF- 7 STD - Dispenser Sump | | 1.00 | EΑ |
| | ~~~ | PetroFiberglass DPF SB - Stabilizer Bar | | 1.00 | EA |
| | EQZO | Xerxes 10,000 Gal. DW Fiberglass Tank w/ Collar, Brine | 9 | 1.00 | EA |
| | | 2" Ball Valve | | 1.00 | EA |
| | | Freight | | 1.00 | LS |
| | FIBERGLASS P | PIPING & FITTINGS | | | |
| | AO SMITH | 3" RED THREAD IIA PIPE | | 50.00 | FT |
| | AO SMITH | 2" RED THREAD IIA PIPE | | 75.00 | FT |
| | AO SMITH | 2" RED THREAD IIA FITTINGS (90 ELBOW) | | 6.00 | EA |
| 1 | AO SMITH | 2" RED THREAD IIA FITTINGS-(45 ELBOW) | | 3.00 | EA |
| 250 | AO SMITH | 2" RED THREAD IIA FITTINGS (SLEEVE) | | 2.00 | EA |
| D . | AO SMITH | 2" BxM Threaded Adapters | | 3.00 | EA. |
| 098 | AO SMITH | 2x1.5 Female NPT Reducer Bushing | | 1.00 | EA. |
| | AO SMITH | 3" 90 Elbow Secondary Cont. Fittings | | 2.00 | ∈EΑ. |
| | AO SMITH | 3" 45 Elbow Secondary Cont. Fittings | | 2.00 | EA. |
| | AO SMITH | 3" Sleeve Coupling Secondary Cont. Fittings | | 1.00 | EA. |
| | AO SMITH | DS-8000 Series Adhesive | | 10.00 | EA |
| | FLEXIBLE PIPIN | NG & FITTINGS | | | |
| | OPW | PBF2-300AXPF - 3" Entry | | 2.00 | EA. |
| 14 | OPW Pisces | PTB2-320FA - 3" to 2" Reducer Boot | | 2.00 | -ΕA. |
| VQ" | OPW Pisces | PCEF2-751 - Electrical Entry | | 4.00 | EA. |
| | OPW Pisces | SL-1100 - Sealant | | 12.00 | EA |
| | STP'S AND LEA | K DETECTORS | | (35) | |
| | FE PETRO | STP75 VL2 - 3/4 HP Sub-Pump | | 1.00 | EA |



Wayne

FILE COPY

lob #: 497220 BlueLinx Tank Remediation

Proposal, Page #:

Date: 06/08/07

| | | and the second s | Equipme | ent Sub-T |
|-----------------|--------------------------------------|--|--------------|-----------|
| | Dresser Wayne | Reliance G6201D Single Product Dispenser w/ Pulse Outpu | 1.00 | EA |
| - | Veeder Root | 794380-303 - Hydrostatic Interstitial Sensor | 1.00 | EA |
| EQ 614 | Veeder Root | 794380-208 - Piping Sump Sensor | 1.00 | EA |
| | Veeder Root | 330020-436 - Interstitial Riser Cap and Ring Kit | 1.00 | EA |
| | Veeder Root | 312020-952 - Probe Riser Cap & Ring Kit | 1.00 | |
| | Needer Root | 329358-001 - 8-Input Interstitial/Sensor Interface Mod | 1.00 | EA |
| | DISPENSING EC | QUIPMENT & CONSOLE | | |
| | OVERFILL PRO | FECTION 5104432LC - Vent Etractor Assembly | 1.00 | EA |
| | MANHOLES & C | OVERS 781-443-18 - 42" Composite Manhole (Bolt Down) | 1.00 | EA |
| | | | 1.00 | EA. |
| | FLEXING FLEXING | 1.5" X 18" FLEXHOSE 2"x15" Flexhose | 1.00 | EA |
| | OPW | TORS & SHEAR VALVES 10BF-5725 - 1.5 Shear Valve | 1.00 | ĒΑ |
| EQ 414 EQ651 | SERVICE STATI EMCO WHEATON OPW | ON PRODUCTS A1100-055P - Overfill Drop Tube w/ Adaptor & Cap 7111SS-CSDW - Stainless Double-wall Spill Bucket | 1.00 1.00 | EA EA |
| EQ 360 | FE PETRO VAPORLESS | STP-DHI-SCI - Isolation Relay w/ Controller LD-2000 - Leak Detector | 1.00 1.00 | EA EA |

SCOPE OF WORK

Provide uncertified drawings by K.C. Petroleum, Inc. for permitting.

Obtain permitting with local authorities.

Blow back product line to tank.

Remove existing tank concrete areas and haul off. (1,602 sq. ft.)

Remove (1) existing 10,000 gallon fiberglass clad steel underground storage tank, degas and dispose of, providing the environmental screening and closure report. (Liquids and sludges to be billed separate per "Exhibit B")

Furnish and install (1) 10,000 gallon double-wall fiberglass underground storage tank including dead-men anchoring system. (See "Notes" for NEPDES permit requirements)

Backfill the new tank installation with clean sand fill material as per manufacture including compaction and soil testing.

Ballast new UST with water utilizing available fire hydrant.

Furnish and install all tank top containment sump, risers, vent extractors, double-wall fiberglass product piping from the tank to the new dispenser sump with accessories installed in the existing island form, single-wall fiberglass vent piping from the tank terminating at building tieing to the existing steel vent riser and surface grade manholes.

Furnish and install new sub-pump with leak detector, (1) Wayne G6201D (Up to 22 gpm) mechanical dispenser with hanging hardware and tank inventory probe and sensors using the existing Veeder Root console.

Furnish, place and finish concrete over tank and piping trenches (1,602 sq. ft) using 4,000 psi fiber-mesh reinforced concrete mix..

Provide electrical services for the tank, dispenser and owner supplied fuel management system from the building.

Perform petroleum line testing, start-up, purge and calibration on system.

Job #: 497220 BlueLinx Tank Remediation Proposal, Page #: 3

Date: 06/08/07

Clean-up and haul off all uncontaminated construction debris do to this scope of work.

| Pro | posa | I Re | cap: |
|-----|------|------|------|
|-----|------|------|------|

Equipment Sub-Total: Installation Sub-Total:

PROJECT TOTAL:

All applicable sales tax is paid by K.C. Petroleum, Inc. and included in the proposal total above.

Payment is due upon completion of the work and should be made to the address shown above. Past due or unpaid balances shall accrue interest at the rate of 1.5% per month. Purchaser further agrees to pay K. C. Petroleum, Inc. reasonable attorneys fees and cost if this account is placed in the hands of an attorney or outside agency for collection.

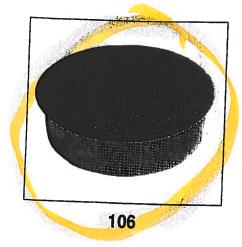
NOTES

1.) Exhibits A&B attached and made apart of this proposal. 2.) Environmental screening, closure report included in proposal. 3.) Dewatering if required for tank installation, ADD \$7,500.00 NEPDES permits for de-watering discharge will be required as an extra to this proposal, ADD \$2,400.00) 4.) Air sparging equipment if required for de-watering discharge do to environmental issues; ADD \$1,550.00 per day to this proposal. 5.) Liquids and sludges from the existing underground storage tanks to be billed separate per "Exhibit B" with manifest attached for proof of volume. 6.) Concrete replacement over the estimated proposal quantities; ADD \$7.75 per sq. ft. 7.) Alternate: (1) Furnish and install a high hose retriever at the dispenser; ADD \$750.00. (2) Provide pea gravel backfill around the underground tank in-lieu of sand backfill; ADD \$6,500.00. 8.) PAYMENT TERMS: Net 10 days with approved credit application or file.

| | 6/8/07 | | |
|------------------------|--------|-----------------------------|------|
| Authorized Signature | Date | Acceptance Signature: | Date |
| C Petroleum, Inc. | | • | |
| lacksonville, FL 32236 | | Company Name/Billing Addres | s |

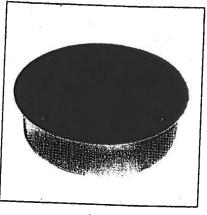
Ремсо

MULTI-PURPOSE MANHOLES



Heavy Duty Round Manhole

The Heavy Duty Round Manhole features a 1½" wide steel ring frame, 3/8" diamond plate steel cover with rust resistant coating (covers 30" and larger include a 4" wide reinforcing channel welded to the underside of the cover), 14 gauge galvanized steel skirt and carries the H-20 load rating. The 16" to 24" models have covers with finger grip hole (excluding rain tight models). The 30", 36" and 38" model covers include an easy grip recessed handle and the 42" and larger model covers are provided with two easy grip recessed handles. The Model 106LA and Model 107 are limited access manholes, which include four 3/8" flush mount stainless steel bolts. The Model 107 is also a rain tight manhole, which includes a Buna-N gasket. Optional PEMCO Model 106L liners are also available for all models of the heavy duty round manhole.



| 4 | $\Delta =$ | |
|---|------------|--|
| 7 | I | |
| 1 | v | |

| MENDETS WAS | | | | |
|-----------------|-----------|-----|--|-------|
| 10616X10 | 16" x 10" | 10" | 171/4" | |
| 10618X10 | 18" x 10" | 10" | 191/4" | 41.0 |
| 10620X10 | 20" x 10" | 10" | 211/4" | 49.0 |
| - 10624X10 | 24" x 10" | 10" | | 57.0 |
| 10630X10 | 30" x 10" | 10" | 25 ¹ / ₄ " 31 ¹ / ₄ " | 79.0 |
| 10636X10 | 36" x 10" | 10" | 371/4" | 118.0 |
| 10638X10 | 38" x 10" | 10" | 391/4" | 170.0 |
| 10642X10 | 42" x 10" | 10° | 431/4" | 190.0 |
| 10648X10 | 48" x 10" | 10" | 491/4" | 250.0 |
| 10652X10 | 52" x 10" | 10° | 53 ¹ /4" | 315.0 |
| 10616X10LA | 16" x 10" | 10" | | 390.0 |
| 10618X10LA | 18" x 10" | 10" | 171/4" | 41.0 |
| 10620X10LA | 20" x 10" | 10" | 191/4" | 49.0 |
| 10624X10LA | 24" x 10" | 10" | 211/4" | 57.0 |
| 10630X10LA | 30" x 10" | 10" | 251/4" | 79.0 |
| 10636X10LA | 36" x 10" | 10" | 311/4" | 118.0 |
| 10638X10LA | 38" x 10" | 10° | 371/4" | 170.0 |
| 10642X10LA | 42" x 10" | 10" | 391/4" | 190.0 |
| 10648X10LA | 48" x 10" | 10° | 431/4" | 250.0 |
| 10652X10LA | 52" x 10" | 10" | 491/4" | 315.0 |
| 10716X10 | 16" x 10" | 10" | 53 ¹ / ₄ " 17 ¹ / ₄ " | 390.0 |
| 10718X10 | 18" x 10" | 10" | 191/4" | 41.0 |
| 10720X10 | 20" x 10" | 10" | 211/4" | 49.0 |
| 10724X10 | 24" x 10" | 10" | 251/4" | 57.0 |
| 10730X10 | 30" x 10" | 10" | 311/4" | 79.0 |
| 10736X10 | 36" x 10" | 10" | 371/4" | 118.0 |
| 10738X10 | 38" x 10" | 10" | 391/4" | 170.0 |
| 10742X10 | 42" x 10" | 10" | 1 | 190.0 |
| 10748X10 | 48" x 10" | 10" | 431/4" | 250.0 |
| 10752X10 | 52" x 10" | 10" | 491/4" | 315.0 |
| 106L 16" TO 24" | '' | | 531/4" | 390.0 |
| 106L 30" TO 42" | | _ | | • |
| 106L 48" TO 52" | | | - | |
| | | | | • |
| | | | | · |



Upflow Vent

The Upflow Vent allows vapors to vent upwards in accordance with NFPA Code 30. The vent is also available with a 1/2" opening restrictor on the bottom (Model 25R), typically used in vapor recovery applications. The upflow vent features a cast aluminum body, flame-retardant 40 mesh brass screen and includes set screws for easy slip on installation onto a 2" or 3" vent pipe.

| 2520 | 2" | 4 ¹ / ₄ ⁿ 4 ¹ / ₄ ⁿ 5 ¹ / ₂ ⁿ | 4 ³ / ₈ " | 1.0 |
|-------|----|--|---------------------------------|-----|
| 25R20 | 2" | | 4 ³ / ₈ " | 1,0 |
| 2530 | 3" | | 6 ³ / ₈ " | 3.0 |
| 25R30 | 3" | | 6 ³ / ₈ " | 3.0 |



Pressure Vacuum Vent

The Pressure Vacuum Vent is used in vapor recovery applications to allow vapors to vent upwards in accordance with NFPA Code 30. The vent has a pressure setting of 8 oz. and a vacuum setting that does not exceed 1/2 oz. per square inch, to assure the appropriate pressure in the storage tank during filling and dispensing. The pressure vacuum vent features a cast aluminum body, flame-retardant 40 mesh brass screen and female threads for easy installation onto a 2" vent pipe. The vent is also available for slip on installation, with set screws and gasket included (Model 26S).

| 26 26S | 2" | 53/4" | 4 ³ /8" | 2.0 |
|-----------|----|-------|--------------------|-----|
| 200 | 2" | 53/4" | 43/8" | 2.0 |

26



NEW.

HISTORY

PRODUCTS

SERVICES

CONTACT US

PRODUCTS

PRODUCTS

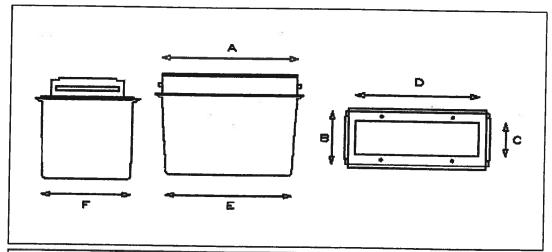
DISPENSER SUMPS

WATER TIGHT TANK SUMPS

WATER TIGHT TANK SUMPS WITH INSPECTION PORT

DISPENSER SUMPS

Petro Fiberglass Dispenser Sumps are installed beneath fuel dispensers to provide containment of plumbing, shear valves, and underground connections. Our Sumps feature a contractor-friendly, containment chamber for access to the piping connections during installation. You can depend on these durable sumps for all of your containment needs and especially suited for high water table applications. Petro Fiberglass Sumps are built by hand and this is the personal touch that makes the difference to you the Customer and Installer.



| Model No. | A | В | C | D | E | F | G |
|------------|---------|---------|---------|---------|---------|---------|----------|
| DPF 1A STD | 39" | 21 1/2" | 15 1/4" | 39" | 37" | 19 1/4" | + |
| DPF 1B STD | 39" | 21 1/2" | 15 1/4" | 39" | 37" | 19 1/4" | 1-1 |
| DPF 1C STD | 41 1/2" | 20 1/4" | 15 1/4" | 41 1/2" | 40" | 18 3/4" | +- |
| DPF 1D STD | 41" | 20 1/4" | 10 1/4" | 41" | 40" | 18 3/4" | + |
| DPF 1E STD | 36" | 21 1/2" | 17" | 36" | 37" | 26" | + |
| DPF 1F STD | 41" | 19 1/4" | 14 1/2" | 41" | 38 1/2" | 18 1/2" | + |
| DPF 1C W | 41 1/2" | 20 1/2" | 15 1/4" | 41 1/2" | 41 1/2" | 26" | +-1 |
| DPF 1D W | 41 1/2" | 20 1/4" | 10 1/4" | 41" | | | \Box |
| DPF 2A STD | 40 1/2" | 16" | 10 1/4" | 40 1/2" | 37 1/2" | 14 1/2" | +1 |
| DPF 2B STD | 40 1/2" | 16" | 9 1/4" | 40 1/2" | 37 1/2" | 14 1/2" | + |
| DPF 2C STD | 40 1/2" | 16" | 10" | 35 3/4" | 37 1/2" | 14 1/2" | +-1 |
| DPF 2A W | 40 1/2" | 16" | 10 1/4" | 40 1/2" | 40" | 24" | \vdash |
| DPF 2B W | 40 1/2" | 16" | 9 1/4" | 40 1/2" | 40" | 24" | Ħ |
| DPF 2C W | 40 1/2" | 16" | 10 1/4" | 36" | 40" | 24" | \vdash |

| DPF 4A STD | 29 1/2" | 21 1/2" | 15 1/4" | 29 1/2" | 27" | 19" | 1 |
|------------|---------|---------|---------|---------|---------|---------|----|
| DPF 4B STD | 24" | 21 1/2" | 16 3/4" | 24" | 23" | 19" | 十 |
| DPF 5B W | 27" | 16" | 11" | 23 3/4" | 28 1/2" | 23 1/2" | +- |
| DPF 5A W | 27" | 16" | 7 1/2" | 24" | 28 1/2" | 23 1/2" | ┿ |
| DPF 5C W | 27" | 16" | 7 1/2" | 23 3/4" | 28 1/2" | 23 1/2" | ┿ |
| DPF 7 STD | 21" | 15" | 11" | 21" | 18 1/4" | 15" | 十 |
| DPF 7W | 21" | 15" | 11" | 21" | 24" | 24" | 十 |
| DPF 1A C | 39" | 21 1/2" | 15 1/4" | 39" | 34" | 25" | + |
| DPF 1A W | 39" | 21 1/2" | 15 1/4" | 39" | 41 1/2" | 25 3/4" | +- |
| DPF 1E C | 36" | 21 1/2" | 16 3/4" | 36" | 29 1/4" | 24 1/2" | +- |
| DPF 1F C | 41" | 19 1/4" | 14 1/4" | 41" | 34" | 25" | ╁╴ |
| DPF 5B W | 27" | 16" | 11" | 23 3/4" | 28 1/2" | 23 1/2" | +- |
| DPF 7 TS | 24 3/4" | 19" | 15" | 21" | 24" | 24" | 十 |

