

















Shanghai, as the gate of international affairs between China and the world, has provided Aile with solid foundation of extraordinary development in the Petrol Equipments Industry through its own professional, devoting and dedicating enterprise spirit. Aile has built up the fame as Aircraft Carrier in the industry of China Petrol Equipment Manufacture.

Aile (Shanghai Aile Petroleum Equipment Mfg.Co.Ltd) was established in 1985 with 3 plants occupying 60,000sqm including construction area of 55,000sqm. Aile had reached 20million USD's export value by the end of year 2008 and had become an outstanding leading company in this field.Meanwhile, Aile had received the certificate from ISO9001, PEI(Petroleum, Equipment Institute), CE(Confirmite Eruopeenne), TDT (Transportowego Dozoru Technicznego), TUV(Germany) and ATEX(European Union). With the newly installed CNC(Computerized Numerical Control) equipments, the quality of the product and the efficiency of the production had been highly elevated, which had made all the production meet the satisfaction of the customer's expectation. Our products include: Nozzle, Accessories of Dispensing, Tank Truck Parts and Storage Tank Equipment which almost cover completed products in this industry. Especially the product of Vapor Recovery Nozzle, Il Stage Vapor Recovery Equipments had become a technology breakthrough in China, and Aile is leading the manufacture output in domestic market.

Innovation is the key to technology improvement, and Research & Development on new products is the premises on sustaining the extending of the enterprise. We have followed the goal as "For the Satisfaction of the Customer, For the Profit of the Customer and For the Mutual Improvement with the Customer" and have successfully opened the market in America, Brazil, Argentina, Mexico, Columbia, Germany, Spain, Holland, Italy, Turkey, Greece, Indonesia, Saudi Arabia, Iran, Syria, United Arab Emirates, Australia over 70 countries over the world.

Quality Guaranteed, Customer Oriented, Technology Motivated and Talent Respected" have always been the management philosophy of Aile. We are sincerely seeking the cooperation opportunities with every customer on mutual benefit and mutual development!







General Manager: Ricky Ge

...Though we are the best company in this field in China, we still consider us as a developing one.

To us,
we should always work harder than ever before, keep us on a high way,
and try our best to provide our customers
with the free-inspection products and best services.

In our opinion, our customers' success is our success, so to us, we aim not just to meet our customers' expectation, but to exceed them.

President Aile Ge

ALLE®/www.aile-fc.com





Contents

	Tank truck Products RKG-F-L Series Petroleum Manhole Assemblies RKG-F-16-L Series Of Aluminum Petroleum Manhole Assembli RKG Series Of 16 Inch Steel Petroleum Manhole Assembli RKG Series Of 20 Inch Steel Petroleum Manhole Assembli HYF-01/02 API Bottom Loading Valve	es	01 02 03 04 05	1	Manhole Mounting Flanges and Weld-skirt Cork Sealing Gaskets The Flange For Valves Aile SQG Vapour Hose Blockage cover for manholes
	HYF-U-01/02 API Bottom Loading Valve DG-API Dust Cap JDKJ Series Of Gravity Couplers FV Series of 4 inch Emergency Foot Valve FV-B-4-D-YE 4 Inch Emergency Foot Valve FV-C-3-D-F Emergency Foot Valve				Vapor Recovery Fueling Produc ZYQ-200 Series Of Vapour Recovery Nozzles AILE-SSI Vapor Hose YOLD-01 COAX Safety Break ZYQ-200 Vapor Proportional Valve YQFL-01 COAX adaptor
	FV-C-3-D-YE Emergency Foot Valve FV-B-3-D-F Emergency Foot Valve FV-B-3-D-YE Emergency Foot Valve REV-I Vapor Vent Valve REV-II Vapor Vent Valve REV-F REV-C Vapor Vent Valve		12 	1000	VRP-76L Dispener Mounted Vacuum Pump For Stage II Vapor Rec DR-030 Dispener Mounted Vacuum Pump For Stage II Vapor Reco VRVP Vapor Recovery Vacuum Pump
	DG-VC Vapor Cap VRV-A Vapor Recovery Adaptor VRV-E Vapor Recovery Adaptor VRF-308 Vapor Coupler FYTG01 Probe CZ 01 Slot Truck Plug	W	16 		
	Plug and Cable Assemblies AST System Testers Earthing bolt PCS Pneumatic Control Switch AlL Air Interlock ZHF-V Series Of Vapor Check Valve Adaptors		21 21 22 22 23 23		
ATTENDED IN	SF-API-B Sightglass Flange MO-FV Mechanical Operator SYWG-01 Delivery Elbow SYWG-E1 Series Of Delivery Elbows SYWG-V Dual Point Vapor Recovery Elbows AILE SYG-T Composite Tank Truck Drop Hose		24 		



AILE®

SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO..LTD.

