

AILE®

• Gas station fitting series

SHANGHAI
AILE PETROLEUM
EQUIPMENT
MFG.CO.,LTD.

Underground Storage Tank Equipment



AILE FYRQ-H Double Wall Spill Containment

► AILE FYRQ-H Double Wall Spill Containment spilled product from entering the soil. The FYRQ-H threads directly on a 4" riser pipe and accommodates tank fittings as close as 18" center to center. Both primary and secondary bellows are made of polyethylene to allow for tank movement as well as concrete pad settling. Compact design allows for new site as well as retrofit installations. Drain valve opens downward into the tank, maximizing sealing during tank testing. Drainage channels in the rim keep surface water out. This heavy-duty ductile iron rim is built to handle the abuse of snow plows. The lid incorporates the exclusive triple wiper seal and built-in side handle which allows for easy, one-hand opening, and meets AASHTO H20 wheel loading.

► Materials:

Cover: Cast Iron
Mounting ring: Cast Iron
Bellows: Polyethylene
Base: Compound Fibre
Clamps: Stainless Steel
Seals: Buna-N

► Package:

Net Weight: 28kg/pc
Gross Weight: 30kg/pc
 48x48x50cm³/case of 1pc

► AILE® FYRQ-H



► Features & Benefits:

- ◆ Non-corrosive gravel guard.
- ◆ Handles serve as anchoring devices in the concrete to prevent movement of the manhole after installation; also aid in carrying container.
- ◆ Easily repair or replace primary and secondary containment from grade without breaking concrete.
- ◆ **Easy Installation** - Reduces job-site time and installation costs. Thread-On Spill Containment screw directly onto 4" NPT or BSP risers. No external connections to make; adjust the final grade height and support the unit with backfill.
- ◆ **Integral Pull-to-Open Drain Valve** - Allows high-speed drainage of excess product into the tank. Designed with a conventional self-cleaning seal and removable screen for easier component cleaning.
- ◆ **Capacity** - Available in a true 5 gallon capacity.
- ◆ **Rain-Shedding Cover** - Available in cast iron, this unique design incorporates a seal in the underside of the cover. The seal seats between 2 dams on the mounting ring to prevent surface water from entering the spill container.
- ◆ **Fuel Compatibility** - Designed to accommodate the fuels of the future, including methanol, ethanol and fuels with MTBE additives.
- ◆ **Heavy-Duty Mounting Ring** - The angled ramp design offers superior protection against snow and conductive. A rugged optional cast iron base is also available.

► Ordering Specifications:

Product#	Connection Threads	Material of Cover
FYRQ-H-801	NPT4"	Cast Iron
FYRQ-H-802	BSPT4"	Cast Iron



FYRQ-01 5GL Thread-On Spill Container

► AILE Spill containment Manhole is designed to prevent spilled product from entering the soil near the fill and vapor return riser connections on underground storage tanks during normal tank filling operation, or in the event of tank overfill. The spill containment catches spillage to help prevent soil contamination and ground water pollution. AILE Thread-On Spill Containment Manhole is generally used on new tank or riser pipe installations.

► Materials:

Cover: Cast Iron/Aluminum
Mounting ring: Cast Iron
Bellows: Polyethylene
Base: Compound Fibre
Clamps: Stainless Steel
Seals: Buna-N

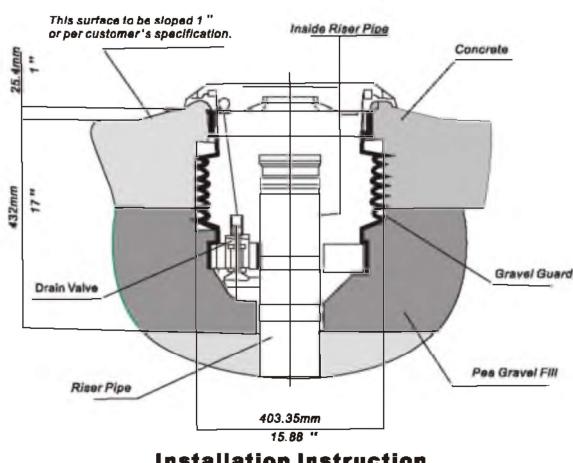
► Package:

Net Weight: 25.35kg/pc
Gross Weight: 28kg/pc
42x42x48cm³/case of 1pc

► Ordering Specifications:

Product#	Connection Threads	Material of Cover
FYRQ-01-801	NPT4"	Cast Iron
FYRQ-01-802	NPT4"	Aluminum
FYRQ-01-803	BSPT4"	Cast Iron
FYRQ-01-804	BSPT4"	Aluminum

► AILE® FYRQ-01



► Features & Benefits:

- ◆ **Easy installation** - Reduces job-site time and installation costs. Thread-On Spill Containment screw directly onto 4" NPT or BSP risers. No external connections to make; adjust the final grade height and support the unit with backfill.
- ◆ **Integral Pull-to-Open Drain Valve** - Allows high-speed drainage of excess product into the tank. Designed with a conventional self-cleaning seal and removable screen for easier component cleaning.
- ◆ **Capacity** - Available in a true 5 gallon capacity.
- ◆ **Rain-Shedding Cover** - Available in cast iron, this unique design incorporates a seal in the underside of the cover. The seal seats between 2 dams on the mounting ring to prevent surface water from entering the spill container.
- ◆ **Fuel Compatibility** - Designed to accommodate the fuels of the future, including methanol, ethanol and fuels with MTBE additives.
- ◆ **Heavy-Duty Mounting Ring** - The angled ramp design offers superior protection against snow and conductive. A rugged optional cast iron base is also available.



FYRQ-E1 5GL Grade Level Spill Container

► AILE ' S FYRQ-E1 Spill Containers are designed to collect spilled product That occurs during normal tank filling on underground storage tanks. 5Gallon Spill Containment Manhole comes equipped with a Fiber Reinforced Composite snap-on cover for easy access. The durable and flexible polyethylene shell gives with natural tank movements. It's equipped with a cast iron deflector ring to protect from heavy traffic and truck plows. The cast iron base easily threads onto the tank riser. Also featured is a pull to push drain to release contained product into the underground storage tank.

► Materials:

Cover: PA 66 nylon/Cast Iron

Mounting ring: Cast Iron

Bellows: Polyethylene

Base: Cast Iron

Seals: Buna-N

► Package:

Net Weight: 29.5kg/pc

Gross Weight: 31.85kg/pc

46x45x40.5cm³/case of 1pc

► Ordering Specifications:

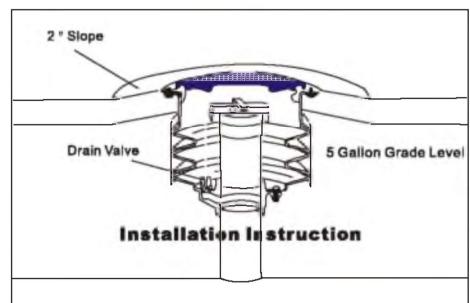
Product#	Connection Threads	Material of Cover
FYRQ-E1-801	NPT4"	PA 66 nylon
FYRQ-E1-803	BSPT4"	PA 66 nylon

► AILE® FYRQ-E1



► Features & Benefits:

- ◆ **Solid Construction** - The durable and flexible polyethylene shell is designed to move with natural ground movements. The shell is equipped with a gravel guard to prevent backfill material from filling in around the movable shell, eliminating problems with ground movement.
- ◆ **Cast Iron base**-AILE' s base design is the most reliable in the industry. The polyethylene shell is bolted between the cast iron base, a durable cork gasket and special backer plates ensuring a long lasting, watertight seal. Both bases easily thread onto a 4" tank riser.
- ◆ **Heavy Duty Cast Iron Deflector Ring** - The cast iron ring provides protection from heavy traffic and truck plows .It's unique design allows for water to run away from the spill container top, eliminating water collection in the bucket. The cast iron ring is mounted to the bucket by bolting the spill bucket between the cast iron ring and specially designed backer plates. This helps eliminate the chance of damage due to excessive movements.
- ◆ **Drain Valve** - A specially designed drain valve allows emptying of contained product back to the storage tank without messy plugs or pumps. By pulling the key ring located towards the top of the spill container, the valve pushes open to allow product to drain. The drain is equipped with a screen for convenient cleaning.
- ◆ **Many Cover Options** - AILE' s colored composite covers help prevent cross contamination and eliminate the need to constantly paint, by molding the permanent color into the cover. All spill containers are available with a black, red, yellow, blue cover. Cast iron covers are also available for most rain tight models.