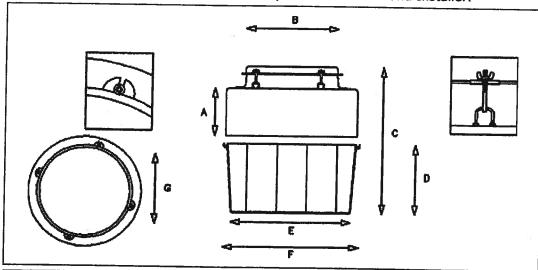
Product List (Excel)

Product List (Acrobat)

Back To Top

WATER TIGHT TANK SUMPS

Petro Fiberglass Tank Sumps are installed below grade on top of UST's to provide access to underground equipment such as submersible pumps, and various piping connections. Tank sumps extend from the top of the tank to just below a manhole cover at grade level, and provide a clean, dry working area to facilitate maintenance on UST equipment. Inside of sumps are gel coated to provide high visibility during installation and maintenance. Our Fiberglass Sumps are expecially well suited for the rigors of high water table installations. Petro Fiberglass Sumps are built by hand and this is the personal touch that makes the difference to you the Customer and Installer.



| Model No. | Α | В | C | D | E | F | G |
|---------------------|-----|---------|-----|-----|---------|---------|-----|
| DPF 42 WT-10 | 22" | 29 1/4" | 40" | 10" | 37 1/2" | 43" | 35" |
| DPF 42 WT-16 | 22" | 29 1/4" | 46" | 16" | 37 1/2" | 43" | 35" |
| DPF 42 WT Lid & Cap | 22" | 29 1/4" | N/A | N/A | N/A | N/A | 35" |
| DPF 42 WT w/6' Ext. | 39" | 29 1/4" | 72" | 16" | 37 1/2" | 43" | 35" |
| DPF 48 WT-16 | 22" | 29 1/4" | 48" | 16" | 42" | 51 1/4" | 35" |
| DPF 48 WT Lid & Cap | 22" | 29 1/4" | N/A | N/A | N/A | N/A | 35" |
| DPF 48 WT w/6' Ext. | 39" | 29 1/4" | 72" | 16" | 42" | 51 1/4" | 35" |
| DPF 42 WT-16 CMR | 22" | 29 1/4" | 46" | 16" | 37 1/2" | 43" | 35" |

Product List (Excel)

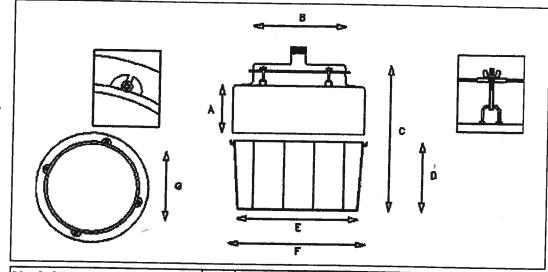
Product List (Acrobat)

Back To Top

WATER TIGHT TANK SUMPS WITH INSPECTION PORT

Petro Fiberglass Tank Sumps are installed below grade on top of UST's to provide access to underground equipment such as submersible pumps, and various piping connections. Tank sumps extend from the top of the tank to just below a manhole cover at grade level, and provide a clean, dry working area to facilitate maintenance on UST

equipment. Inside of sumps are gel coated to provide high visibility during installation and maintenance. Our Fiberglass Sumps are expecially well suited for the rigors of high water table installations. Petro Fiberglass Sumps are built by hand and this is the personal touch that makes the difference to you the Customer and Installer.



| Α | В | С | D | E | F | G |
|-----|--|--|---|---|---|--|
| 22" | 29 1/4" | 40" | 10" | | 43" | 35" |
| 22" | 29 1/4" | | _ | | | 35" |
| 22" | 29 1/4" | N/A | _ | | | 35" |
| 39" | 29 1/4" | 72" | - | + | | 35" |
| 22" | 29 1/4" | 48" | 16" | | | 35" |
| 22" | 29 1/4" | N/A | N/A | | | 35" |
| 39" | | | | | | 35" |
| | 22" 22" 22" 39" 22" 22" | 22" 29 1/4" 22" 29 1/4" 22" 29 1/4" 39" 29 1/4" 22" 29 1/4" 22" 29 1/4" | 22" 29 1/4" 40" 22" 29 1/4" 46" 22" 29 1/4" N/A 39" 29 1/4" 72" 22" 29 1/4" 48" 22" 29 1/4" N/A | 22" 29 1/4" 40" 10" 22" 29 1/4" 46" 16" 22" 29 1/4" N/A N/A 39" 29 1/4" 72" 16" 22" 29 1/4" 48" 16" 22" 29 1/4" N/A N/A | 22" 29 1/4" 40" 10" 37 1/2" 22" 29 1/4" 46" 16" 37 1/2" 22" 29 1/4" N/A N/A N/A 39" 29 1/4" 72" 16" 37 1/2" 22" 29 1/4" 48" 16" 42" 22" 29 1/4" N/A N/A N/A | 22" 29 1/4" 40" 10" 37 1/2" 43" 22" 29 1/4" 46" 16" 37 1/2" 43" 22" 29 1/4" N/A N/A N/A N/A N/A 39" 29 1/4" 72" 16" 37 1/2" 43" 22" 29 1/4" 48" 16" 42" 51 1/4" 22" 29 1/4" N/A N/A N/A N/A N/A |

Product List (Excel)

Product List (Acrobat)

Back To Top

For additional information on our products, please contact Derek Surratte at 704.394.0922 or dsurratte@petrofiberglass.com.

Copyright © 2005 Petro Fiberglass Sumps, Inc./PPMCS. All Rights Reserved Contents of this Website are protected under the copyright laws of the United States.



PRODUCT & INSTALLATION DATA

Fiberglass Tank & Dispenser Sumps

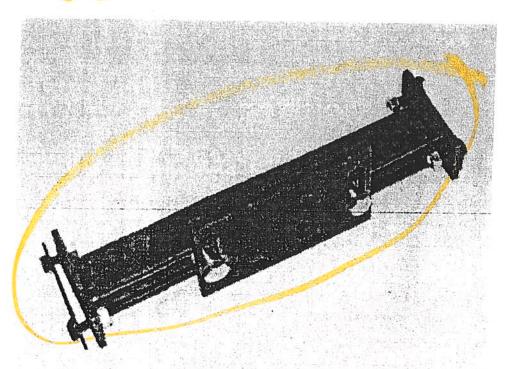
Petro Fiberglass Sumps offers fiberglass reinforced dispenser sumps and tank sumps which are designed to provide secondary containment for underground fuel systems. The sumps are manufactured for compatibility with piping systems. Both dispenser sumps and tank sumps are constructed of Isophthalic Polyester resin and 100% fiberglass reinforcement. These materials provide excellent chemical resistance to oxygenated fuels, alcohol blended fuels, and petroleum products. Stiffer than polyethylene, these stronger materials also resist soil and hydraulic forces in the buried environment resulting in fewer ecological clean-ups.

DISPENSER SUMPS

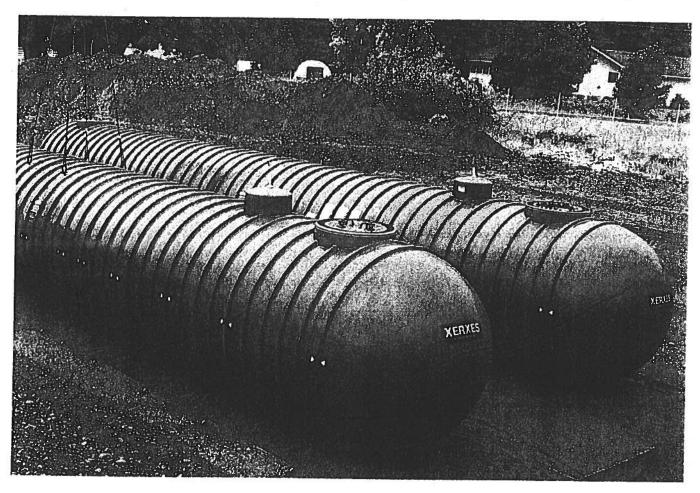
Dispenser sumps are available in a wide range of sizes to accommodate single, dual, and multi-product dispensers (MPD's).

- Dispenser sumps protect primary piping connections and the environment.
- Stabilizer bar kits with mounting plates are ordered with all Petro Fiberglass dispenser sumps.
- Both fiberglass and flexible entry fittings are available, from third party suppliers, for pipe entries.
- Mounting frame is independently tested for corrosion and impact.

STABILIZER BAR KIT



Xerxes Double-Wall Fiberglass, Underground Storage Tanks



Xerxes fiberglass tanks - for today and tomorrow

Xerxes is headquartered in Minneapolis, Minnesota, and operates four manufacturing facilities strategically located to provide prompt delivery and quality service, both economically and efficiently, to your location. Xerxes' commitment to quality and innovation is the foundation of the strong, long-lasting relationships we have with our customers. Xerxes engineers were the first to utilize integrally constructed ribs in fiberglass tanks for added strength. Xerxes was also the first to manufacture a UL-listed, double-wall fiberglass underground storage tank (UST) and to ship a double-wall UST with an interstice filled at the factory with monitoring fluid.

Unlike less durable goods, Xerxes tanks must perform to standards for decades. We believe in going the extra mile for our customers. It is our commitment to customer satisfaction and quality products that makes Xerxes the first choice in underground storage – for today and tomorrow.

The Xerxes Mission Statement

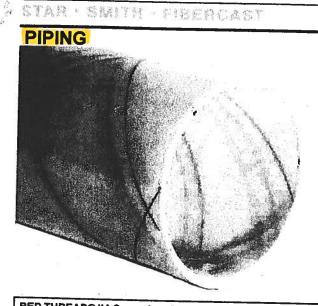
Xerxes Corporation is a leading developer, marketer and manufacturer of engineered fiberglass reinforced plastic (FRP) structural products for the petroleum, water/wastewater, chemical, industrial and commercial marketplaces. Our efforts are dedicated to providing high-quality, competitively priced products and services that meet the requirements of our customers. We are committed to a philosophy of growth and continual improvement of our products, services, processes and personnel in order to serve our stakeholders: customers, employees, stockholders and suppliers.

Fiber Glass Systems ***



Bulletin No. B2193 November 1, 2006

SMITH FIBERCAST PETROLEUM MARKETING Suggested Price Schedule



RED THREAD® IIA Primary Piping - All pipe is supplied spigot x spigot ends in 15-ft., 22-25 ft. or 26-30 ft. random lengths. RED THREAD IIA primary pipe is UL/ULC Listed.

ALL PRICES - U.S. DOLLARS

| Nominal PIPE SIZE | PART NUMBER | PIPE LENGTH | PRICE PER FOOT | WEIGHT | LENGTHS PER BUNDLE |
|-------------------------|----------------|----------------|----------------------|--------|--------------------------|
| 2" | 011020-069-1 | 15' | 3.90 | 0.4 | 8 |
| 2" | 011020-069-2 | 22-25' | 3.90 | 0.4 | 8 |
| 2" | 011020-069-3 | 26-30' | 3.90 | 0.4 | 8 |
| 3" | 011030-069-1 | 15' | 5.90 | 0.8 | 6 |
| 3" | 011030-069-2 | 22-25' | 5.90 | 0.8 | 6 |
| 3" | 011030-069-3 | 26-30' | 5.90 | 0.8 | 6 |
| 4" | 011040-071-1 | 15' | 7.50 | 1.0 | |
| 4" | 011040-069-2 | 22-25' | 7.50 | 1.0 | 4 |
| 4" | 011040-071-3 | 26-30' | 7.50 | 1.0 | 4 |

RED THREAD® IIA Secondary Containment Piping - All pipe is supplied plain end in 15-ft., 22-25 ft., or 26-30 ft. random lengths. Secondary Containment piping & fittings in 3" and 4" sizes are UL/ULC Listed. Note: 6" pipe and fittings are not UL/ULC Listed.

| NON PIPE SIZE | PART NUMBER | PIPE LENGTH | PRICE PER FOOT | WEIGHT | LENGTUS DED DUMOS - |
|---------------|--------------|-------------|----------------|--------|---------------------|
| 3" | 011030-069-4 | 15' | 5.90 | 0.8 | LENGTHS PER BUNDLE |
| 3" | 011030-069-5 | 22-25' | 5.90 | | 6 |
| 3" | 011030-069-6 | 26-30' | 5.90 | 8.0 | 6 |
| 4" | 011040-077-5 | 15' | 7.50 | 1.0 | 6 |
| 4" | 011040-069-5 | 22-25' | 7.50 | 1.0 | 4 |
| 4" | 011040-077-6 | 26-30' | 7.50 | 1.0 | 4 |
| 6" | 011060-120-5 | 15' | 13.50 | | 4 |
| 6" | 011060-120-4 | 22-25' | 13.50 | 2.4 | 2 |
| 6" | 011060-120-6 | | | 2.4 | 2 |
| | 011000-120-6 | 26-30' | 13.50 | 2.4 | 2 |

PRIMARY FITTINGS

| | | 90° PRIMARY ELBOW, belled ends | | | | | | | |
|-------|------|--------------------------------|-------|-----|------------------|--|--|--|--|
| (ر ٠٠ | SIZE | PART NUMBER | PRICE | | PARTS PER BOX | | | | |
| | 2" | 012020-360-4 | 34.30 | 1.2 | 20 | | | | |
| | 3" | 012030-360-4 | 46.80 | 2.3 | 12 | | | | |
| | 4" | 012040-360-4 | 65.80 | 3.3 | 6 | | | | |

| | | 45° PRIMARY ELBOW, belled ends | | | | | | | | |
|---------------|------|--------------------------------|-------|--------|------------------|--|--|--|--|--|
| و معصفیتین سر | SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX | | | | | |
| 4.00 | 2" | 012020-310-4 | 34.30 | 0.9 | 20 | | | | | |
| | 3" | 012030-310-4 | 46.80 | 1.6 | 15 | | | | | |
| | 4" | 012040-310-4 | 59.00 | 24 | 6 | | | | | |

| TEE, belled ends | | | | | | | | | | |
|------------------|----------------|-------|--------|------------------|--|--|--|--|--|--|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX | | | | | | |
| 2" | 012020-410-4 | 49.70 | 1.9 | 12 | | | | | | |
| 3" | 012030-410-4 | 54.80 | 3.6 | 6 | | | | | | |
| 4" | 012040-410-4 | 71.90 | 4.9 | 4 | | | | | | |

| | FLANGE, belied end | | | | | | | | | |
|------|--------------------|-------|--------|------------------|--|--|--|--|--|--|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX | | | | | | |
| 2" | 012020-170-4 | 28.20 | 1.3 | 16 | | | | | | |
| 3" | 012030-170-4 | 33.30 | 2.6 | 8 | | | | | | |
| 4" | 012040-170-4 | 38.40 | 3.6 | 6 | | | | | | |

| SLEEVE COUPLING, belled ends | | | | | |
|------------------------------|----------------|-------|--------|------------------|--|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX | |
| 2" | 012020-101-8 | 10.20 | 1.2 | 25 | |
| 3" | 012030-101-8 | 15.30 | 2.3 | 12 | |
| 4" | 012040-101-4 | 21.20 | 3.3 | 5 | |

| END CAP | | | | |
|---------|----------------|-------|--------|------------------|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX |
| 2" | 012020-180-4 | 42.00 | 1.4 | 16 |





| | NIPPLE, tape | red both | ends |
|----------|--------------|----------|---------------|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX |
| 2" x 4" | 012020-004-5 | 5.90 | 25 |
| 2" x 6" | 012020-006-5 | 6.60 | 25 |
| 2" x 8" | 012020-008-5 | 7.20 | 25 |
| 2" x 10" | 012020-010-5 | 8.50 | 12 |
| 2" x 12" | 012020-012-5 | 9.40 | 12 |
| 3" x 6" | 012030-006-5 | 7.20 | 12 |
| 3" x 8" | 012030-008-5 | 7.30 | 9 |
| 3" x 10" | 012030-010-5 | 9.40 | 5 |
| 3" x 12" | 012030-012-5 | 10.80 | . 5 |
| 4" x 6" | 012040-006-4 | 9.20 | 9 |
| 4" x 8" | 012040-008-4 | 9.40 | 6 |
| 4" x 10" | 012040-010-4 | 10.70 | 4 |
| 4" x 12" | 012040-012-4 | 12.60 | 4 |

| | THREADED ADAPTER | | | | |
|--------|------------------|-------|--------|------------------|---|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX | _1/ |
| Bell x | Male | | | | |
| 2" | 012020-191-4 | 15.00 | 0.3 | 25 | |
| 3" | 012030-191-4 | 28.20 | 0.6 | 12 | |
| 4" | 012040-191-4 | 31.80 | 1.0 | 9 | |
| Bell x | Female | | | | |
| 2" | 012020-194-4 | 15.00 | 0.3 | 25 | 7. S. F. + 100 |
| 3" | 012030-194-4 | 28.20 | 0.5 | 12 | V. |
| 4" | 012040-194-4 | 31.80 | 0.5 | 8 | |
| Spigo | t x Male | | | , | Branc |
| 2" | 012020-192-4 | 15.00 | 0.3 | 25 | |
| 3" | 012030-192-4 | 28.20 | 0.6 | 12 | |
| 4" | 012040-192-4 | 31.80 | 1.0 | 8 | |
| Spigo | x Female | - | | | \$21.50 PER |
| 2" | 012020-195-4 | 15.00 | 0.3 | 25 | |
| 3" | 012030-195-4 | 28.20 | 0.5 | 12 | _ 4 |
| 4" | 012040-195-4 | 31.80 | 0.6 | 8 | |



opening has female NPT threads.