Tank Truck Spare Parts



Our Sincerely and innovated service, Throughout the word. Let AILE march to the world and be known by the same.



































RKG-F-L Series Petroleum Manhole Assemblies

Manhole Cover is equipped on the top of tank truck.

It is the entrance of fluid transfer operation inspection and maintaining the inside tank. It can protect the tank when involving in an emergency.

Under normal practice, vent is closed When loading and unloading and temperature variation, it will cause the pressure variation inside the tank, such as air pressure and negative vacuum pressure, the vent of manhole cover will be closed automatically in order to keep the tank under a normal

When involving in emergency, such as a car accident, the Emergency Exhaust Valve will open the inside tank, meets the setting, in order to prevent explosion.

It is internationally accepted, and specified, by oil companies around the world to assist with the safe transportation of petroleum based products.

Technique Specification:

- Setting pressure of vent discharge: 7.14Kpa
- ◆ Negative opening pressure:-2Kpa~-3Kpa
- Setting pressure of emergency exhaust valve: 0.0266Mpa+0.001Mpa
- ◆ Pressure resistance:0.254Mpa
- Metting EN 13317:2002 Standard

RKG-F-20-L-AQS Package:

Net Weight: 18KG/PC Gross Weight: 19KG/PC 55 x 53 x 22.5 cm³/Case of 1PC 47.5x45.5x22.5 cm³/Case of 1PC

RKG-F-16-L-AQS Package:

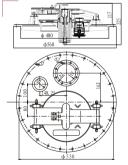
Net Weight: 16KG/PC Gross Weight: 17KG/PC

► Features & Benefits:

- ◆ Material: Casting Aluminum
- Pressure and vacuum vent fitted as standard for tank breathing.
- Various ratings are available to suit operational requirements.
- ◆ Spring-loaded fill cap provides emergency fire engulfment venting to NTTC DOT 406, required in the event of the tank being exposed to a fire.
- ◆ Automatic sealing of the P/V vent in a roll over situation prevents dangerous and costly spillage.
- Aluminium cover arm is also available on some variants.
- ◆ Two-stage opening allows safe release of residual compartment pressure before fully opening the fill cap.
- ◆ 250mm(10")fill hole for easy drop pipe insertion when top loading.
- High quality of baseplate and component materials, to international standards, are used for durability and performance.
- Especially, theft-proof sensor of Aluminum Alloy baseplate for Manhole Assemblies is available.



AILE RKG-F Series

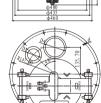




Fitting:safety lock (according to customer needs)











RKG-F-16-L-AQS

Product Code	Drawing No./Name	D1	D2	A2	.d2	D3Thread	D4	D5	A5	d5	d
RKG-F-20-AQS-101		ф60.3	ф 104	ф 123.7	8- \phi 10.5						
RKG-F-20-AQS-102	RKG-F-20-L-AQS	ф60.3									24-φ9.5
RKG-F-20-AQS-103	Flanged 20"										
RKG-F-20-AQS-104	Casting-aluminum	ф60.3	ф 104	ф 123.7	8- \phi 10.5						
RKG-F-20-AQS-105	Manhole Cover (with safety lock)	ф 60.3									24-φ11.5
RKG-F-20-AQS-106	(with salety lock)										1 1
RKG-F-20-AQS-107]	ф60.3	ф 104	ф 123.7	8-⊕9						1 1
RKG-F-16-AQS-201	RKG-F-16-L-AQS Flanged 16"	ф60.3					φ96				
RKG-F-16-AQS-202	Casting-aluminum Manhole Cover	ф60.3									12- ф 9.5
RKG-F-16-AQS-203	(with safety-lock)										

AILE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

RKG-F-16-L Series Of Aluminum Petroleum Manhole Assemblies

Manhole Cover is equipped on the top of tank truck.

It is the entrance of fluid transfer operation inspection and maintaining the inside tank. It can protect the tank when involving in an emergency.

Under normal practice, vent is closed When loading and unloading and temperature variation, it will cause the pressure variation inside the tank, such as air pressure and negative vacuum pressure, the vent of manhole cover will be closed automatically in order to keep the tank under a normal

When involving in emergency, such as a car accident, the Emergency Exhaust Valve will open the inside tank, meets the setting, in order to prevent explosion.

It is internationally accepted, and specified, by oil companies around the world to assist with the safe transportation of petroleum based products.