DKG-MWM Monitoring Well ManholesII

- These manholes are equipped with strong cast iron bolt-down lids to provide a "limited access", watertight seal to prevent driveway contamination from entering manhole, and a heavy duty cast iron rim for street traffic. A distinctive triangle design and words, "Do Not Fill-Test Well" are cast into the cover to meet API specifications.

Materials:

Body ring: Cast Iron
Cover: Cast Iron
Skirt: Steel (104 AOW/MW)
Gasket: Buna-N

Ordering Specifications:

Product#	Dia(in/mm)	Skirt Depth(in/mm)	Lbs/Kg
DKG-MWM-8	8"/203	13"/330	18/8
DKG-MWM-10	10"/254	12"/305	25/11

Features & Benefits:

- Painted ductile iron lid and rim.
- Heavy-duty, 100% welded skirts available.
- Bolt-down units have water-tight lids.
- Stainless steel bolts.
- Secure Cover - Two recessed, self-aligning stainless steel bolts with O-rings secure cover to the body ring.
- Prevention Against Surface Water Contamination** - A gasket located in the ring prevents contamination from rain water or during washdown.
- Maximum Load Bearing Capacity** - Cast iron covers and body rings are heavily ribbed to ensure maximum load bearing capacity.
- Trouble-Free Installation** - Sturdy steel skirts extend nearly a foot below grade to ensure trouble-free installation even in deep concrete.
- Full-Size Internal Diameters for Maximum Access and Working Area.
- Highway 20 Rated (H20)** - All AILE spill containers and manholes exceed the requirements of the Highway 20 rating.
- Individually Boxed for Ease of Handling.
- Galvanized Steel Skirt and Three Recessed Stainless Steel Bolts.

AILE® DKG-MWM



DKG-AM16 Composite Manhole

- The AILE DKG-AM16 Composite Manhole is a new design in lightweight, slip-resistant composite manhole covers. Using the latest manufacturing technology to ensure porosity-free molding, and compact, homogeneous distribution of reinforcing fiber, these covers easily exceed H20 wheel loading requirements. The covers also utilize a UV resistant treatment to protect against sun and weather damage.

Materials:

Body ring: PE
Cover: Compound Fibre

Ordering Specifications:

Product#	Dia(in/mm)	Skirt (in/mm)
DKG-AM16	16"/406	18"/456

Features & Benefits:

- Exceeds AASHTO H20 wheel loading
- Reduces lid weight by 50% compared to traditional steel lids
- Durable composite construction of fiberglass and polyester resin
- Slip-resistant tread pattern tested in marine applications
- Available in lay-in and bolt-down, water-resistant styles
- Easy lid removal and replacement

AILE® DKG-AM16



LJQ-O1 Tight Fill Pipe Adaptor

► Tight-Fill Adaptor is installed in spill containment manhole on the fill riser pipe from an underground fuel storage tank. They mate with the gravity, drop delivery elbow on the transport truck.

► **Package:**

Net Weight: 1.125kg/pc

Gross Weight: 1.17kg/pc

40.5x27x15.3cm³/case of 12pc► **Ordering Specifications:**

Product No	Elbow Size	Riser Thread	Kg	Material
LJQ-O1	4"	BSP/NPT4"	1.0	Bronze

► **Features & Benefits:**

- ◆ Easy Installation - Integral internal wrenching lugs are provided for installing in the confined space of spill containers.
- ◆ Manufactured from durable, Corrosion-Resistant material -Bronze.

LJQ-E1 Side Seal Fill Pipe Adaptor

► AILE 's side seal fill pipe adaptors are installed on the fill riser pipe in spili containment manholes on an underground storage tank.The adaptors are used to connect delivery drop elbow to the fill pipe for fuel deliveries. AILE 's side seal adaptors fits all 4" side seal drop elbow and side seal adaptor.