| | | ER BUSH | | |
|---------------------------------------|----------------|---------|--------|------------------|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX |
| *2" x 1" | 012020-233-4 | 22.40 | 0.4 | 20 |
| *2" x 1 ¹ /4" | 012020-232-4 | 22.40 | 0.1 | 20 |
| *2" x 1 ¹ / ₂ " | 012020-231-4 | 22.40 | 0.1 | - 20 |
| 3" x 2" | 012030-231-4 | 23.30 | 0.8 | 24 |
| 4" x 3" | 012040-231-4 | 29.90 | 1.0 | 9 |

| 14 | SADDL | E, female | NPT | |
|------------|----------------|-----------|--------|------------------|
| SIZE | PART NUMBER | PRICE | WEIGHT | PARTS PER BOX |
| 2" x 11/2" | 012020-516-4 | 35.10 | 0.5 | 1 |



SUMP FITTINGS



| orași e | | SUMP ENTRY/TE | RMINATIO | ON FITTING |
|---------|-------|---------------------|----------|--|
| 1,1 | SIZE | PART NUMBER | PRICE | PARTS PER BOX |
| | Bonde | ed(1 Port, 3 Tapere | d Rings) | |
| | 3" | 012030-626-0 | 157.70 | 1 |
| | 4" | 012040-626-0 | 194.00 | 1 |
| | Gaske | ted(1 Port) | -2225 | |
| | 3" | 012030-620-0 | 212.30 | N/A |
| | 4" | 012040-620-0 | 303.20 | N/A |
| | | | | The state of the s |

| CONCENTRIC REDUCER | | | | | |
|--------------------|----------------|-------|------------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 4" x 3" | 012040-238-3 | 34.90 | 15 | | |
| 5" x 4" | 012050-238-3 | 72.80 | 10 | | |



4" x 3" Concentric Reducer must be ordered when using 3" sump entry/termination fitting.

 $5"\ x\ 4"$ Concentric Reducer must be ordered when using 4" sumpentry/termination fitting.

| SIZE | 1 |
|------|-----|
| 3" | 012 |

| SUMP ADAPTER | | | | | |
|--------------|----------------|-------|------------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" | 012030-610-1 | 92.40 | N/A | | |

Note: 3" x 2" Termination Fitting may be used with 3" sump adapter:

| TAP | PART NUMBER | PRICE | PARTS PER BOX |
|-------------------|--------------|--------|---------------|
| With 3/4" NPT Tap | 012030-236-3 | 103.00 | 12 |
| Without Tap | 012030-235-3 | 55.60 | 10 |

SECONDARY CONTAINMENT FITTINGS



| 90° ELBOW | | | | | |
|-----------|----------------|--------|------------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" | 012030-360-3 | 49.20 | 10 | | |
| 4" | 012040-360-3 | 95.20 | 5 | | |
| 6" | 012060-360-9 | 289.20 | N/A | | |

| SIZE | PART NUMBER | PRICE | PARTS PER BOX | |
|------|----------------|--------|------------------|--|
| 3" | 012030-310-3 | 49.20 | 10 | |
| 4" | 012040-310-3 | 95.20 | 5 | THE PARTY OF THE P |
| 6" | 012060-310-9 | 279.90 | N/A | |



| _ TEE | | | | | |
|-------|--------------|--------|---------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" | 012030-410-3 | 72.20 | 10 | | |
| 4" | 012040-410-3 | 118.80 | 5 | | |
| 6" | 012060-410-9 | 332.10 | N/A | | |



| | SLEEVE COUPLING | | | | | |
|------|-----------------|--------|---------------|--|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | | |
| 3" | 012030-101-3 | 42.20 | 10 | | | |
| 4" | 012040-101-3 | 92.00 | 5 | | | |
| 6" | 012060-101-9 | 251.80 | N/A | | | |



| SL | SLEEVE COUPLING, one-piece, Scarfed O.D. | | | | |
|------|--|-------|---------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 2" | 012020-101-9 | 20.80 | 25 | | |
| 3" | 012030-101-9 | 22.80 | 12 | | |
| 4" | 012040-101-9 | 28.80 | 5 | | |



| THREADED ADAPTER, Bell x Male, Scarfed O.D. | | | | |
|---|--------------|-------|---------------|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | |
| 2" | 002020-191-7 | 18.00 | 25 | |
| 3* | 002030-191-7 | 31.40 | 12 | |
| 4" | 002040-191-7 | 36.40 | 9 | |



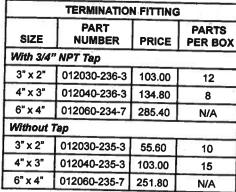
| | CROSSOVER 45° ELBOW | | | | | |
|------|---------------------|-------|---------------|--|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | | |
| 3* | 012030-311-3 | 57.50 | 10 | | | |
| 4" | 012040-311-3 | 97.80 | 5 | | | |

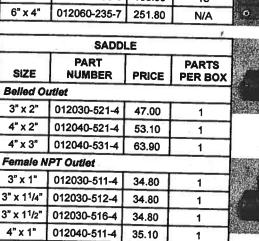


| CROSSOVER TEE | | | | | |
|---------------|--------------|--------|---------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" | 012030-411-3 | 74.40 | 10 | | |
| 4" | 012040-411-3 | 120.30 | 5 | | |



| CROSSOVER NIPPLE | | | | | |
|------------------|--------------|-------|---------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" x 6" | 012030-006-7 | 8.00 | 12 | | |
| 4" x 6" | 012040-006-7 | 9.30 | 9 | | |
| 6" x 8" | 012060-008-7 | 14.20 | N/A | | |





35.10

35.10

1



| REDUCER BUSHING, Scarfed O.D. | | | | | |
|-------------------------------|----------------|-------|------------------|--|--|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | | |
| 3" x 2" | 012030-231-7 | 18.80 | 24 | | |
| 4" x 3" | 012040-231-7 | 26.30 | 9 | | |

012040-512-4

012040-516-4

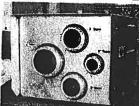
4" x 11/4"

4" x 11/2"



| CENTRALIZER | | | | |
|-------------|----------------|-------|------------------|---|
| SIZE | PART NUMBER | PRICE | PARTS PER BOX | X |
| 2" x 3" | 013020-650-3 | 12.70 | N/A | |
| 3" x 4" | 013030-651-4 | 13.80 | N/A | |
| 4" x 6" | 013040-650-6 | 16.00 | N/A | |



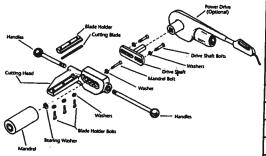


| POWER TOOLS | | | | | |
|--------------------------|--------------|----------|-------------------|--|--|
| DESCRIPTION | PART NUMBER | PRICE | SIZE | | |
| Model 2100 Taper/Scarf | 005990-795-0 | 1,771.70 | 110V | | |
| Model 2100-I Taper/Scarf | 005990-797-0 | 2,039.60 | 220/240V 50 cycle | | |
| Model 2102 Taper/Scarf | 005990-790-0 | 2,063.90 | 110V | | |
| Model 2102-I Taper/Scarf | 005990-780-0 | 2,160.90 | 220/240V 50 cycle | | |



| T.A.B JOINT WRENCH SETS | | | | | | |
|-------------------------|--------------|--------|------------------------|--|--|--|
| SIZE | PART NUMBER | PRICE | PRICE (TWO WRENCH SET) | | | |
| 2" | 005990-712-0 | 193.50 | 387.00 | | | |
| 3* | 005990-713-0 | 205.60 | 411.20 | | | |
| 4" | 005990-714-0 | 217.80 | 435.60 | | | |
| 6" | 005990-716-0 | 269.60 | 539.20 | | | |

MANUAL TOOLS & ACCESSORIES



| MANUAL TOOLS | | | | | |
|---|--------------|--------|--|--|--|
| DESCRIPTION | PART NUMBER | PRICE | | | |
| 2" - 4" Manual Tapering Tool | 005990-800-0 | 569.65 | | | |
| Cutting Head Kit | 005990-810-0 | 336.00 | | | |
| Power Adapter for Cutting Head | 005990-813-0 | 58.80 | | | |
| Adapter Block for 1" & 11/2" | 005990-812-0 | 74.55 | | | |
| Adapter Kit for 1" & 11/2" | 005990-811-0 | 211.05 | | | |
| Scarfing Adapter Kit for 3" & 4" Secondary Containment Pipe | 005990-915-0 | 109.75 | | | |
| Scarfing Adapter Kit for 6" Secondary Containment Pipe | 005990-922-1 | 148.60 | | | |
| 1" Mandrel | 005990-820-0 | 57.75 | | | |
| 11/2" Mandrel | 005990-821-0 | 70.90 | | | |
| 2" Mandrel | 005990-822-0 | 85.60 | | | |
| 3" Mandrel | 005990-823-0 | 122.35 | | | |
| 4" Mandrel | 005990-824-0 | 138.60 | | | |
| 6" Mandrel | 005990-825-0 | 212.65 | | | |
| Tapering Blade for 1" - 6" Tool | 005990-814-0 | 3835 | | | |
| Scarfing Blade for Secondary Containment | 005990-916-0 | 71.40 | | | |
| Blade Holder for Secondary Containment Blade | 005990-917-0 | 73.50 | | | |



| SECONDARY CONTAINMENT GAUGE NIPPLES | | | | | | |
|-------------------------------------|--------------|-------|--|--|--|--|
| SIZE | PART NUMBER | PRICE | | | | |
| 3" | 012030-050-0 | 6.10 | | | | |
| 4" | 012040-050-0 | 7.30 | | | | |
| 6" | 012060-120-0 | 18.80 | | | | |

PACKAGING

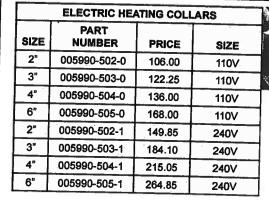
20/case

18/case

16/case

12/case

| | SMITH HEAT PACK | | | | | | | | |
|----|-----------------|--------------|-------|--|--|--|--|--|--|
| | SIZE | PART NUMBER | PRICE | | | | | | |
| 从太 | 2" | 005990-400-1 | 6.40 | | | | | | |
| | 3" | 005990-401-1 | 8.70 | | | | | | |
| | 4" | 005990-402-1 | 11.00 | | | | | | |
| | 6" | 005990-403-1 | 14.60 | | | | | | |







| | | ADHESIVES | 3 | |
|-------------------|-------------------|-----------|---------------------------|-----------|
| DESCRIPTION | PART NUMBER | PRICE | SIZE | PACKAGING |
| 7014 | 002990-000-0 | 16.50 | 6.8 oz. | 10/Box |
| 7024 | 002990-040-0 | 22.10 | 2.5 oz. Twin Pack | 10/Box |
| 7069 | 002990-030-0 | 22.10 | 9.95 oz. | 10/Box |
| 8014 | 022990-000-0 | 16.50 | 6.4 oz. | 10/Box |
| 8024 | 022990-050-0 | 22.10 | 2.7 oz. Twin Pack | 10/Box |
| 8055 | 8055 022990-020-0 | | 1.6 oz. Small Pack | 20/Case |
| 8069 | 8069 022990-033-0 | | 9.3 oz. | 10/Box |
| ILLER | | | | 10/20x |
| 7014-8014 | 002990-004-0 | 2.80 | For Secondary Containment | 50/Case |
| 7069-8069 | 002990-033-0 | 2.80 | For Secondary Containment | 50/Case |
| OLVENT | | | , contaminant | 00,0436 |
| Trichloroethylene | 002990-008-0 | 10.50 | 12 oz. | 12/Case |

| UL TRAINING KIT | PART NUMBER | PRICE |
|-----------------------|--------------|--------|
| 4-Person Training Kit | 012030-000-2 | 330.80 |

1 Each - 8024 Kit

2 Each - 2" 90° Elbows, 3" S.C. Couplings, 8014 Kit, 8014 Filler Kits 4 Each - 2" x 12" Plain End Pipe & 3" x 12" Plain End Pipe, B2160

MINIMUM ORDER - Total Quantity \$250.00

NOTE: MINIMUM ORDER TO RECEIVE DISCOUNT IS \$500.00

TERMS - F.O.B. Origin. A maximum of one pipe per bundle factory coupled lengths (joiners) may be shipped. All shipments will be to the nearest random length and billings will be made to the nearest foot shipped. Prices subject to change without notice. All sales subject to Fiber Glass Systems General Terms and Conditions of Sale.

[®] Trademark of Varco I/P, Inc.

^{© 2005,} NATIONAL OILWELL VARCO

PISCES™ CONICAL SEAL ENTRY FITTINGS

PISCES™ Conical Seal Entry Fittings are installed in sump walls to seal the entry of fuel pipes, conduits, and vapor pipes. Conical seal fittings require a single entry hole to be cut in the sump wall for installation, and can be replaced without excavation from inside the sump if installed with a PISCES™ Backfill Guard.





Ordering Specifications

| | | Nominal | Hole Saw | We | ight | |
|-----------|---|----------|--------------|------|------|------------------|
| Model No. | Conical Seal Pipe Entry Fittings | Boot ID. | Required | lbs. | kg. | Packaging |
| CS-400 | 4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting | 4%" | HS-600 (6") | 1.5 | 0.7 | 6/box |
| CS-300 | 3" PISCES™ AP30 Access/Containment or 3" FRP Pipe Entry Fitting | 3%" | HS-600 (6") | 1.5 | 0.7 | 6/box |
| CS-200 | 2" PISCES™ CP20 Double-Wall Primary Pipe Entry Fitting | 2%" | HS-600 (6") | 1.5 | 0.7 | 6/box |
| CS-200F | 2" FRP Pipe Entry Fitting | 2%" | HS-500 (5") | 1.5 | 0.7 | 6/box |
| CS-150 | 1½" PISCES™ CP15 Double-Wall Pipe Entry Fitting | 2" | HS-500 (5") | 1.3 | 0.6 | 6/box |
| CS-100 | 1" Rigid Conduit Entry Fitting | 1%" | HS-375 (3¾") | 1.3 | 0.6 | 6/box |
| CS-075 | ¾" Rigid Conduit Entry Fitting | 11/18" | HS-375 (3½") | 1.3 | 0.6 | 6/box |
| | | | | | | |

Conical Seal Entry Fittings With Integral Test Boots

Integral Test Boots provided on these fittings isolate the interstitial space between the primary and secondary pipes for air testing. A test port is provided for use with the LTK-36 Secondary Line Test Kit, and an optional air test valve is available.