► Technique Specification:

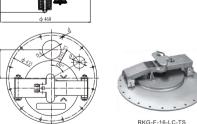
- Setting pressure of vent discharge: 7.14Kpa
- ◆ Negative opening pressure:-2Kpa~-3Kpa
- Setting pressure of emergency exhaust valve: 0.0266Mpa+0.001Mpa
- ◆ Pressure resistance:0.254Mpa
- ◆ Metting EN 13317:2002 Standard

RKG-F-16-LC-TS RKG-F-16-H-AQS

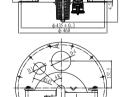
Package:

Net Weight: 15.50 KG/PC Gross Weight: 17.50KG/PC 47.5x45.5x22.5 cm3/Case of 1PC

AIL€ RKG-F Series







Features & Benefits:

being exposed to a fire.

performance

Material: Extend aluminum plate

prevents dangerous and costly spillage.

for Manhole Assemblies is available.

Pressure and vacuum vent fitted as standard for tank

Various ratings are available to suit operational requirements.

venting to NTTC DOT 406, required in the event of the tank

◆ Spring-loaded fill cap provides emergency fire engulfment

Automatic sealing of the P/V vent in a roll over situation

Aluminium cover arm is also available on some variants.

compartment pressure before fully opening the fill cap.

High quality of baseplate and component materials, to

international standards, are used for durability and

◆ 250mm(10")fill hole for easy drop pipe insertion when top

Especially, theft-proof sensor of Aluminum Alloy baseplate

Two-stage opening allows safe release of residual



Fitting:safety lock (according to customer needs)



RKG-F-16-H-AQS

Product Code	Drawing No./Name	D1	D2	A2	d2	D3Thread	D4	D5	A5	d5	d
	RKG-F-16-LC-TS						ф 96				
RKG-F-16-TS-302	Flanged 16" Aluminum Manhole Cover	ф60.3									12- ф 9.5
RKG-F-16-TS-303	(with brass-lock)										
	RKG-F-16-H-AQS	ф60.3					φ97.5				
RKG-F-16-AQS-402	Flanged 16" Mixed Manhole Cover	ф60.3									12- ф 9.5
RKG-F-16-AQS-403	(with safety-lock)										

RKG Series Of 16 Inch Steel Petroleum Manhole Assemblies

► Features & Benefits:

Pressure and vacuum vent fitted as standard for tank

Automatic sealing of the P/V vent in a roll over situation

compartment pressure before fully opening the fill cap.

• 250mm(10") fill hole for easy drop pipe insertion when top

Description

Vent

Emergency Exhaust Valve

Lever

Sprina

Gasket: Buna-N

Fitting:safety lock

(according to customer needs)

RKG-F-16-G-AQS

◆ Two-stage opening allows safe release of residual

High quality baseplate and component materials, to

international standards, are used for durability and

Weld Ring: Steel

prevents dangerous and costly spillage.

DROP tests(AS 2809-2-1990)

breathing. Various ratings are available to meet operational

Steel cover arm exceeds the requirements of the Australian

Material: Coated steel

requirements

loading.

performance.

Key

1

2

Materials:

Cover: Steel

► Replacement Parts:

Manhole Cover is equipped on the top of tank truck.

It is the entrance of fluid transfer operation inspection and maintaining the inside tank. It can protect the tank when involving in an emergency.

Under normal practice, vent is closed When loading and unloading and temperature variation, it will cause the pressure variation inside the tank, such as air pressure and negative vacuum pressure, the vent of manhole cover will be closed automatically in order to keep the tank under a normal

When involving in emergency, such as a car accident, the Emergency Exhaust Valve will open the inside tank, meets the setting, in order to prevent explosion.

It is internationally accepted, and specified, by oil companies around the world to assist with the safe transportation of petroleum based products.

Technique Specification:

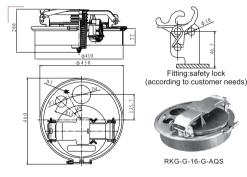
- Setting pressure of vent discharge: 7.14Kpa
- Negative opening pressure:-2Kpa~-3Kpa
- Setting pressure of emergency exhaust valve: 0.0266Mpa ± 0.001Mpa
- ◆ Pressure resistance:0.254Mpa
- Metting EN 13317:2002 Standard

RKG-G-16-G-AQS RKG-F-16-G-AQS

Package:

Net Weight: 15.50 KG/PC Gross Weight: 17.50KG/PC 47.5x45.5x22.5 cm3/Case of 1PC

► AILE RKG Series



Product Code	Drawing No./Name	D1	D2	A2	d2	D3Thread	D4	D5	A5	d5	d
RKG-G-16-501	RKG-G-16-G-AQS	ф60.3				BSPP1/4"	ф 97.5				
	Clamped 16" Steel	ф60.3					ф 97.5				
RKG-G-16-503	Manhole Cover	ф60.3]
RKG-G-16-504	(with safety-lock)										
RKG-F-16-601	RKG-F-16-G-AQS	ф 60.3					ф 97.5				
RKG-F-16-602	Flanged 16" Steel Manhole Cover (with safety-lock)	ф60.3									12- ϕ 9.5
RKG-F-16-603											

ATLE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

RKG Series Of 20 Inch Steel Petroleum Manhole Assemblies

Manhole Cover is equipped on the top of tank truck.