► **Package:**

Net Weight: 0.75kg/pc

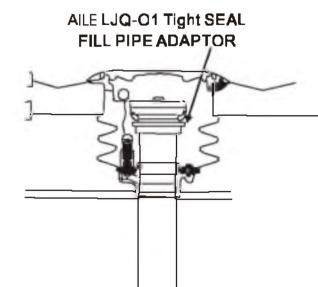
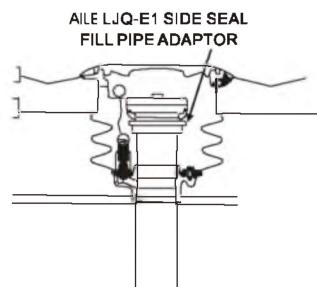
Gross Weight: 0.79kg/pc

40.5x27x15.3cm³/case of 12pc► **Ordering Specifications:**

Product#	Connection	Threads	Kg
LJQ-E1-801	NPT/BSP 3	4.00	1.00
LJQ-E1-802	NPT/BSP 4"	4.00	

► **Features & Benefits:**

- ◆ Corrosion resistant bronze
- ◆ Nitrile gasket provides a secure seal onto the fill riser pipe

► **AILE® LJQ-O1**► **AILE® LJQ-E1**

DG-O1 Tight Seal Fill Cap

- ▶ Tight-Fill Top-Seal Caps are installed on top seal adaptor, when not in use, to prevent gasoline vapors from escaping and to prevent water, dust, and debris from entering tank. The DG-O1 is designed to mate with 4" LJQ-O1 Top-Seal Adaptors. Heavy duty and corrosion resistant, the body is made of PA66 to help eliminate rust and oxidation for a long maintenance-free life. The toggle lever distributes downward pressure to compress its Buna-N gasket evenly, assuring a positive, water and vapor-tight seal. The DG-O1 can be locked with a padlock or wire seal.

▶ Materials:

Cap& Link: Pa66
Pins: Stainless Steel
Gasket: Buna-N
Color: Black

▶ Package:

Net Weight: 0.5kg/pc
Gross Weight: 0.57kg/pc
48x48x32cm³/case of 30pc

▶ Features & Benefits:

- ◆ Stainless steel poppet, shaft, and latch plate
- ◆ Aluminum bronze cam
- ◆ Bronze handle
- ◆ Fluorocarbon & Buna-N seals
- ◆ TTMA Standard

▶ AILE[®] DG-O1 Tight Seal Fill Cap



DG-E1 Side Seal Fill Cap

- ▶ AILE 's side seal fill cap are used to prevent vapors from escaping from the fill riser pipe on the underground storage tank when it is not being filled. The easy to operate "T" handle provides a convenient method of removal and replacement. Simply pull to remove and push to replace.

▶ Package:

Net Weight: 0.53 kg/pc
Gross Weight: 0.6 kg/pc
48x48x32 cm³/Case of 30pc

▶ Features & Benefits:

- ◆ Padlock capability for positive locking
- ◆ Stainless steel latches
- ◆ Cap body-corrosion resistant PA66
- ◆ Copper infiltrated cams



▶ AILE[®] DG-E1 Side Seal Fill Cap



TZA-K Probe Installation kit

- AILE 'S TZA-K Probe Installation Kit is used to install liquid level probes in underground tank application. It is designed to allow the probe to be suspended in a 4 inch riser pipe. This method of installation guarantees that the probe can provide accurate level information and that the tank is sealed in accordance with regulatory requirements. It also provides excellent protection for the probe. The TZA-K installation kit makes it easy to install liquid level probes properly and safely.

The TZA-K installation kit actually suspends the level sensor from the top of the riser. The kit is designed so that the probe and cable do not twist during installation and so the cable is sealed and strain relieved. It also allows easy access to the probe for inspection if required. The TZA-K installation kit allows you to install level probes in almost any underground tank. It works equally well in fiberglass and steel tanks, and can be adjusted to accommodate tanks buried at almost any depth.