Ordering Specifications

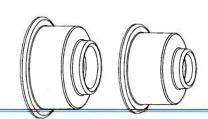
| | | Nominal | Hole Saw | Weight | | |
|-----------|---|----------|----------|--------|-----|------------------|
| Model No. | Conical Seal Pipe Entry Fittings | Boot ID. | Required | lbs. | kg. | Packaging |
| CS-420 | 4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting with Test Boot for 2" PISCES™ or FRP Primary Pipe | 2%" | HS-600 | 1.5 | 0.7 | 6/box |
| CS-420A | 4" PISCES™ AP40 Access/Containment or 4" FRP Pipe Entry Fitting with Test Boot with Air Stem for 2" PISCES™ or FRP Primary Pipe | 2%" | HS-600 | 1.5 | 0.7 | 6/box |
| CS-415 | 4" PISCES™ AP40 Access/Containment Pipe Entry Fitting with Test Boot for 1½" PISCES™ Primary Pipe | 2" | HS-600 | 1.5 | 0.7 | 6/box |
| CS-415A | 4" PISCES™ AP40 Access/Containment Pipe Entry Fitting with Test Boot with Air Stem for 1½" PISCES™ Primary Pipe | 2" | HS-600 | 1.5 | 0.7 | 6/box |
| CS315 | 3" PISCES™ AP30 Access/Containment Pipe Entry Fitting with Test Boot for 1½" PISCES™ Primary Pipe | 2" | HS-600 | 1.5 | 0.7 | 6/box |
| CS-315A | 3" PISCES™ AP30 Access/Containment Pipe Entry Fitting with Test Boot with Air Stem For 1½" PISCES™ Primary Pipe | 2" | HS-600 | 1.5 | 0.7 | 6/box |

Conical Seal Entry Fitting Backfill Guards

Backfill Guards are installed with conical seal fittings and enable the fittings to be replaced without excavation from inside the pump.

Ordering Specifications

| kg. 0.5 | Packaging 6/box |
|------------|--------------------------|
| 0.5 | 6/box |
| | |
| 0.5 | 6/box |
| 0.2 | 6/box |
| 0.2 | 6/box |
| | 0.5 0.5 0.5 0.2 |

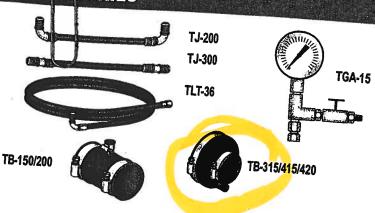




⇒ PISCES™ ENTRY FITTINGS AND ACCESSORIES

Test Boots and Line Test Kits

PISCES™ Test Boots and Line Test Kits are used to isolate and air-test the interstitial space between the primary and secondary pipes. One (1) Test Boot is required for each pipe end. Separate Test Boots are not required when using entry fittings with integral Test Boots. One (1) Line Test Kit LTK-36 is required per pipe section. Line Test Kits are not required when using on entry fittings with an integral Test Boot with an Air Test Stem on each pipe section.



Ordering Specifications

| Model I TB-150 | E TOTAL OIL | We | ight | |
|-------------------|--|--------|------------------|-----------|
| TB-200 | Test Boot, PISCES* 1½" (4 cm) Coaxial Pipe Interstice | lbs. | kg. | Packaging |
| TB-315 | Test Boot, PISCES® 2" (5 cm) Coaxial Pipe Interstice | 0.2 | 0.1 | 12/box |
| TB-315A | Test Boot, PISCES" 3" (8 cm) Access Pipe to 1½" (4 cm) Primary Pipe | 0.2 | 11 | 12/box |
| TB-320 | | 0.2 | 61 | 6/box |
| TB-320A | Test Boot, PISCES" 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem Test Boot, PISCES" 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe, or 3" (8 cm) FRP to 2" (5 cm) FRP Pipe Test Boot, PISCES" 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem | 0.2 | 91 | 6/box |
| TB-415 | Test Boot, PISCES" 3" (8 cm) Access Pipe to 2" (5 cm) Primary Pipe, or 3" (8 cm) FRP to 2" (5 cm) FRP Pipe Test Boot, PISCES" 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem | 30 | 0.1 | 6/box |
| TB-415A | Test Boot, PISCES" 4" (10 cm) Access Pipe to 1½" (4 cm) Primary Pipe with Air Stem Test Boot, PISCES" 4" (10 cm) Access Pipe to 1½" (4 cm) Primary Pipe | | 84 | 6/box |
| B-420 | | | 01 | 6/box |
| B-420A | Test Boot, PISCES" 4" (10 cm) Access Pipe to 1%" (4 cm) Primary Pipe with Air Stem Test Boot, PISCES" 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe or 4" (10 cm)FRP to 2" (5 cm) FRP Pipe Test Boot, PISCES" 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem | | 0.1 | 6/box |
| B-430 | Test Boot, PISCES" 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe or 4" (10 cm)FRP to 2" (5 cm) FRP Pipe Test Boot, PISCES" 4" (10 cm) Access Pipe to 2" (5 cm) Primary Pipe with Air Stem | | 0.1 | 6/box |
| B-430A | lest Boot, PISCES" 4" (10 cm) Access Pine As 2" (2 | | 0.1 | 6/box |
| J-300 | | | 01 | 6/box |
| | Test Jumper Kit for Retractable Pipe (connects TB-420, TB-320, TB-415, and TB-315) Test Jumper Kit for CP Pipe (connects TB-450 and TB-320, TB-415, and TB-315) | | 01 | 6/box |
| -200 | Test Jumper Kit for CP Pipe (connects TB-150 and TB-200) | (27) | 0.t | |
| -200A | rost duliper full with Air Stem Connections | | | 1/bag |
| Г-36 | lest Line Termination Kit. 36" (91 cm) | 0.2 | District. | 1/bag |
| T-36A | lest Line Termination Kit for use with Aintrease D | | र्वे कर्नन | 1/bag |
| 4-15 | The state of the s | 100.00 | TANKER! | 1/bag |
| 077 | | 100 | ROYA | /bag |
| 106 | Reducer Insert for CS/BF-100, 1031" (2.6 mm) ID. (6-1/8 LO Tech Wire) | No. | V.00 | /box |
| | Reducer insert for CS/BF-100, .1031" (2.6 mm) ID. (for X" / 2 cm Conduit/Large Dia. Tech Wire) | 0.2 | all and a second | /bag |
| enono | | 0.2 0 | | /bag |

Dispenser Pan Fittings and Accessories

PISCES" Pan Fittings are installed in the bottom of PISCES" Dispenser Pans to accommodate Pipe and Flex Connector Entries. The FIJ-3035 is used to isolate and contain Flex Connectors.







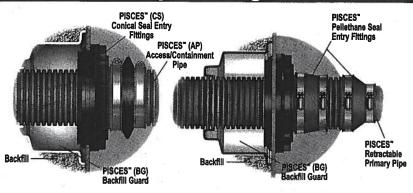




| Ordering Specifications | PEF-3520R | PEF-3515R | PEF-3515X | PEF-3515XR | -40 | FIJ-3035 |
|--------------------------------|-----------|-----------|---------------------|------------|-----|----------|
| | | | Nominal Boot I D | | | |

| | | | ninal | | | | |
|-----------------|---|------------|---------|--------------------------------|------------|-----------|-----------|
| PEF-3520R | Pan Fotos Sitting 28 /S | Boo in. | t I.D. | Hole Saw | We | ight | |
| PEF-3515R | Pan Entry Fitting, 2" (5 cm) FRP Pipe Entry | 2¾" | cm 6 | Required HS-300 (3" / 8 cm) | in. | kg. | Packaging |
| PEF-3515X | Pan Entry Fitting, 1½" (4 cm) Pipe Entry Pan Entry Fitting, 1½" (4 cm) Flex Connector (Hex Seal) | 2" | 5 | HS-300 (3" / 8 cm) | | | 3/box |
| PEF-3515XR | - all Elly I Ituliu, 12 (4 cm) Floy Connector (5 | 2" (Hex) | 5 | HS-300 (3" / 8 cm) | 2.5 2.5 | 1 | 3/box |
| | TO ADOVE MODE! Numbers for Air Took V. | 2%" | 6 | HS-300 (3" / 8 cm) | 2.5 | 4 | 3/box |
| | riexible isolation Jacket, 30" (76 cm) Long v 21/11/6 | | | | | | JIDOX |
| | TOTAL TO CITY FIRE (2%" / 6 cm LD. Cool) | | | | | 19 JI | 6/box |
| JI-15X | Insert, 2" / 5 cm Flex Connector (2%" / 6 cm Hex Seal) Insert, 1%" / 4 cm Flex Connector (2" / 5 cm Hex Seal) | | | | | 0.1 | 1/bag |
| © Copyright 200 | 5, OPW Fueling Components | | | | | 0.1 | 1/bag |
| 17.1g.ii. 200 | o, or w rueling Components | | | | U.E. 7 | M. Carlot | 1/bag |

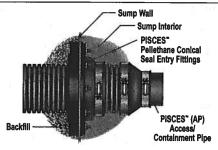
PISCES™ Entry Fittings



PISCES™ Conical Seal Entry Fittings

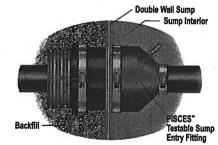
PISCES™ Conical Seal Entry Fittings provide a reliable seal for piping and conduit entries through containment sump walls, and are engineered for long-term integrity in the harsh underground environment. Featuring a single hole through the sump wall for quick installation, PISCES™ Conical Seal Entry Fittings are completely field-replaceable without excavation when installed with a PISCES™ Backfill Guard. Massive sealing forces are generated against the I.D. of the hole in the sump wall as the cone is pulled inward by tightening the nut. Molded Acme threads and a blunt starter thread provide precision "spin-on" assembly and prevent cross-threading.





PISCES™ Bolted Flange Entry Fittings

PISCES" Bolted Flange Entry Fittings feature a ribbed sealing surface for added sealing protection, and rubber encapsulated metallic or reinforced composite parts outside the sump for corrosion resistance. Minimum spacing between nuts ensures consistent sealing forces on uneven sump wall surfaces, and a lipped ring provides added strength and rigidity. In addition, PISCES" Bolted Flange Entry Fittings offer a positive mechanical seal with nuts that pull the fitting body and studded ring against the outer sump wall. The boots on "BFP" fittings are replaceable from inside the sump without excavation.



PISCES™ Testable Dispenser Sump Entry Fittings

High-quality PISCES™ entry fittings provide a reliable seal for piping and conduit entries through containment sumps. PISCES™ now offers testable entry fittings specifically designed for continuous vacuum monitoring of the secondary containment system, compliant with AB-2481.

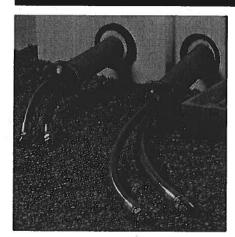


Compact Electrical Conduit Fittings

These compact, electrician-friendly conduit fittings require only one hole to be drilled in the sump wall. A captured o-ring ensures long term seal integrity. The low profile (3½" diameter) and 15" angled entry capability preserves flexibility in conduit entry locations.



PISCES™ Fuel Oil/Generator System Piping



The PISCES™ Fuel Oil Piping
System is designed to provide a
reliable, secondarily contained
fuel supply system to generators
and boilers from remote fuel tanks.
Typical applications include both
a ³/4" supply and a 1" overflow
return line running from a remote
AST or UST to a generator engine
or boiler day tank. Both lines are
typically inserted into a common
PISCES™ Access/Containment Pipe
to provide retractable access to,
and containment of, the fuel lines.



on should be based on physical specifications and limitations and compatibility with the environment of mass to a careera ruse. All historianous and specifications in the

ice: OPW/PISCESTM by OPW, Inc. products must be used in comp

9393 Princeton-Glendale Road Cincinnati, Ohio 45011 Tel: (800) 422-2525 Fax: (800) 421-3297 www.opw-fc.com

ns are subject to change at any time, and models

PISCES™ Primary Fuel Oil/Generator System Pipe Nylon-Lined Core Tube

- Excellent fuel and chemical resistance properties.
- Smooth bore ensures efficient flow characteristics.

Nylon Outer Jacket

- Unparalleled resistance to microbial attack.
- Integral braided fiber reinforcement for strength and pressure containment.

PISCES" Access/Containment Pipe PISCES" Double Wall Access/Containment Pipe

- Allows for retractability of primary pipe without excavation for inspection, repair or replacement.
- Superior crush and puncture resistance for added protection from backfill.
- Added layer of containment protection.

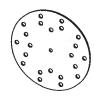




PISCES[™] Fuel Oil Pipe is UL Listed per UL 971, standard for non-metallic piping for use with flammable liquids, and for use with Diesel and Fuel Oil.











Ordering Specifications

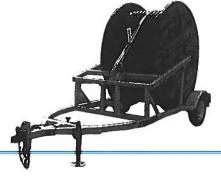
| | | 3011 | |
|-----------|--|-------|-------------|
| Model No. | Description | lla a | Weight |
| HS-275 | Hole Saw, 2%" c/w Arbor | lbs. | kg. |
| HS-300 | Hole Saw, 3" c/w Arbor | 0.5 | 0,2 |
| HS-350 | Hole Saw, 3½" c/w Arbor | 0.5 | 6.2 |
| HS-375 | Hole Saw, 3%" c/w Arbor | 0.5 | 0.2 |
| HS-450 | Hole Saw, 4½" c/w Arbor | 0.5 | 0.2 |
| HS-500 | Hole Saw, 5" c/w Arbor | 1 | 0.5 |
| HS-550 | Hole Saw, 5½" c/w Arbor | | 0.5 |
| HS-600 | Hole Saw, 6" c/w Arbor | | 0,5 |
| CHS-275 | Carbide Tip Hole Saw, 2%" (for FRP Sumps) | 1 | 0.5 |
| CHS-300 | | 0.5 | 0,2 |
| CHS-350 | Carbide Tip Hole Saw, 3" (for FRP Sumps) | 0.5 | 0.2 |
| CHS-375 | Carbide Tip Hole Saw, 3½" (for FRP Sumps) | 0.5 | 0,2 |
| CHS-450 | Carbide Tip Hole Saw, 3%" (for FRP Sumps) | 0.5 | 0.2 |
| | Carbide Tip Hole Saw, 4½" (for FRP Sumps) | 1 | 0.5 |
| CHS-500 | Carbide Tip Hole Saw, 5" (for FRP Sumps) | 1 | 0.5 |
| CHS-550 | Carbide Tip Hole Saw, 5½" (for FRP Sumps) | 1 | 0.5 |
| CHS-600 | Carbide Tip Hole Saw, 6" (for FRP Sumps) | 1 | 0.5 |
| HSA-600 | Hole Saw Arbor for Carbide Tip Hole Saws (CHS) | 1 | 0.5 |
| BFT-300 | Bolted Flex-Flange Fitting Installation Template | 1 | 0,5 |
| SL-1100 | Urethane Sealant (Packaged 12 Tubes/Case) | 1 | 0:5 |
| CSW-300 | Conical Seal Entry Fitting Wrench (for CS-200, 300, 400) | 0.5 | 0,2 |
| CSW-200 | Conical Seal Entry Fitting Wrench (for CS-200F, 150) | 0.5 | 0.2 |
| CSW-100 | Conical Seal Entry Fitting Wrench (for CS-100, 075) | 0.5 | 0,2 |
| BCW-30 | Band Clamp Wrench, 30 in. lbs. | 1 | .0.5 |
| BCW-60 | Band Clamp Wrench, 60 in. lbs. | 1 | 0.5 |
| SW-300 | Open-Face Entry Fitting Spanner Wrench (for all CS Fittings with pipe installed) | 1 | 0.5 |
| | | | 7079 200234 |

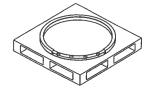
PISCES™ Pipe Reel Handling Equipment

The PISCES™ Pipe Reel Trailer provides a convenient means to both transport and unroll PISCES™ Pipe. The PISCES™ Pipe Reel Carousel provides a convenient means of unrolling PISCES™ Pipe Reels.