It is the entrance of fluid transfer operation inspection and maintaining the inside tank. It can protect the tank when involving in an emergency.

Under normal practice, vent is closed When loading and unloading and temperature variation, it will cause the pressure variation inside the tank, such as air pressure and negative vacuum pressure, the vent of manhole cover will be closed automatically in order to keep the tank under a normal

When involving in emergency, such as a car accident, the Emergency Exhaust Valve will open the inside tank, meets the setting, in order to prevent explosion.

It is internationally accepted, and specified, by oil companies around the world to assist with the safe transportation of petroleum based products.

► Technique Specification:

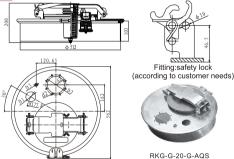
- Setting pressure of vent discharge: 7.14Kpa
- ◆ Negative opening pressure:-2Kpa~-3Kpa
- Setting pressure of emergency exhaust valve: 0.0266Mpa±0.001Mpa
- Pressure resistance: 0.254Mpa
- Mettina EN 13317:2002 Standard

RKG-G-20-G-AQS RKG-F-20-G-AQS

Package:

Net Weight: 18KG/PC Gross Weight: 19.8KG/PC 55 x 53 x 22.5 cm3/Case of 1PC

AILE RKG Series



Drawing No./Name

RKG-G-20-703 Clamped 20" Steel

RKG-G-20-G-AQS

Features & Benefits:

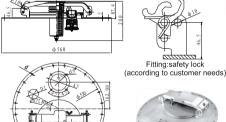
- Material: Coated steel
- Pressure and vacuum vent fitted as standard for tank breathing. Various ratings are available to meet operational requirements
- Automatic sealing of the P/V vent in a roll over situation prevents dangerous and costly spillage.
- Steel cover arm exceeds the requirements of the Australian DROP tests(AS 2809-2-1990)
- Two-stage opening allows safe release of residual compartment pressure before fully opening the fill cap.
- ◆ 250mm(10")fill hole for easy drop pipe insertion when top
- High quality baseplate and component materials, to international standards, are used for durability and performance

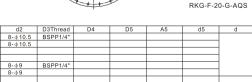
► Replacement Parts:

Key	Description
1	Vent
2	Emergency Exhaust Valve
3	Lever
4	Spring

Materials:

Cover: Steel Weld Rina: Steel Gasket: Buna-N





RKG-G-20-704 Manhole Cover (with safety-lock) RKG-G-20-705 ф 123.7 8-ф 9 BSPP1/4" ф 101.5 ф 130 4- φ 11.5 24- ⊕ 9.5

φ60.3 φ60.3

HYF-01/02 API Bottom Loading Valve

► HYF-01 API Bottom Loading Valve is used in tank truck for loading and unloading petrol kind of liquids. HFY-02 without handle is normally used for loading only. HYF-01 has a handle with two-stage for controlling different flow rates while loading or unloading. The light weight and heavy-duty valve is designed and tested to meet API standards, the outer nose end is hard-anodised aluminum alloy and be easily rotated to prevent uneven wear caused by terminal and unloading couplings. The valve is constructed with TTMA standard 4-inch tank truck flange and mounting lugs for AILE Air Interlock.

Materials:

Body: Aluminum allov API adaptor end: Hard-coated aluminum POPPET: Stainless steel Shaft and latch plate: Stainless steel CAM: Brass

HANDLE: Aluminum allov Seals: Viton & Buna-N

Standard: Meet API R P 1004 TTMA Standard.

Package:

Net Weight: 5 KG/PC Gross Weight: 6.4KG/PC 23x19x26 cm3/Case of 1PC

Ordering Specifications:

Product #	Туре	IN.	KG.
HYF-01	With Handle	4.00	6.00
HYF-02	Without Handle	4.00	5.80

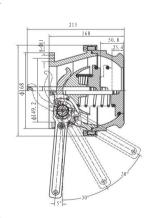
► Features & Benefits:

- Heat-treated, aluminum alloy body and flange
- Hard-coated aluminum API adaptor end
- Stainless steel poppet, shaft, and latch plate
- H62 brass cam
- Cast Aluminum Allov Handle
- Viton seals
- Meets API RP 1004 specifications
- TTMA Standards
- Two-stage fixed aluminum handle gives positive indication of flow rates.
- Conforms to API RP1004 for total compatibility with API
- Lightweight die cast aluminum construction with high-octane fuels and additives.
- Viton seals are standard for compatibility with high-octane fuels and additives.
- Hvdrodvnamic design minimises pressure drop for high flow rates.
- Stainless steel operating shaft, cam and poppet stem for durability
- Top mounting for hose interlock.