► Package:

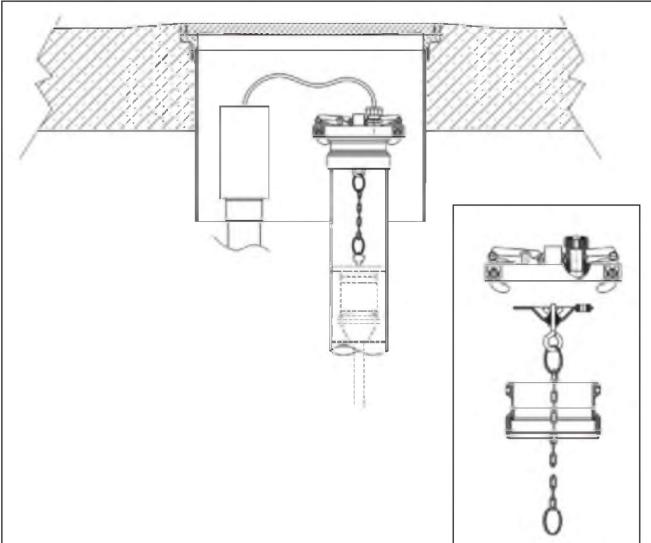
Net Weight: 1.12 kg/pc
Gross Weight: 1.6 kg/pc
40x47.5x51cm³/Case of 24pc

► Ordering Specifications:

product#	Connections Threads
TZA-K-801	NPT4"
TZA-K-802	BSPT4"

- **Features :**
Cover: PA 66 nylon
Adaptor: PA 66 nylon
Seals: Buna
4" female threads by 4" cam and groove

► AILE® TZA-K Probe Installation kit



Visualite Canopy Luminaires For High Visibility

► Good effect on illumination, specially design for gas station, parking garages, storage, car wash bays, etc. Installation by the embedding-type and adsorption type. Many kinds of installation, more convenience to change. Suitable for illumination of petrol station and warehouse.

► Package for base:

Net Weight: 4.55 kg/pc
Gross Weight: 4.9 kg/pc
 35.5X20.5X15.5cm³/Case of 1pc

► Package for glass cover:

Net Weight: 7.4 kg/pc
Gross Weight: 8.2 kg/pc
 40X37X21cm³/Case of 1pc

► Technical parameter:

Working temperature: -30C - 40C
Working voltage: 120V, 220V, 240V /50Hz/60Hz
Power: 250W,400W metal Halide.

► Ordering Specifications:

Product#	voltage	Rated voltage	Colour temperature
VCL250	250W	220V±5%	4000K
VCL320	320W	220V±5%	4000K
VCL400	400W	220V±5%	4000K

► Features & Benefits:

- ◆ Rugged cast aluminum construction designed for rigid mounting and long life.
- ◆ Tool-free entry with spring-loaded touch latch allows easy maintenance, re-lamping from the ground with lamp stick.
- ◆ Borosilicate non-yellowing glass refractor provides high performance, uniform light distribution.
- ◆ Vertical lamp is included and provides maximum output and life.
- ◆ Internal quick-connect simplifies wiring of optical assembly, easing installation.
- ◆ Silicone gasketing seals optical assembly.
- ◆ **Refractor** -High-efficiency,high-performance,heat-resistant borosilicate prismatic glass reflector,self-cleaning system,provide great visual comfort and improved uniformity.
- ◆ **Door Assembly**-Heavy duty die-cast aluminum door and integral glare shield supports the refractor,while polyester powder coat finish.complete sealed for high security and anti-rust.
- ◆ **Reflector**-High pure hydroformed aluminum reflector distributes lamp lumens across the prismatic refractor to form the optical train for even,efficient,uniform message visibility.
- ◆ **Lamp-A** 250W/400W Clear Metal Halide lamp is included with each fixture for matched performance.
- ◆ **Ballast**-Heavy-duty,die-cast aluminum ballast box, reduce the heat from the lamp provides strong protection for inside components. Electronic components is 100% factory tested.High power factor, matched for worldwide Ambient operation.

► AILE® Visualite Canopy Luminaires For High Visibility