Ordering Specifications

| Model No. | Description |
|-----------|----------------------------|
| PRT-1000 | PISCES™ Pipe Reel Trailer |
| PRC-1000 | PISCES™ Pipe Reel Carousel |



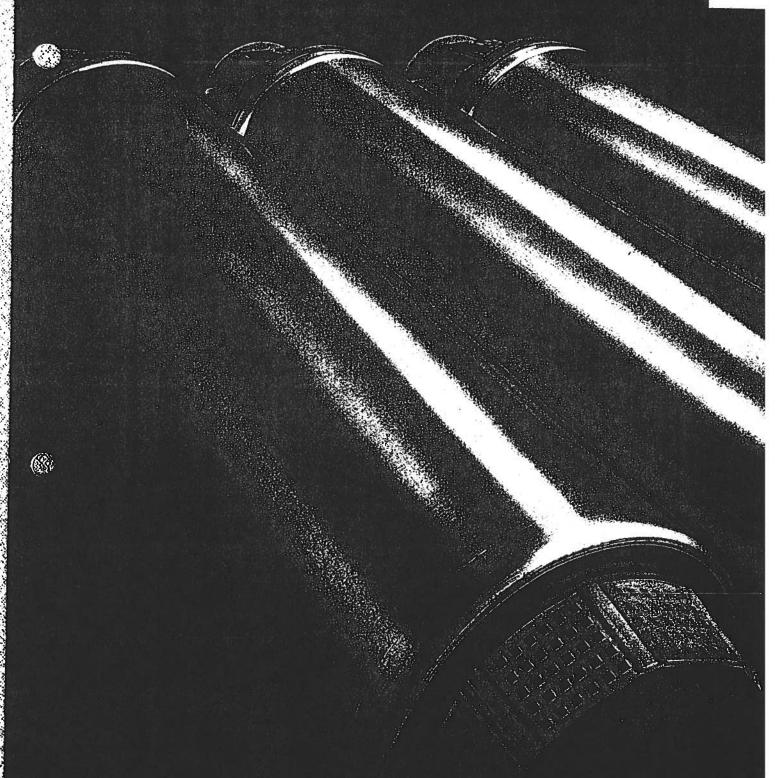






SUBMERGED TURBINE PUMPS





...NOW, WITH OUR UNIQUE VARIABLE LENGTH AND VARIABLE SPEED OPTIONS



FE PETPOS



Product Specification

Quick Links:

Home History Literature Folletos Technical Técnica Events

Contact Us Search

Location: FE Petro Home > Product Literature > Submersible Turbine Pump

SUBMERSIBLE TURBINE PUMP SPECIFICATIONS

(Fixed speed models: 1/3, 3/4, 1-1/2, and 2 horsepower)*

GENERAL

- The entire pumping assembly shall have UL listing and shall meet all requirements of UL Standard UL 79.
- The pump discharge head and manifold assembly shall be manufactured from ASTM A48 Class 25 gray iron.
- The pump shall be available in 1/3, 3/4, 1 1/2, and 2 horsepower sizes and shall be manufactured to the proper length as determined by the tank diameter, type of tank, and bury depth.
- An optional variable length telescopic feature shall be provided such that the length of the pump is field adjusted at the job site to fit the specific pump length required. This variable length option shall be available in three variable length ranges, referred to as VL1, VL2 & VL3, where the VL2 model will fit 94% of all known installations.
- The pump motor shall have a thermal over-current overload protector with automatic reset.
- The pump motor assembly shall be clearly marked with pertinent information including Model, Horsepower, Voltage, Phase, and Manufacturer.
- Fixed speed Single-phase pump motors shall be a permanent split phase capacitor, and shall incorporate a 15 µF capacitor for 1/3, 3/4, and 1 1/2 horsepower motors and a 40 µF capacitor for 2 horsepower motors.
- The pump shall be UL listed for blend concentrations of:

Standard models:

0% - 15% ethanol or methanol and gasoline

20% ETBE with 80% gasoline

20% MTBE with 80% gasoline

17% TAME with 83% gasoline

AG (alcohol/gasoline) models:

0% - 100% ethanol or methanol and gasoline

20% ETBE with 80% gasoline

20% MTBE with 80% gasoline 17% TAME with 83% gasoline

- · The pumping unit shall not incorporate any flexible diaphragms and all sealing shall be accomplished with O-rings or UL recognized gaskets.
- The pump shall be rated to operate between -40°F (-40°C) and 104°F (40°C) with non-gelled product.
- · FE Petro Inc. shall manufacture the pump.

INSTALLATION AND MAINTENANCE

- The pump shall have a two or three wire field connection depending on single or three phase models and an easy access ground wire terminal, and shall incorporate a wire retainer which will accommodate these wires.
- The pump shall incorporate a port for line pressure testing that shall be sealed with a 1/4" NPT pipe plug.
- The pump head shall be equipped with a manual pressure relief screw to manually drop line pressure to zero by venting line pressure into storage tank. Purpose of this function is to avoid fuel spraying into dispenser and pump containment sumps during any routine service requiring piping to be opened to atmosphere such as filter replacement or leak detector maintenance.
- The pump unit shall have a fully extractable head in order to permit removal of the pump motor assembly without disturbing the discharge piping, product in the pipelines downstream of the check valve, syphoning system with syphon check valve installed, or the electrical wiring.
- · During the removal of the extractable portion of the pump, product contained in the discharge manifold of the pump shall drain automatically into the storage tank.
- The pump will be equipped as standard with a 2 3/4" line check valve.
- The line check valve shall be independent of the removable head and shall be easily accessible.
- The pump motor shall be interchangeable by horsepower with different manufacturers' products.

OPERATION

- The pump shall have an air/vapor elimination system that returns air or vapors to the underground storage tank through a tube.
- The pump unit shall contain a built-in expansion relief valve that relieves pressure at or above pumping pressure but below 50 psi as standard. Other pressure relief settings required by electronic line leak detection shall be

available.

- The pump motor shall utilize the product being pumped for lubrication of the motor bearings and for cooling the stator, and this fluid shall discharge into the underground storage tank at the top of the motor.
- The pump shall have syphon capability built into the pump as standard.
- Note: Some fixed speed model pumps may not be available in certain voltage, frequency, and phase ratings

STP001

"Left click" to VIEW pdf.



To SAVE pdf "Right Click" & choose 'Save Target As...'

Corporate

Submersible EMPD - Fractional HP Motors Fueling Systems International

TOP

07/15/02



Copyright 1998-2005. Please review our Terms of Use before accessing this site. FE Petro, Inc. 3760 Marsh Road, Madison, WI 53718, U.S.A. E-mail: webmaster@fepetro.com Tel: 608.838.8786 Fax: 608.838.6433





Product Literature

Quick Links:

Contact Us Search

Home History Literature Folletos Technical Técnica Events Training Location: FE Petro Home > Product Literature > Dispenser Hook Isolation (STP-DHI)

FE PETRO DISPENSER HOOK ISOLATION





ISOLATES DISPENSER HOOK CIRCUITS TO PREVENT ELECTRICAL FEEDBACK AS REQUIRED BY MOST ELECTRICAL CODES

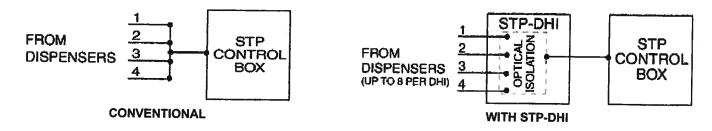
FEATURES:

- Optically isolated inputs from up to eight dispensers.
- LED's indicate when source power is applied and dispenser hook signals are present.
- Can be supplied factory wired in tandem with the FE Petro Smart Controller or our standard control box.
- Compatible with any submersible pump controller.
- Fuse protected output to submersible pump controller.
- · Retrofittable to any existing site.

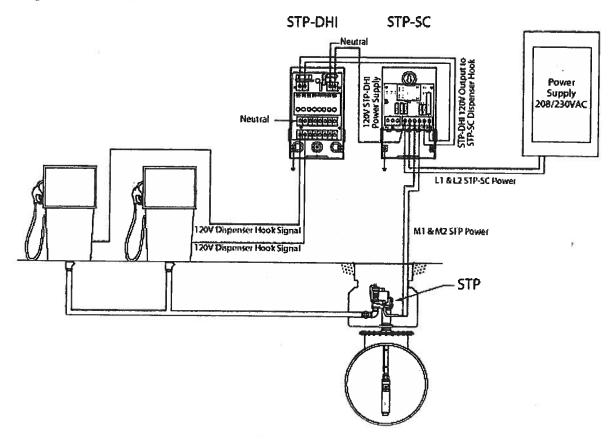
BENEFITS:

- Prevents damage to dispenser relay boards caused by cross-phasing.
- Prevents electrical feedback between dispenser hook circuits during periods of maintenance and service as required by NEC 514-6, 1999, and other international codes.
- Aids in troubleshooting dispenser hook circuits because signals are isolated.
- Eliminates false STP run due to voltage leakage of multiple dispensers connected in parallel.
- · Small size.
- Low cost.

EASY TO RETROFIT:



TYPICAL INSTALLATION:



CONFIGURATIONS:







STP-DHI With Smart Controller



STP-DHI With Variable Frequency Controller Note: Not available factory wired

SPECIFICATIONS:

- Enclosure size: 8.5"h x 5"w x 3"d (215mm x 127mm x 76mm)
- · 8 optically isolated inputs from dispenser
- One STP-DHI required per product grade for up to 8 dispensers
- 120V & 240V models available:
 - -120V STP-DHI: (1) 120V 30VA input from supply. (8) 120V, 10mA inputs from dispensers
 - -240V STP-DHIB: (1) 240V 30VA input from supply. (8) 240V, 10mA inputs from dispensers
- Output fuse rating: 250V 1A, fast acting
- 300 Volt surge protection
- Maximum ambient temperature rating: 120°F
- UL and C-UL Listed

Rev. 9/99

Page 3 of 3

"Left click" to VIEW pdf.

To SAVE pdf "Right Click" & choose "Save Target As..."

Corporate

Submersible EMPD - Fractional HP Motors Fueling Systems International



Copyright 1998-2005. Please review our Terms of Use before accessing this site. FE Petro, Inc. 3760 Marsh Road, Madison, WI 53718, U.S.A. E-mail: webmaster@fepetro.com Tel: 608.838.8786 Fax: 608.838.6433

TOP

FE PETRO* Franklin Fueling Systems

Product Literature

STP-SCI

Quick Links:

Contact Us Search

Home History Literature Folletos Technical Técnica Events Training

THE FE PETRO SMART CONTROLLER™

Location: FE Petro Home > Product Literature > FE Petro Smart Controller (STP-SCI)



PROTECTS AND CONTROLS YOUR SUBMERSIBLE PUMP INVESTMENT

DESIGNED TO REPLACE STANDARD CONTROL BOXES IN BOTH NEW AND EXISTING INSTALLATIONS, THE STP-SCI CONTROLLER PROVIDES VALUABLE PUMP PROTECTION AND PERFORMANCE FEATURES NEVER BEFORE OFFERED IN ONE ECONOMICAL CONTROLLER.

FEATURE:

EXTENDED PUMP RUN DETECTION

Automatically shuts pump off after 60 minutes of running with no pumping activity.

MASTER/SLAVE OPERATION

Provides "on demand" automatic pump start of up to 16 submersible pumps manifolded to the same discharge line. Master pump starts under low demand, and additional pumps are started as needed as demand increases. **Note:** Auto start feature is designed for pumps rated 3/4 HP and higher.

DRY RUN PROTECTION WITH AUTOMATIC RESET Detects dry run condition in empty tank and automatically shuts pump off. Condition is indicated by an audible and visual alarm. The condition automatically resets if tank is refilled.

EASY RETROFIT

The SCI is compatible with single phase STP's 1/3 through 2HP; FE Petro or competitive makes.

BENEFITS:

- Since all mechanical and most electronic line leak detection systems require that the submersible pump be shut off to perform a line leak test, this feature ensures the pump will shut off to enable the leak detection device the opportunity to test for line leaks.
- Indicates fault in dispenser on/off control signal to submersible.
- Extends motor life by protecting the motor from continuous running conditions that cause needless wear on motor bearings.
- Can be disabled for back-up generator systems that run STP for more than one hour during testing.
- Reduces power consumption and extends pump life by running only the number of pumps needed to meet the current demand of open nozzles.
- Improves flow rates during busy periods by automatically starting additional pump(s) on demand.

Significantly extends motor life by eliminating this frequent cause of premature motor failure.

Retrofitting existing stations is as simple as replacing the existing control box with the STP-SCI and pressing the reset button to allow the controller to automatically "learn" the electrical characteristics of the pump.

ALTERNATING PUMP CONTROL

In manifolded pumping systems, controllers continually

• Provides for equal wear of all pumps in the

alternate the lead pump.

manifolded system by alternating the lead pump on every start cycle.

 In the event of a pump failure, the other pumps in the manifolded system continue to operate normally, providing a backup system and avoiding shut down of that grade of product.

HISTORY STORAGE OF PUMP CONDITIONS

In manifolded pumping systems, controllers continually alternate the lead pump.

OPEN CIRCUIT DETECTION

Detects an open circuit between motor and controller. Condition is indicated on flashing red light alerting service technician to the cause of the problem.

LOW VOLTAGE DETECTION

Detects low voltage conditions that cause excessive heat in motor. Condition is detected and pump automatically shuts off. Once voltage returns to operating range, the STP-SCI auto resets allowing motor to run.

PUMP MOTOR FAILURE DETECTION

Signals locked rotor in pump motor by flashing red light.

REMOTE DIAGNOSTIC CAPABILITY

All STP-SCI controllers are equipped with an RS485 serial communication port to facilitate on site and remote communications of all diagnostic functions for future site integration.

Service technicians can quickly view a history of abnormal conditions, particularly useful when troubleshooting intermittent conditions.

Reduces service cost by quickly defining the cause of trouble to the service technician.

Extends motor life by eliminating progressive heat damage to motor windings.

Reduces service time by immediately alerting service technician to cause of problem.

Provides the future opportunity for service personnel to determine the "fault" prior to arriving at the site, assuring the availability of parts and technical support on the first service call. This reduces the chance of multiple service visits to correct a pump problem, thereby reducing service costs and downtime.

COMPARE THE STP-SCI CONTROLLER FEATURES TO STANDARD SUBMERSIBLE PUMP CONTROL BOXES.

| FEATURE | STP-SCI SMART CONTROLLER | STANDARD CONTROL BOX |
|--------------------------------------|-----------------------------|-------------------------|
| Dry Run Protection w/Automatic Reset | Yes | No |
| Low Voltage Detection | Yes | No |
| Pump Motor Failure Detection | Yes | No |
| Open Circuit Detection | Yes | No |
| Extended Pump Run Detection | Yes | No |
| Slave Pump Auto Start Operation | Yes | No |
| Auto Sequencing of Manifolded Pumps | Yes | No |
| Fault Diagnostic Lights | Yes | No |
| Pump Operating Light | Yes | No |
| High Voltage Surge Protection | Yes | No |
| Power "ON" Light | Yes | Yes |
| External Run Light Provision | Yes | Yes |
| Compatible with 1/3 through HP | Yes | Yes |
| 30 Amp Line Contractor Relay | Yes | Yes |

SPECIFICATIONS:

- Controller size: 8.5"h x 5"w x 3"d (215mm x 127mm x 76mm)
- Relay amperage rating: 30 amps.
- · Relay/hook signal voltage: 120/240 volt
- Compatible for use on all FE Petro single-phase submersibles and competitive makes.

• UL and CUL Listed.

OTHER STANDARD FEATURES:

- · Communication from tank gauge will signal either pump to "lead", based on product level in the tank of a manifolded system.
- "Pump on" indication is provided by flashing green light.
- Provision for remote "pump on" pilot light.
- Built-in 300 volt surge protection.
- Flashing yellow light indicates RS485 is communicating.
- RS485 comp port.

STPB005

"Left click" to VIEW pdf.



To SAVE pdf "Right Click" & choose "Save Target <u>A</u>s..."

Submersible EMPD - Fractional HP Motors Fueling Systems International

Copyright 1998-2005. Please review our Terms of Use before accessing this site.

FE Petro, Inc. E-mail: webmaster@fepetro.com

3760 Marsh Road, Madison, WI 53718, U.S.A. Tel: 608.838.8786

Fax: 608.838.6433

Rev. 06/02

TOP



VMI 99 LD-2000 New Series

Highest Performance,
Most Requested Mechanical Line Leak Detector Built Today!!

- Any Fuel*
- Any Pump*
- Any Pipeline System*
- Longest Length Pipeline System*
- Largest Volume Pipeline System*
- Integrated Check Valve / Pressure relief

*see technical specification





The 99 LD-2000

The 99 LD-2000 is now the most requested mechanical line leak detector built today. New engineering and the VMI 2-year warranty (after installation) make the 99 LD-2000 more attractive to station operators today than ever before. Not only is the 99 LD-2000 less expensive to own, it is faster and less subject to field and line variables than ever before!

Integrated In-Line Check Valve / Pressure Relief

Leaking check valves in the turbine, defective submersible pump pressure relief, or a defective bypass valve will allow the line system to depressurize, resetting the leak detector. Drain-back into the pump or thermal contraction will cause vapor pockets to form. Vapor pockets increase the length of time it takes for a leak detector to open to full flow. Pump problems such as these result in slow flow and technical support calls. The resulting service costs and customer dissatisfaction all take away from the bottom line - making money.

The 99 LD-2000 Is The Only Leak Detector Capable Of Holding Line Pressure After the Pump Is Off—Even With Pump Component Wear Or Failure.

In addition to the submersible pump problems encountered without an in-line check valve, the metering portion of the leak detector is hammered by hydraulic shock. This results in many leaks going undetected. Those leak detectors are just not equiped for the job you purchased them for.