► Replacement Parts:

	Shaft Seal
_	Cover Seal
_	Flange Seal
_	Handle (for HYF-01)
_	API Adaptor End

► AILE HYF-01





HYF-01



HYF-02

ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

HYF-U-01/02 API Bottom Loading Valve

► HYF-U-01 API Bottom Loading Valve is used in tank truck for loading and unloading petrol kind of liquids. HFY-U-02 without handle is normally used for loading only. HYF-U-01 has a handle with two-stage for controlling different flow rates while loading or unloading. The light weight and heavy-duty valve is designed and tested to meet API standards, the outer nose end is hard-anodised aluminum alloy and be easily rotated to prevent uneven wear caused by terminal and unloading couplings. The valve is constructed with TTMA standard 4-inch tank truck flange and mounting lugs for AILE Air Interlock.

Materials:

Body: Aluminum allov API adaptor end: Hard-coated aluminum POPPET: Stainless steel Shaft and latch plate: Stainless steel CAM: Brass HANDLE: Aluminum allov Seals: Viton & Buna-N

Standard: Meet API R P 1004 TTMA Standard.

Package:

Net Weight: 6 KG/PC Gross Weight: 6.33KG/PC 74x41x22 cm3/Case of 6PC

Ordering Specifications:

ı	Product #	Type	IN.	KG.
	HYF-U-01	With Handle	4.00	6.00
	HYF-U-02	Without Handle	4.00	5.80

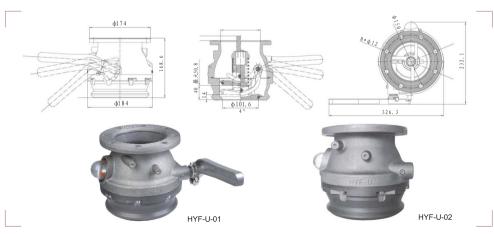
► Features & Benefits:

- Heat-treated, aluminum alloy body and flange
- Hard-coated aluminum API adaptor end
- ◆ Stainless steel poppet, shaft, and latch plate
- ♦ H62 brass cam
- ◆ Cast Aluminum Allov Handle
- Viton seals
- Meets API RP 1004 specifications
- TTMA Standards
- ◆ Two-stage fixed aluminum handle gives positive indication of flow rates.
- Conforms to API RP1004 for total compatibility with API couplers.
- Lightweight die cast aluminum construction with high-octane fuels and additives.
- Viton seals are standard for compatibility with high-octane fuels and additives.
- Hvdrodvnamic design minimises pressure drop for high flow
- Stainless steel operating shaft, cam and poppet stem for durability.
- ◆ Top mounting for hose interlock.
- Sight glass for detecting liquids

► Replacement Parts:

Shaft	t Seal
Cove	er Seal
Flang	ge Seal
Hand	dle (for HYF-U-01)
API a	adaptor end

▶ AILE HYF-U



DG-API Dust Cap

This lightweight.API Dust Cap shields valuable bottom loading valves from destructive outside elements. The cap easily couples on. API bottom loading adaptors use a reliable Buna-N gasket. The corrosion- resistant cap comes with forged brass cam arms and a heavy-duty attached chain.

Package:

Net Weight: 1.33kg/pc Gross Weight: 1.11kg/pc 48x44x40cm³/case of 20pc

Ordering Specifications:

product#	SIZE	MATERIAL
DG-API-D	4"	Epoxy Coated Aluminum

► Features & Benefits:

- ◆ Meets API Rp1004 Specifications
- Operation with one handle (DG-API-A)
- High quality and lightweight aluminum Pressure
- ◆ Die cast body

AILE DG-API

- ◆ 19" stainless steel chain for attachment to API
- ◆ Bottom Loading Valves(see page5、6)
- ◆ Locking hole for wire seals: center sealing(DG-API-A) side sealing(DG-API-D)

JDKJ Series Of Gravity Couplers

AILE's Gravity Couplers optimize the connection between 4" API adaptors and a 4" hose connection, ensuring safe, fast unloading. It has been redesigned with an interior "lip" that makes hook-ups easier. JDKJ series of Gravity Couplers are specifically designed for use with API Bottom Loading Valves when discharging product and with coupling to any adaptor made in accordance with API Rp 1004.