The 99 LD-2000 is the answer you have been looking for. VMI leak detectors, with an integrated check valve and pressure relief valve, will save money and reduce customer frustration at the dispenser and reduce service calls.

The 99 LD-2000

Has A Higher Level Of Performance Over A broader Range of Burial Depth, Line Length, And Piping System Types Than Any Other Leak Detector

Additional Features

- Over 20% increased flow capacity
- Guaranteed for 24 months from date of installation to detect 3 GPH @10 PSI leak
- · One Way Poppet flow path
- Reverse Ratio Piston / Poppet combination
- Smaller Volume Faster Response piston size
- · Shortest profile leak detector available for "tight" installations
- All fuels (gasoline diesel alcohol)
- All pipelines (flexible fiberglass steel) up to 400 ml. resiliency
- Exceeds EPA regulations (3 GPH @ 10 PSI)
- Detects leaks up to 10' above the leak detector
- Installs with 2 1/16" six point socket or pipe wrench

Increased Flow Capacity

• The 99 LD-2000 has maximized the flow and flow path in existing, older submersible pump heads. This new design allows over 20% more flow than previous LD -2000 models, maximizing pump performance for earlier pump heads.

Longest Guarantee

• The 99 LD-2000 shares the longest guarantee available in the industry, along with all other VMI 99 LD-2000 series leak detectors. For 24 months from date of installation, the LD-2000 is guaranteed to see a 3 GPH leak @ 10 PSI

One Way Poppet Flow Path

• The One Way Poppet Flow Path isolates pump turbulence from line leak detection at pump startup. The hardened stainless steel poppet does not dimensionally change because of thermal conditions encountered during station operation (precision metering change is insignificant down to -20° F).

Reverse Ratio Piston / Poppet Combination

• Reverse Ratio means the leak detector has a smaller diameter piston area (smaller than the poppet it is attached to). This smaller piston area keeps the leak detector in the fast fill position (2 GPM) to a higher pressure while compressing vapor pockets and stretching flexible lines faster. This means less time to full flow! The leak detector does not have to completely reset (as with competitive leak detectors) for the poppet to be forced into the reset mode at pump startup.

Smaller Volume / Faster Response Piston Size

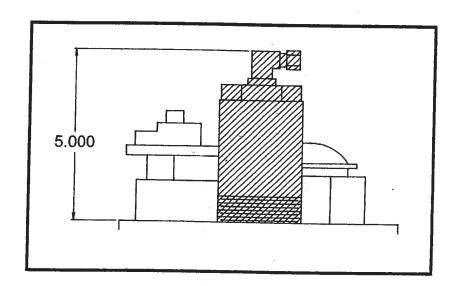
• With a reduced piston size there is one fourth the volume to replace when in leak search and one fourth the volume to return to the line when the pump turns off. This combination makes for a more responsive and faster leak detector. Less volume to leave the line for the leak detector to reset and catch leaks. Less volume to fill and provide full flow for dispensing!

Superior Flex-Pipe Performance

• The reduced surface area of the piston significantly reduces the surface area exposed to hydraulic line shock. This results in enhanced performance with steel and fiberglass pipe, and especially with today's flexible pipe.

Shortest Leak Detector Profile

• The 99 series leak detectors are the lowest profile leak detectors available.





Vaporless Manufacturing Inc. 8700 East Long Mesa Drive Prescott Valley, Arizona 86314 1-800-367-0185 (928) 775-5191

www.vaporless.com

Fax (928) 775-5309

Technical Specifications 99 LD-2000

All Fuels

- Gasoline, 100% methanol, 100% ethanol, up to 15% MTBE
- · Any combination of the above
- #1 or #2 diesel, Kerosene, (Jet A or JP 4 *consult factory for substitution of bronze parts)

Certified to meet EPA 3 GPH @ 10 PSI:

- Maximum Rigid Pipeline size: 400 ft. of 3.25 inch diameter line or up to 172 gallon volume
- Maximum Flexible Pipeline size: 415 ft. of 1.5 inch diameter line or up to 39.5 gallon volume

U.L. listed containment housing

- for pump pressures through 50 PSI
- Schedule 40 cast iron internally plated with zinc phosphate. Externally finished with oven baked powder coat

Internal Housing

· Hard Anodized, 6061 T6 Aluminum

Check Valve

- Delrin
- Tygothane® polyurethane seal

Pressure Relief

- Stainless Steel
- 29 PSI Pressure relief (holds in addition to pump pressure relief)

Seals

- Piston / Poppet: Teflon, stainless steel spring energized
- O Rings:

Mil Specification; R-83248 Fluorocarbon

Metering Pin and Poppet

• 17-4 Stainless Steel

Misc. Component Specification

- 660 Bronze
- 6061 T6 Aluminum
- 1026 cold roll steel chrome plated

Reverse Ratio Piston-Poppet

One Way Poppet Flow-Path

For Installation with variable or non-variable speed turbines.

Vent line must be unobstructed, leak tight and connected to headspace of tank, not to be subjected to pressure or vacuum.

Can be installed in submersible pump or leak detector adapter Tee.

For chemical applications other than listed above, contact factory.

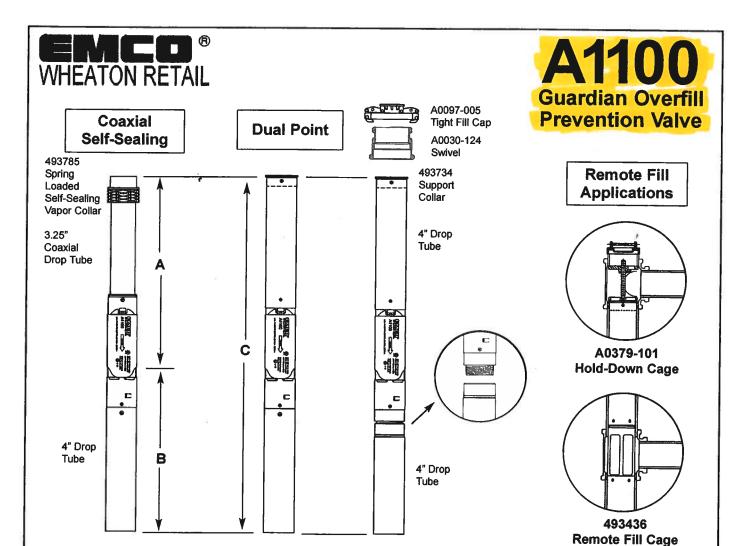
For installation instructions or further information on the 99 LD-2000 or other line leak detection equipment, contact your local distributor or call:



Vaporless Manufacturing Inc. 8700 East Long Mesa Drive Prescott Valley, Arizona 86314 1-800-367-0185 (928) 775-51

1-800-367-0185 (928) 775-5191 Fax (928) 775-5309 www.vaporless.com

*Patent pending



| Model No. | Upper Description | Lower Length A | Overall Length B | Max. Burial Length C | Nominal Depth | Tank Dia. | Weight |
|-------------|--------------------------|-------------------|---------------------|-------------------------|------------------|-----------|-----------|
| A1100-010 | Valve Only | N/A | N/A | N/A | N/A | N/A | 4.3 lbs. |
| A1100-055 | Dual Point | 7 7 ° | 89" | 166" | 6.0' | 8' | 19.2 lbs. |
| A1100-056 | Dual Point | 89" | 101" | 190" | 7.0' | 10' | 21.4 lbs. |
| A1100-057 | Dual Point | 89" | 127" | 216" | 7.0' | 12' | 24.8 lbs. |
| A1100-058 | Dual Point | 127" | 127" | 254" | 10.0' | 12' | 28.1 lbs. |
| A1100-055S | Dual Pt Screw Together | 77" | 92" | 169" | 6.0' | 8' | 21.5 lbs. |
| A1100-056S | Dual Pt Screw Together | 89" | 104" | 193" | 7.0' | 10' | 23.7 lbs. |
| A1100-057S | Dual Pt Screw Together | 89" | 130" | 219" | 7.0' | 12' | 27.1 lbs. |
| A1100-058S | Dual Pt Screw Together | 127" | 130" | 257" | 10.0' | 12' | 30.4 lbs. |
| A1100-054SC | DP Screw Together w/Cage | 54" | 110" | 164" | N/A | N/A | 26.0 lbs. |
| A1100-065 | Coaxial | 73" | 89" | 161" | 6.0' | 8' | 20.4 lbs. |
| A1100-066 | Coaxial | 73" | 101" | 173° | 5.5' | 10' | 22.8 lbs. |
| A1100-067 | Coaxial | 73" | 127" | 199" | 5.0' | 12' | 25.3 lbs. |
| A1100-085 | Coaxial Self-Sealing | 73" | 89" | 162" | 6.0' | 8' | 20.9 lbs. |
| A1100-086 | Coaxial Self-Sealing | 73" | 101" | 174" | 5.5' | 10' | 23.3 lbs. |
| A1100-087 | Coaxial Self-Sealing | 73" | 127" | 200" | 5.0' | 12' | 25.8 lbs. |

For custom lengths, please contact our Customer Service Department. Lengths A and B are measured from the shut-off point (flapper). Maximum burial depth assumes 95% shut-off and 6" clearance between top of drop tube and inside bottom of containment manhole lid. Consult our Customer Service Department for shorter profile adapters.

All assemblies available with screw-together option.

4

Emco Wheaton Retail Corporation

2300 Industrial Park Drive • Wilson, North Carolina 27893

252-243-0150 • 252-243-4603 (fax) • www.emcoretail.com

Form O-1004 Date 05/05

OPW 7111SS-CSDW DOUBLE WALL STAINLESS STEEL SPILL CONTAINER

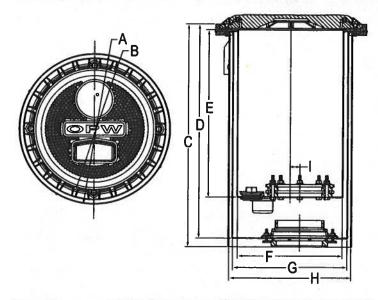
FEATURES & BENEFITS

- Primary and Secondary Spill Buckets are completely field replaceable without needing to break concrete.
- Shallow Bury Applications At only 21-3/4" deep with a 5-gallon capacity, this spill container is great for shallow bury applications.
- Dual Stainless Steel Construction
- Flat-Wall Entry Fitting Allows for numerous installation possibilities. Designed for 3" or 4" entry fittings, field installed to desired depth.
- Spill Bucket Cover Spacious hand-grip pocket provides easy access; new cover seal prevents water and debris from entering the bucket.
- 16" center-to-center spacing 1" per bucket offset from center on 15-1/8" cover allows for nearly 3" of concrete between 16" center of bucket.
- Built-In Flex Joint Constructed with premium Pellethane fitting to allow for ground shift while keeping secondary bucket in place in the ground.
- Monitoring Port Provides quick access to the secondary bucket for monitoring or testing.
- Stainless Steel Secondary Containment Isolates
 the spill bucket and riser from backfill, preventing a
 product spill from entering the soil in the event of a
 damaged primary unit.
- Powder Coated Galvanized Steel Skirt Isolates the spill bucket from backfill, allowing both primary and secondary to be field replaceable.

MATERIALS

Primary Spill Bucket: Stainless Steel
Secondary Spill Bucket: Stainless Steel
Entry Fitting: Pellethane
Compression Seal: Nitrile
Cover and Mounting Ring: Cast Iron, Powder Coated
All Other Seals: Nitrile
All Other Components: Stainless Steel
Skirt: Powder Coated Galvanized Steel

DIMENSIONS



| 200 | | |
|-----|-----------|-------|
| | inches | cm |
| A | 15-1/8" | 38.42 |
| В | 12-29/32" | 32.78 |
| С | 22-5/8" | 57.46 |
| D | 21-3/4" | 55.25 |
| E | 17" | 43.18 |
| F | 10-9/16" | 26.83 |
| G | 11-1/2" | 29.21 |
| Н | 12-1/4" | 31.12 |
| ı | 1.0" | 2.54 |
| | | |

ORDERING SPECIFICATIONS

| Part Number | Description |
|-------------|--------------------------------------|
| 7111SS-CSDW | 5 Gallon Double Wall Stainless Steel |
| | Spill Container |

Note: Consult OPW for continuous interstitial monitoring option.



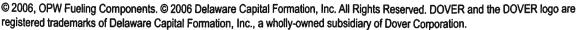
IMPORTANT: OPW/PISCES™ by OPW Inc. products must be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations, and compatibility with the environment and material to be handled. OPW/PISCES™ by OPW Inc. makes no warranty of fitness for a particular use. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation. For complete OPW warranty information visit our web site at www.opw-fc.com.



North America Toll Free - TELEPHONE: (800) 422-2525 ♦ Fax: (800) 421-3297 ♦ Email: domesticsales@opw-fc.com

www.opw-fc.com

P.O. Box 405003 ◆ Cincinnati, OH 45240-5003 ◆ Printed in USA



■ EMERGENCY SHUT-OFF AND VAPOR LINE SHEAR VALVES/CONNECTORS/ADAPTO

EMERGENCY SHUT-OFF VALVES VAPOR LINE SHEAR VALVES

OPW 10 Series Emergency Shut-Off Valves

OPW 10 Series Emergency Shut-Off Valves are installed on fuel supply lines beneath dispensers at grade-level to minimize hazards associated with collision or fire at the dispenser. If the dispenser is pulled over or dislodged by collision, the top of the valve breaks off at the integral shear groove, activating poppets and shutting off the flow of fuel. Single-Poppet models shut off supply flow, while Double-Poppet models shut off supply as well as prevent release of fuel from the dispenser's internal piping.

PA15 Offset Adaptor

理例

The OPW PA15 Offset Adaptor is designed for adjusting misalignment of pipe in dispenser sumps and suction stubs. The PA15 has a low profile feature, and is designed for maximum flow.

OPW 60V Series Vapor Line Shear Valves

OPW 60 Series Vapor Line Shear Valves are installed on vapor return lines beneath dispensers at grade-level to minimize hazards associated with collision or fire at the dispenser. If the dispenser is pulled over or dislodged by collision, the top of the valve breaks free at the integral shear groove to minimize damage to the dispenser piping. Poppeted models afford additional protection by preventing the release of vapors from the dispenser's internal piping and

OPW Stainless-Steel Flexible Connectors

Stainless Steel Flexible Connectors provide flexibility in the installation and operation of fuel piping systems. Flexible Connectors can be used as a convenient means of connecting piping to pumps and dispensers and throughout the piping systems where connections and changes of direction are necessary.

PISCES™ Sump Fire Suppression System

The FireStomper® Automatic Sump Fire Suppression System is designed to quickly and completely extinguish a fire inside a dispenser containment sump. The FireStomper® automatically discharges when the actuator temperature reaches 155° F (68° C), extinguishing a sump fire within seconds of ignition, and protecting the low-melt material piping in accordance with NFPA 30A





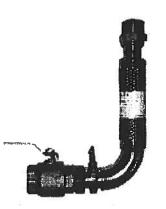


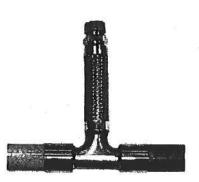
Facilitates Compliance of NFPA 30 & 30A

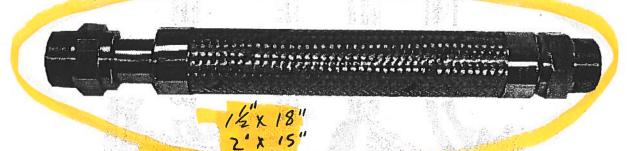
Flexible Ideas For Flexible Products

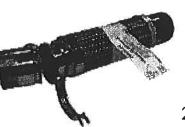
For The Petroleum, Hydraulic and Cryogenic Industries

FLEX-CONNECTOR SYSTEMS









800-333-3599 • Fax 800-765-4801 903-892-8983 Fax 903-893-9576

2828 Fallon Drive • Sherman, Texas 75090

e-mail: info@flex-ing.com www.flex-ing.com





SAFE-LITE™ FRC Manholes 30" 36" & 42"

Technical Information

Handle Covers

30" 36" 42" SAFE-LITE™ FRC Manholes



with Stainless Steel bolts

Bolt Down models Part No. Size (in,) **Assembly Parts** Lbs. 30 781-430-12 assm 95 cover 781-459-01 30 45 781-433-12 36 assm 125 781-456-01 36 cover 65 42 assm 781-443-12 157 42 cover 781-441-01 95

Non Bolted models



| Part No. | Size (in.) | Assembly Parts | Lbs |
|------------|------------|----------------|-----|
| 781-430-13 | 30 | assm | 95 |
| 781-490-01 | 30 | cover | 45 |
| 781-433-13 | 36 | assm | 125 |
| 781-448-01 | 36 | cover | 65 |
| 781-443-13 | 42 | assm | 157 |
| 781-445-01 | 42 | cover | 95 |

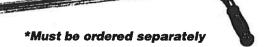
Slide Action Cover

30" 36" 42" SAFE-LITE™ FRC Manholes



Slide Action Models

| Part No. | Size (in.) | Assembly Parts | Lbs. |
|------------|------------|----------------|------|
| 781-484-12 | 30 | assm | 95 |
| 781-481-01 | 30 | cover - | 45 |
| 781-485-12 | 36 | assm | 125 |
| 781-482-01 | 36 | cover | 65 |
| 781-486-12 | 42 | assm | 157 |
| 781-483-01 | 42 | cover | 95 |



Slide Action Handle*

| Part No. | Lbs. |
|------------|------|
| 781-341-01 | 2.6 |



Sales Desk (800) 475-3291 • Sales Fax (800) 475-4329 • Phone (231) 755-1671

PEMCO

Vapor Recovery Products (page 1)



Extractor Vent Valve Assembly

The Extractor Vent Valve Assembly positions and allows for easy removal of float vent valves in underground storage tank vent lines. In addition to vapor recovery applications, the valve can also be used to manifold underground tank lines. The valve features a rust resistant epoxy coated cast iron body and standard 4" inlet and outlet, with a variety of side port sizes available. The Model 510 includes PEMCO Model 520 Extractor Fitting and the Model 510LC does not include PEMCO Model 520 Extractor Fitting.

Click here for drawing

| Model | Port Size | Height | Width | Weight (lbs.) |
|-----------|-----------|--------|--------|---------------|
| 510442 | 0"x2" | 8 3/8" | 6 1/4" | 17.0 |
| 5104422 | 2"x2" | 8 3/8" | 6 3/4" | 18.0 |
| 510443 | 0"x3" | 8 3/8" | 6 1/2" | 18.0 |
| 5104432 | 3"x2" | 8 3/8" | 7 1/8" | 18.0 |
| 5104433 | 3"x3" | 8 3/8" | 7 1/8" | 19.0 |
| 510442LC | 0"x2" | 8 3/8" | 6 1/4" | 15.0 |
| 5104422LC | 2"x2" | 8 3/8" | 6 ¾" | 16.0 |
| 510443LC | 0"x3" | 8 3/8" | 6 ½" | 16.0 |
| 5104432LC | 3"x2" | 8 3/8" | 7 1/8" | 16.0 |
| 5104433LC | 3"x3" | 8 3/8" | 7 1/8" | 17.0 |



Extractor Fitting

A fitting which is used to hold the Model 515 Float Vent Valve in the Model 510 Extractor Vent Valve Assembly. The fitting features a bronze body and plated steel pin.

| Model | Weight (lbs.) | |
|-------|---------------|--|
| 520 | 2.0 | |



Contact Us | Site Map

SEARCH >

Home Extranet Products Locate Distributor Locate Service FMSOnline Support Worldwide Company News & Events

ATG/TLS Monitoring Products

ATG/TLS Monitoring Consoles & Accessories

TLS-350R

TLS-350 Plus

TLS-350J

TLS-2

TLS-300C 1-2 Tank Configurable Console

TLS-300i 3-4 Tank
Configurable Console

EMC

Red Jacket ProMax

Red Jacket ProPlus

Inform

Wireless Tank Gauging

Tank Measurement

Sump Monitoring

Dispenser Pan Monitoring

Double Wall Tank Monitoring

Monitoring Wells

Monitoring & Installation Accessories

Product Line Monitoring

New Environmental Products

Red Jacket Products

Fuel Management Services

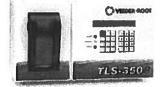
Petroleum Measurement

Product Brochures

TLS-350R

UST Monitoring Systems

Veeder-Root's TLS-350R Monitoring System adds value to automatic tank gauging with a highly advanced, automatic inventory management capability - Business Inventory Reconciliation. This fully integrated system automatically collects dispensing data, in-tank inventories and deliveries, and reconciles the totals at the end of each shift, day or period into a comprehensive reconciliation report to meet federal, state, and



local requirements. It also interfaces directly with electronic or mechanical dispensers to automatically access metered sales information. The TLS-350R is available with <u>CSLD</u> for 24-hour leak detection without tank shut down.

The TLS-350R uses AccuChart, Veeder-Root's patented tank calibration algorithm, to minimize errors due to dynamics, such as tank tilt, deflection and end shape, to create an optimal tank chart for each tank in the system. The automatic calibration process, which typically takes one month, is conducted through the typical operating levels in the tank as fuel is dispensed. Once enough valid data has been analyzed, the tank calibration is complete. An updated tank chart can be retrieved from the TLS-350R through an RS-232 interface using a computer.

Automatic Tank-To-Meter Mapping, which typically takes up to 2 days, eliminates the possibility that product being dispensed through the meter is reconciled against the wrong product. When dispensing begins, the TLS-350R recognizes a reduction in in-tank inventory and is alerted through a Dispenser Interface Module (DIM) that a specific meter is running. When the metered volume data equals an inventory reduction, the mapping feature matches that meter and tank.

The TLS-350R is available with an integral printer or can be interfaced with a remote printer. The system can be programmed to generate reports at the end of a shift, day, or period. Periodic reports are programmable to cover up to a 35-day cycle and can print in either column (summary) or row (line item) formats.

An adjusted delivery report makes sure you get what you pay for. When a bulk delivery is made, the TLS-350R measures the amount of any fuel dispensed during the delivery and the system provides a report showing the volume increase, the amount of fuel dispensed during the delivery, and the actua delivery amount.

The TLS-350R automatically calculates periodic variance thresholds based on the U.S. E.P.A. requirement of +/- (1% of monthly throughput +130 gallons) and includes them on the Periodic Reconciliation Report. The variance threshold is programmable so it can be set to local regulations if necessary.

Features

- Automatic Business Inventory Reconciliation
- AccuChartTM Automatic Tank Calibration
- Automatic Tank-To-Meter Mapping
- 0.1 GPH and 0.2 GPH In-Tank Leak Detection with Magnetostrictive Probes
- Electronic Line Leak Detection Capabilities
- Inventory Monitoring and Reporting
- Interstitial/Sump Leak Sensing Capabilities
- Vapor Well Monitoring Capability
- Groundwater Monitoring Capability
- Input/Output Capability
- Sump and Dispenser Monitoring Capabiliteis

- RS-232 Data Communications
- Internal Modem
- Auto-Dial Fax (SiteFax)
- Optional Integral Printer or Remote Printer Interface
- Emergency generator applications selectable via programming
- One system handles mix of standard and emergency generator tanks
- Records generator activity
- Complete inventory reports before and after generator operation
- Audible and Visual Alarm Capabilities
- Monitors up to 12 tanks
- Maximum Tank Capacity: 15,000 Gallons; 37,000 gallons with CSLD software enhancement
- Leak Testing and Reconciliation for Manifolded Tanks

Standard Models

Console Form Number: 848290-102

Description: TLS-350R Console without Integral Printer

Console Form Number: 848290-122

Description: TLS-350R Console with Integral Printer

Console Form Number: 330532-001

Description: Memory Expansion Module (required to support BIR for manifolded tanks only)

TLS-350R Interface Modules

The TLS-350R monitoring console contains three compartments in which individual interface modules can be installed. Interface modules may be factory-installed in the console upon initial ordering, or ordered separately as spare modules to expand an existing system.

Low-Power Compartment (Limit eight per console, unless otherwise noted.)

| Form No. Factory Installed Modules | Description | Feature Compatibility |
|---|---|--|
| 329356-002 | Four-Input Probe Interface Module (Maximum three per console. Includes terminal connector for one ground temperature thermistor for the volumetric line leak detector). | Series 8463 Mag Plus Probe |
| 329358-001 | Eight-Input Interstitial/Liquid Sensor | Series 7943 Interstitial Sensor for Fiberglass Tanks and Interstitial Sensor for Steel Tanks Series 7943 Piping Sump Sensor Series 7943 Hydrostatic Sensor |
| 329357-001 | Five-Input Vapor Sensor Interface Module | Series 7943 Vapor Sensor |
| 329399-001 | Five-Input Groundwater Sensor Module | 4SITE Series 7943 Groundwater Sensor |
| 329956-001 | Eight-Input Type A Sensor Interface Module | 4SITE Series 7943 Solid State Discriminating Interstitial Sensor |
| 329950-001 | Six-Input Type B Sensor Interface Module | 4SITE Series 7943 Solid State Dispenser Pan and Containment Sensors |
| 330373-001 | Six-Input Pressurized Line Leak Interface Module (One per console) | Series 8484 Pressurized Line Leak Detection System Requires TLS- 350 Plus Version 7.0 or higher software |
| 329356-004 | 8 Input Smart Sensor Module | Requires Software 24.0 or higher software |

High-Power Compartment (Limit eight per console, unless otherwise noted)

| Form No. Factory Installed Module | | Feature Compatibility |
|-----------------------------------|--|---|
| 329356-004 | 8 Input smart Sensor Module | Requires ELS350 Version 24.0 or higher software |
| 329359-001 | Four-Relay Output Interface Module | |
| 329360-001 | Two-Input/Two-Relay Output Interface Module | |

Position Sensitive Pan/Sump Sensor

Quickly detects the presence of liquid and keeps you in compliance.

Provides positive alarm indication of any liquid in underground fuel storage tank sumps or pans. Provides positive alarm indication if the sensor is moved from its installed position on the bottom of the sump.

Veeder-Root's Position Sensitive Pan/Sump Sensor detects the presence of liquid in a UST piping sump or dispenser pan while simultaneously detecting sensor position. Liquid presence could mean a dangerous line leak. When the sensor detects liquid, it sends an alarm signal to the TLS console monitor, where both visual and audible built-in alarm indicators immediately identify the location of the problem. You can then quickly take action to help prevent serious safety and environmental problems. Additionally the sensor utilizes a position sensor to detect when it has been moved. A "sensor out" alarm is issued when the sensor is moved from its installed position at the bottom of the sump or pan. This enables the user to quickly and accurately reposition the sensor to ensure accurate and consistent leak detection and compliance.



Integral position sensor ensures proper placement is maintained.



Features

- Positive alarm indication of any liquid in underground fuel storage tank piping sumps/pans
- Provides a "sensor out" indication if the sensor is moved from contact with bottom of the sump
- A direct replacement for an existing Piping Sump Sensor (794380-208)
- For TLS-350R, TLS-350, TLS-350J, ILS-350, TLS-300i, Red Jacket ProMax/ ProPlus, UST Monitoring Systems
- System indicators pinpoint alarm location
- Simple to install
- · Two-wire connection to system monitor

Standard Models

| Form Number | Description |
|-------------|---|
| 794380-323 | Position Sensitive Pan/Sump Sensor- 12 ft cable |
| 331102-001 | Optional component: 20' replacement cable |
| 330020-012 | Optional component: Universal sensor mounting kit |

Standard Components

| | • |
|----------|--------------------------|
| Quantity | Description |
| 1 | Pan/Sump sensor assembly |
| 1 | Watertight cord grip |
| 2 | Wire nuts |
| 1 | Epoxy pack |

The Series 7943 Position Sensitive Pan/Sump Sensor is compatible with the following consoles:

| Console | Series |
|-----------|--------|
| TLS-350R* | 8482 |
| TLS-350* | 8470 |
| TLS-350J | 8470 |
| ILS-350** | 8450 |
| TLS-300i | 8485 |
| TLS-300C* | 8485 |

Standard Specifications

Power Requirements: Intrinsically safe power supplied by Veeder-Root TLS-350R, TLS-350, TLS-350J, ILS-350, TLS-300i, TLS-300C, TLS-250i, or ILS-250 system

Alarm Height: 1 1/2 inch of liquid

Temperature Rating:

Storage: -40 degrees C to

+ 70 degrees C

Operating: -0 degrees to

+60 degrees C

*Note: an Interstitial Sensor Interface Module is required for use of the piping sump sensor with the TLS-350 or TLS-350R system.

**Note: a Two-Wire Module is required for use of the piping sump sensor with the ILS-350 system.



Ease of installation and proper positioning protects your investment.

Sensor Detection Capabilities - Alarm Conditions

Fuel alarm is triggered when liquid reaches a nominal height of 1-1/2 inches. Sensor Out alarm is triggered when sensor is moved off bottom of the pan/sump.

Operating Capabilities

- Operating temperature range: 0 to +60°C.
- Storage temperature range: -40 to +70°C.
- · Sensor dimensions: 12" high, 2.2" diameter.

Sensor/Cable Length Configurations

- Position-Sensitive Sensor w/ 12 foot cable Form Number 794380-323
- 20' replacement cable with connector Part Number 331102-001

Sensor Interface Module

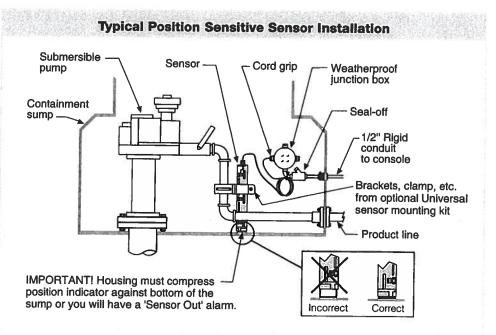
- TLS-350 Series Consoles (except TLS-350J) Interstitial Sensor Interface Module (Form Number 847490-102) accepts up to 8 sensors (a maximum of 64 sensors could be monitored by the console).
- TLS-350J Console 3 sensors max.
- TLS-300/PC-300 Series Consoles (no Interface Module required) 8 sensors max.
- ILS-350 Console A Two-Wire Module (Form Number 845190-100) accepts up to 4 sensors (a maximum of 16 sensors could be monitored by the console).

Console Software Compatibility

- All TLS-350 Series/TLS-300 Consoles
- All ILS-350 Consoles

Compatible Fuels

- · Unleaded gasoline
- · Leaded gasoline
- Diesel
- Kerosene
- Jet fuel
- · Aviation gasoline
- 5% methanol/95% unleaded
- · 15% ethanol/85% unleaded
- 15% MTBE/85% unleaded



For more information call 1-888-561-7942





Contact Us | Site Map

SEARCH

Home Extranet Products Locate Distributor Locate Service FMSOnline Support Worldwide Company News & Events

ATG/TLS Monitoring Products

ATG/TLS Monitoring Consoles & Accessories

Wireless Tank Gauging

Tank Measurement

Sump Monitoring

Dispenser Pan Monitoring

Double Wall Tank Monitoring

Interstitial Sensor for Steel Tanks

Interstitial Sensor for Fiberglass Tanks

Solid State Discriminating Interstitial Sensor

Hydrostatic Sensor

Micro Sensor

Monitoring Wells

Monitoring & Installation Accessories

Product Line Monitoring

New Environmental Products

Red Jacket Products

Fuel Management Services

Petroleum Measurement

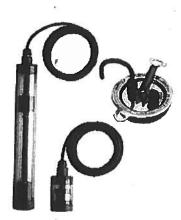
Product Brochures

Hydrostatic Sensor

For use with TLS and ILS Systems

Veeder-Root's Hydrostatic Reservoir Sensor accurately detects fluid level change in the reservoir and interstice of a double-wall storage tank. Dual-float and single-float technology models are ideal for locations with high or low water tables.

Available in a dual-float or single-float configuration. The Dual-Float Hydrostatic Sensor is ideal for high groundwater areas, and can differentiate between a high level alarm condition and a low level alarm condition. If an inner-wall leak occurs, the brine solution seeps into the tank lowering the brine level in the reservoir. The Dual-Float Sensor will then trigger a low level alarm. If an outer-wall leak occurs, the groundwater seeps into the reservoir. The dual-float sensor will then triggers a high level alarm.



The Single-float sensor is ideal for low groundwater areas, since it only detects low level alarm conditions. If an inner wall leak occurs, the brine solution seeps into the tank. If an outer-wall leak occurs, the brine solution leaks out of the tank. In both cases, the brine level decreases and the Single-Float Sensor triggers a low level alarm.

This product is designed to meet California's requirement for secondary space monitoring for tanks as required by AB 2481.

Features

Dual-float sensor alarm conditions:

- Leak in inner wall triggers a low level alarm
- Leak in outer wall triggers a high level alarm in high groundwater areas; low level alarm in low groundwater areas

Single-float sensor alarm conditions:

Leak in inner or outer wall triggers a low level alarm in low groundwater areas

Temperature Rating

Storage: -40 degrees C to + 70 degrees C **Operating:** -25 degrees C to +40 degrees C

Rests in salt brine solution of up to 30% calcium chloride

Cable length: 12 feet Single-Float Sensor Dimensions: 6.0" high, 2.5" diameter

Dual-Float Sensor Dimensions: 19.3" high, 2.5" diameter

- Withstands removal from reservoir several times a year without sensor damage
- Clear plastic housing for visual inspection or float operation

Standard Models

| Form No. | Description | | |
|------------|---|---|--|
| 794380-301 | Single-Float Hydrostatic Reservoir Sensor | * | |
| 794380-303 | Dual-Float Hydrostatic Reservoir Sensor | | |

Hydrostatic Reservoir Sensor Console Capability

The Series 7943 Hydrostatic Reservoir Sensor is comparable with the following consoles:

| Çonsole | Series | |
|-----------|--------|--|
| TLS-350R* | 8482 | |
| TLS-350* | 8470 | |
| TLS-350J | 8470 | |
| TLS-300i | 8485 | |
| TLS-300C | 8485 | |
| TLS-250i | 7941 | |

^{*}Note: An Interstitial Sensor Interface Module is required for the use of the Hydrostatic Sensors with the TLS-350 Console.

- Related Links and Documents

» Liquid-Phase Product Detectors - Results of U.S. E.P.A. Standard Evaluations (576013-917 Rev. B) (PDF)

Products: 847990-001, 847990-002

- » Point Sensor Liquid Contact Product Detectors Certification Reports Results of U.S. E.P.A. Standard Evaluations (576013-864 Rev G) (PDF) Products: TLS-350, TLS-300, TLS-300i, ILS-350, EMC, EMC BASIC, ProMax, ProPlus, Simplicity
- Sensor Products Application Guide (577013-750 Rev K) (PDF)
- » MicroSensor Installation Guide (576013-285 Rev D) (PDF)
- » Oil/Water Separator Sensor Installation Manual (577013-737 Rev B) (PDF)
- » High/Low Level Sensor for Guardian Systems Installation Guide (576013-309 Rev C) (PDF)
- » Hydrostatic Reservoir Sensors for Double-Wall Fiberglass Tanks Installation Guide (576013-795 Rev E) (PDF)
- » Universal Mounting Kit Installation (576013-827 Rev B) (PDF)

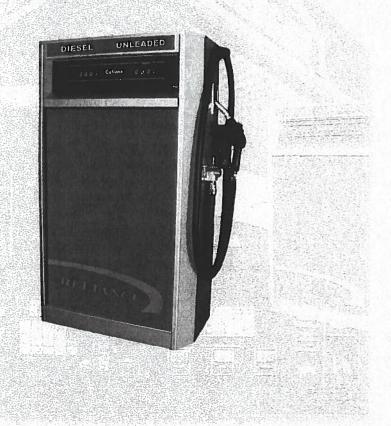
Contact Us | Danaher Corp | Gilbarco | Gasboy | Privacy | Legal | Site Map

Copyright © 2006 The Veeder-Root Company All rights reserved. Unauthorized duplication prohibited.



Reliance M Series Fleet Pumps & Dispensers

A Reliable Solution for Fleet Fueling





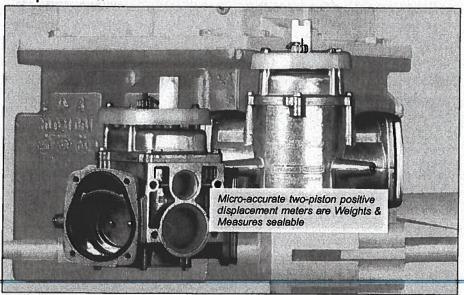


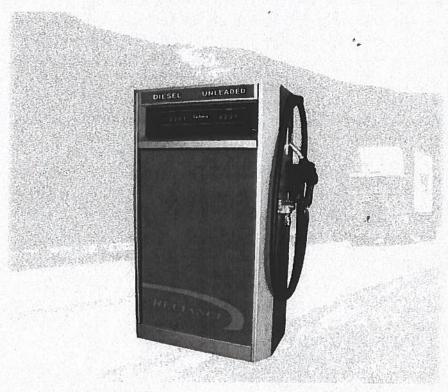
Overview

The Wayne Reliance G6200 Series incorporates reliable, time-proven mechanical registers into an attractive modern cabinet. The durable construction and electromechanical operation of this series enables it to withstand the harshest fleet environments. Single AC power line requirements make it easy to retrofit to any installation. The G6200 Series includes a host of standard features to ensure high performance and long life.

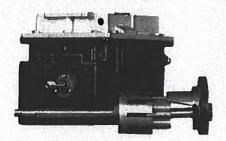


- Field-proven components ensure dependable operation
 - Reliable mechanical registers require low maintenance
 - Gear-type pumping units (suction models) withstand years of hard use
- Heavy gauge galvannealed steel external panels with powder-coated finish provide superior weather and corrosion resistance
- Heavy-duty one HP motors (suction models) and one-inch internal piping deliver maximum flow performance
- · Convenient hinged doors provide easy service access
- · Single AC power line feed simplifies retrofitting existing installations
- · Internal filters help ensure product purity
- All user controls meet American Disabilities Act (ADA) requirements





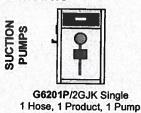
Accuracy and reliability are the foundation of the compact pumping unit



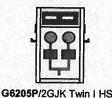
Optional Features

- Pulsers allow connection to all popular fuel control systems
- Stainless steel panels provide maximum corrosion protection for harsh environments
- Internal hose retractor and hose mast options help keep hoses out of the fueling lane
- Lights enhance register viewing for evening and night operation

G6200 Models







2 Hoses, 1 Product, 2 Pumps

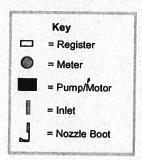


G6203P/2GJK Twin II 2 Hoses, 2 Products, 2 Pumps









Model Number Format: Base Model / Suffix 1 Options / Suffix 2 Options (e.g. G6201P / 2GJK / A)

All models include the following options as standard: 1" piping [2], internal filter [G], AC j-box [J], and hose hanger [K]. Option suffixes are noted with the options below in []. A "//" (e.g. [//A]) indicates a suffix 2 option.

G6200 Specifications

Performance: Up to 22 GPM (83 lpm) per hose (exception: Twin I suction is 22 GPM per one hose operating, or 12 GPM (45 lpm) per hose with both operating).

Note: Specified rates are maximum test rates. Actual flow rates will depend upon the installation conditions, dispenser accessories, and for remote dispensers, size of the submersible pump.

Register: Non-computer mechanical register with power reset with interlock. Displays on both sides of cabinet. Maximum 999.9 gallons.

Totalizer: Non-resettable totalizer up to 9999999.9. Displays on front dial face.

Meter: Reliable, micro-accurate 2-piston positive displacement design. Weights & Measures sealable.

Pumping Unit*: Positive displacement, self-priming, gear-type pumping unit with integral centrifugal air separator and adjustable bypass valve. Suction strainers at inlet connection.

Motor*: 1-HP continuous duty with thermal overload protection. Adjustable V-link belt connects to pump pulley.

Electrical: 115VAC, 60Hz operation. Motors – 115/230VAC 50/60Hz.

Internal Filter [G]: Adapter with tenmicron filter helps ensure product purity.

Inlet Connection: 11/2" (3.8 cm).

Discharge: 1" (2.5 cm) with 3/4" reducing bushing.

Solenoid Valve: 1" (2.5 cm) two-stage valve. Standard on remote dispensers and Twin I suction. Also provides slow flow control for fuel control systems.

Satellite Connection: Discharge assembly includes internal port for satellite piping connection on remote dispensers.

Cabinet Finish: Extremely durable powder-coated finish gives outstanding appearance and toughness. Sides, top, bezel, and base painted silver. Doors painted blue (optional black, green, red, silver, or white). Black register face.

Cabinet Construction: All panels are fabricated from heavy gauge galvannealed steel. 14-gauge side panels and 18-gauge doors. Top of bezel provides space for product id decals (specify w/ order).

Nozzle Boot and Hook: Fits standard U.L. interchangeable automatic nozzles. Hook may be adjusted for an OPW 11-VF long spout balanced vapor recovery nozzle.

Hose Hanger [K]: Keeps hose off the island when not in use.

Actual Dimensions:

32.25" W x 19.38" D x 54.38" H (81.9cm W x 49.2cm D x 138.1cm H)

Approvals: C-UL-US Listed. Sealable by U.S. Weights & Measures for the resale of fuel with contracted periodic billing of the fuel dispensed.

Options

Pulsers: Transmit electrical pulses for each register revolution for connection to fuel control systems. 10:1 [7A] and 100:1 [7B] ratio options available.

Light [//A]: Illuminates register faces and backlights the translucent product id panels that are included with the light option. One bulb per side.

External Filter Kits*: Make filter visible as maintenance reminder (p/n 889921-001).

Stainless Steel Panels: Ideal for very corrosive environments. All exterior panels [//S] or all panels except painted galvanneal doors [//S1].

Liter Measure [8]: Computes in liters.

Electrical Options: 230VAC 50/60 Hz. operation [Z]. For light option @ 50 Hz, also add [//C]. For 380VAC 50/60Hz motor, also add [//G].

Other Options: Internal hose retractor [//H], hose mast kit* [//J], manual reset [M], hand crank kit* [3], reversed accumulative totalizer [//F], inlet check valve kit* [//M], & solenoid valves [//W1] on suction models.

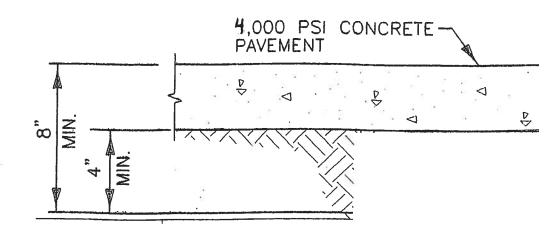
*Note: Applies to suction models only

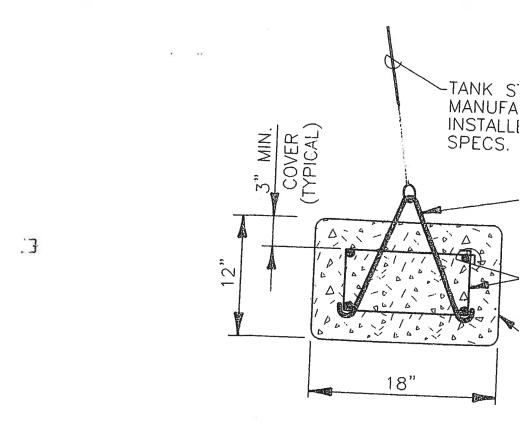
*Note: Kits require field assembly

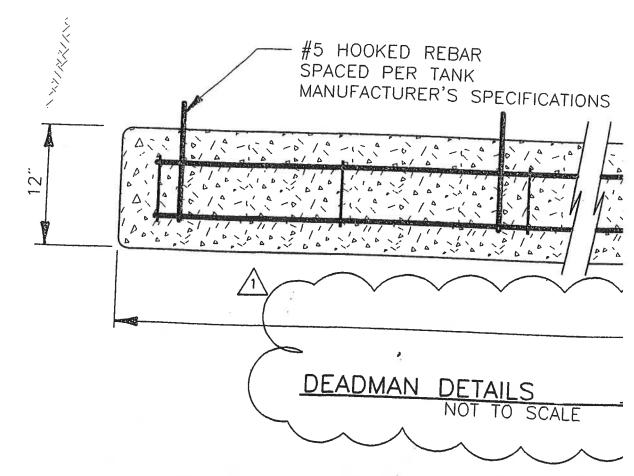
a § GRADE CROSSING

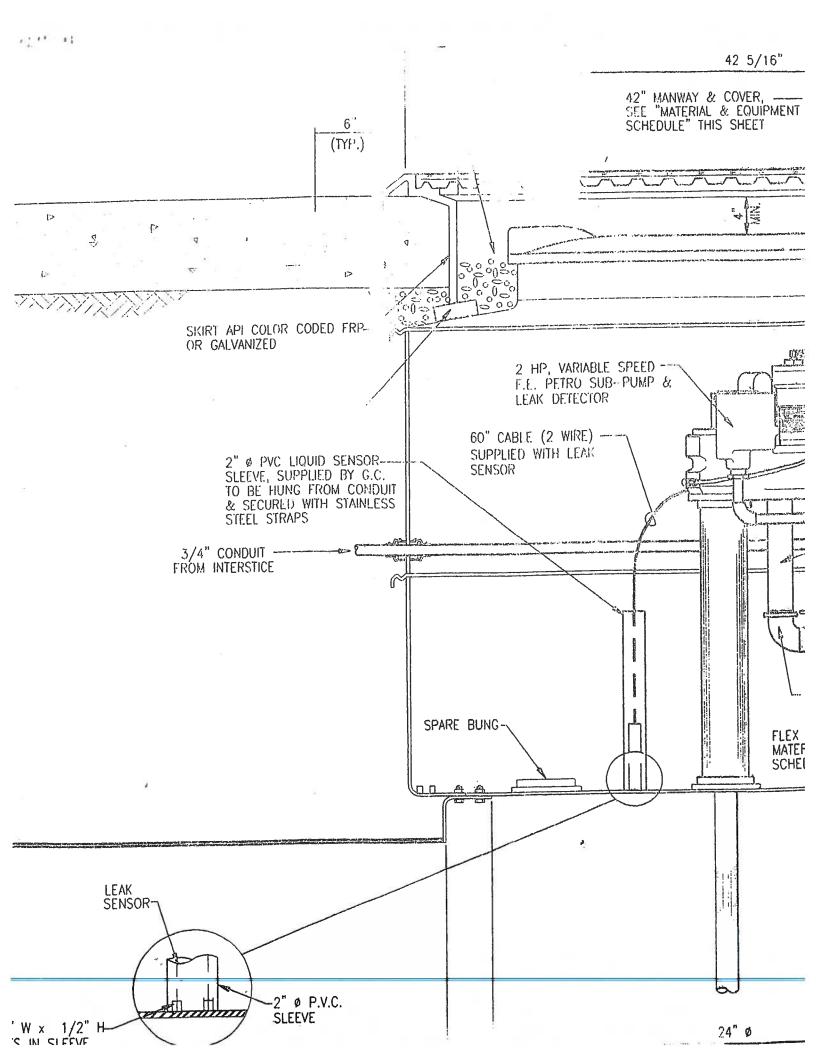
STYPICAL ?

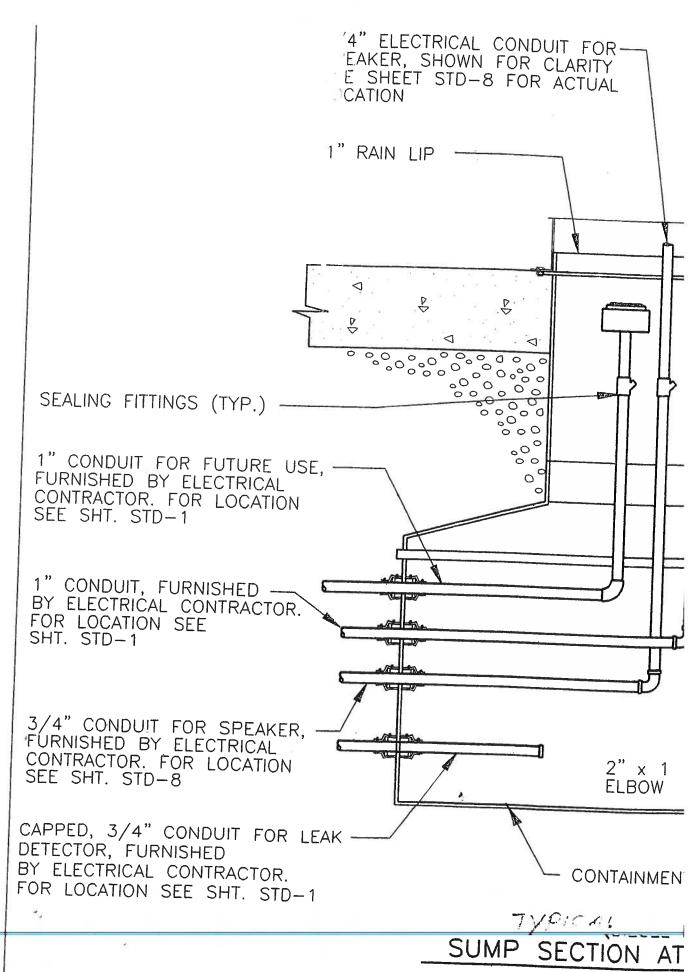
CROSS-SECTION THRU UNDER



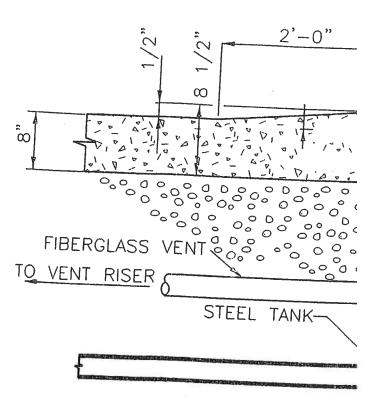








W/ CAST IRON COVER AND



* FOR EXACT SEE CHART