Ordering Specifications:

Product #	Description	in.	mm.	Lbs.	Kg.
JDKJ-801	Male cam and groove	3.00	76.2	4.00	1.81
JDKJ-802	Male cam and groove	4.00	101.6	5.00	2.27
JDKJ-803	Male-NPT thread	3.00	76.2	4.00	1.81
JDKJ-804	Male-BSP thread	3.00	76.2	4.00	1.81
JDKJ-805	Male-NPT thread	4.00	101.6	4.31	1.96
JDKJ-806	Male-BSP thread	4.00	101.6	4.31	1.96

Package:

Net Weight: 2.06Kg/pc Gross Weight: 2.15kg/pc 43 x43 x32cm3/case of 8pc

► Features & Benefits:

- "lip" in the 12-o'clock position centres the coupler with API adaptor for solid connection.
- Easier for operator to handle
- Available with either CAM LOCK coupler or NPT/ BSP female threads at the hose connection.
- Stainless steel chain meeting with standard 4" API RP-1004 tank truck adaptors with Aluminum body and Buna-N seals.
- ◆ Available with viton seals. (Please contact AILE for details.)
- Heavy pressure casting make products get light weight and smooth and beautiful appearance.

▶ AILE JDKJ



DG-API-D



DG-API-A





ALL SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

FV Series of 4 inch Emergency Foot Valve

AILE's FV Series of Emergency Foot Valves now make product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 4 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 4 " TTMA Flanges and mechanical or air assisted.

Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a tough, reliable, high flow emergency valve.

Package:

Net Weight: 7.8 KG/PC Gross Weight: 8KG/PC 38x32x35 cm3/Case of 6PC



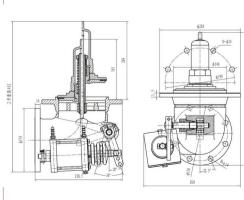
► Features & Benefits:

- High Flow Rate
- Fits Std 4 " TTMA Sump
- Shear section per TTMA. RP84-92and meets DOT 49 CFR
- ◆ Force ratings from TTMA RP86-92
- Shear Groove meets DOT 406 requirements
- Optional External Air Cylinder available
- Available in flanged version.
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- ◆ External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident. Closure by self-centring plunger and durable compression
- spring. Brass cam with bearing boot on plunger stem for smooth
- operation and extended life.
- Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation.Metting EN 13308:2002 Standard

Replacement Parts:

PART	SIZE	DESCRIPTION
FV-A-4-W-YI	4 "	4 " Round Std/seal Flanged outlet
FV-C-4-W-YI	4 "	4 " Round Std/seal Flanged outlet

AIL€ FV Series of 4 inch Emergency Foot Valve





Fitting: Top emergency operator (according to customer needs)

Fitting:Manual mechanical operator

(according to customer needs)



FV-C-4-W-YI

07 www.aile-fc.com www.aile-fc.com 08

FV Series of 4 inch Emergency Foot Valve

► AILE's FV Series of Emergency Foot Valves now make product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 4 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 4 " TTMA Flanges and mechanical or air assisted.

Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a tough, reliable, high flow emergency valve.

Package:

Net Weight: 7.8 KG/PC Gross Weight: 8KG/PC 38x32x35 cm3/Case of 6PC



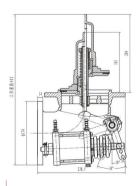
► Features & Benefits:

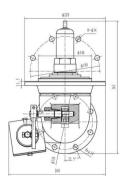
- High Flow Rate
- Fits Std 4 " TTMA Sump
- Shear section per TTMA. RP84-92and meets DOT 49 CFR
- ◆ Force ratings from TTMA RP86-92
- Shear Groove meets DOT 406 requirements
- Optional External Air Cylinder available
- Available in flanged version
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
- Closure by self-centring plunger and durable compression
- Brass cam with bearing boot on plunger stem for smooth operation and extended life.
- Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- ◆ Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation. Metting EN 13308:2002 Standard

Replacement Parts:

PART	SIZE	DESCRIPTION	
FV-A-4-D-YI	4 "	4 " Round Std/seal Flanged outlet	
FV-C-4-D-YI	4 "	4 " Round Std/seal Flanged outlet	

► AILE FV Series of 4 inch Emergency Foot Valve









FV-A-4-D-YI

FV-C-4-D-YI

ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

FV-B-4-D-YE 4 Inch Emergency Foot Valve

► AILE's Emergency Foot Valves now make product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 4 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 4 " TTMA Flanges and mechanical or air assisted.

Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a tough, reliable, high flow emergency valve.

FV-B- 4-D-YE Package:

Net Weight: 7.3KG/PC Gross Weight: 7.5KG/PC 38x26x27 cm3/Case of 1PC



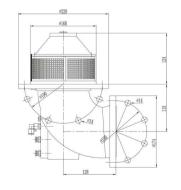
► Features & Benefits:

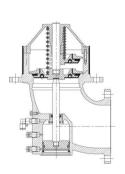
- High Flow Rate
- Fits Std 4 " TTMA Sump
- ◆ Shear section per TTMA. RP84-92and meets DOT 49 CFR
- ◆ Force ratings from TTMA RP86-92
- Shear Groove meets DOT 406 requirements.
- Internal Air Cylinder
- Available in flanged version & Filter net
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- ◆ External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
- ◆ Closure by self-centring plunger and durable compression spring. Brass cam with bearing boot on plunger stem for smooth
- operation and extended life. ◆ Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- ◆ Push Rod Adaptor or Eve Bolt available for mechanical vent or top operation.Metting EN 13308:2002 Standard

Replacement Parts:

FV-B-4-D-YE 4 " Round Std/seal Flanged or	utlet

► AILE FV-B-4-D-YE 4 Inch Emergency Foot Valve







FV-B-4-D-YE

FV-C-3-D-F Emergency Foot Valve

product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 3 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 3 " TTMA Flanges and mechanical or air assisted. Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a tough, reliable, high flow emergency

Package:

Net Weight: 3.8KG/PC Gross Weight: 4KG/PC 38x26x27 cm³/Case of 1PC



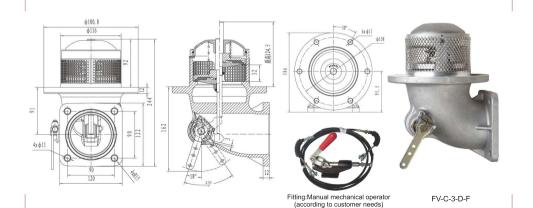
► AILE 's FV-C-3-D-F Emergency Foot Valves now make ► Features & Benefits:

- High Flow Rate
- Fits Std 3 " TTMA Sump
- Shear section per TTMA, RP84-92and meets DOT 49 CFR 178.345-8
- ◆ Force ratings from TTMA RP86-92
- ◆ Shear Groove meets DOT 406 requirements
- Available in flanged version & Filter net
- ◆ Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- → Lightweight aluminium construction for increased payloads.
- ◆ High lift poppet for maximum flow.
- External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
- Closure by self-centring plunger and durable compression spring.
- Brass cam with bearing boot on plunger stem for smooth operation and extended life.
- Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation. Metting EN 13308:2002 Standard

Replacement Parts:

PART	DESCRIPTION	
FV-C-3 -D-F	3 " Square Std/seal Flanged outlet	

► AILE FV-C-3-D-F Emergency Foot Valve





FV-C-3-D-YE Emergency Foot Valve

AILE 's FV-C-3-D-YE Emergency Foot Valves now make product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 3 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 3 " TTMA Flanges and mechanical or air assisted. Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum

products who require a tough, reliable, high flow emergency

Package:

Net Weight: 3.8KG/PC Gross Weight: 4KG/PC 38x26x27 cm³/Case of 1PC

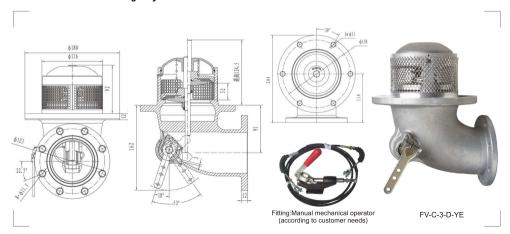
► Features & Benefits:

- High Flow Rate
- Fits Std 3 " TTMA Sump
- Shear section per TTMA, RP84-92and meets DOT 49 CFR 178 345-8
- ◆ Force ratings from TTMA RP86-92
- ◆ Shear Groove meets DOT 406 requirements
- ◆ Available in flanged version & Filter net
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
- Closure by self-centring plunger and durable compression spring.
- Brass cam with bearing boot on plunger stem for smooth operation and extended life.
- Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation. Metting EN 13308:2002 Standard

Replacement Parts:

PART	DESCRIPTION
FV-C-3-D-YE	3 " Round Std/seal Flanged outlet

▶ AILE FV-C-3-D-YE Emergency Foot Valve



FV-B-3-D-F Emergency Foot Valve

product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 3 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 3 " TTMA Flanges and mechanical or air assisted. Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a touch, reliable, high flow emergency

Package:

Net Weight: 3.8KG/PC Gross Weight: 4KG/PC 38x26x27 cm³/Case of 1PC



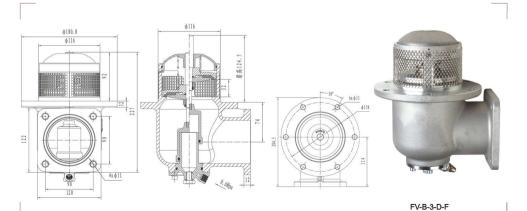
► AILE 's FV-B-3-D-F Emergency Foot Valves now make ► Features & Benefits:

- High Flow Rate
- Fits Std 3 " TTMA Sump
- Shear section per TTMA, RP84-92and meets DOT 49 CFR 178.345-8
- ◆ Force ratings from TTMA RP86-92
- ◆ Shear Groove meets DOT 406 requirements
- ◆ Internal Air Cylinder
- Available in flanged version & Filter net
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
- Closure by self-centring plunger and durable compression spring.
- Brass cam with bearing boot on plunger stem for smooth operation and extended life.
- Double O-ring seals on camshaft for improved sealing and ease of maintenance.
- Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation. Metting EN 13308:2002 Standard

► Replacement Parts:

PART	DESCRIPTION	
FV-B-3-D -F	3 " Square Std/seal Flanged outlet	

▶ AIL€ FV-B-3-D-F Emergency Foot Valve



ATLE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

FV-B-3-D-YE Emergency Foot Valve

AILE's FV-B-3-D-YE Emergency Foot Valves now make product handling safer. The emergency valve has a shear groove that meets 49 CFR 178.345-8. The seat area of the valve is located inside of the tank shell as required by DOT regulations. The valve gives you the advantage of a faster flow rate while fitting a standard 3 " TTMA sump. The high flow rate is established by a full opening throat area. Emergency valves are available in 90 degree elbow type 3 " TTMA Flanges and mechanical or air assisted.

Specifically designed for ease of maintenance, high flow

Specifically designed for ease of maintenance, high flow and durability. The simplistic design of this valve makes it ideally suited to oil companies and transporters of petroleum products who require a tough, reliable, high flow emergency valve.

Package:

Net Weight: 3.8KG/PC Gross Weight: 4KG/PC 38x26x27 cm³/Case of 1PC

► Features & Benefits:

- High Flow Rate
- Fits Std 3 " TTMA Sump
- Shear section per TTMA, RP84-92and meets DOT 49 CFR 178 345-8
- ◆ Force ratings from TTMA RP86-92
- ◆ Shear Groove meets DOT 406 requirements
- ◆ Internal Air Cylinder
- Available in flanged version & Filter net
- Seals-viton
- High quality die cast body and component materials, to international standards, are used for durability and performance.
- Lightweight aluminium construction for increased payloads.
- High lift poppet for maximum flow.
- External shear groove meets TTMA and NTTC DOT 406 to limit product spillage in the event of an accident.
 Closure by self-centring plunger and durable compression
- spring.

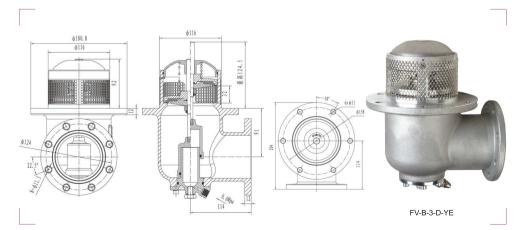
 Brass cam with bearing boot on plunger stem for smooth
- operation and extended life.

 Double O-ring seals on camshaft for improved sealing
- and ease of maintenance.
- Push Rod Adaptor or Eye Bolt available for mechanical vent or top operation. Metting EN 13308:2002 Standard

Replacement Parts:

PART	DESCRIPTION	
FV-B-3-D -YE	3 " Round Std/seal Flanged outlet	

▶ AIL€ FV-B-3-D-YE Emergency Foot Valve



13 www.aile-fc.com

SHANGHALAILE PETROLEUM EQUIPMENT MEG CO. LTD.

REV-I Vapor Vent Valve

▶ REV-I Air operated vapor vents are used to connect tank compartments to the rollover rail vapor recovery system. effectively sealing the tank compartments when transporting. then opening to allow vapor flow duringloading and unloading. Handle fuel vapors safely and efficiently with this lightweight aluminum vapor valve. The air-operated valve allows fast vapor flow during loading and unloading. The poppet is designed to open into the tank, preventing accidental leakage from product surges or from a tank truck rollover. Easy-to-use air line connections are located outside the compartment for convenient installation and maintenance.

Package:

Net Weight: 1.5Kg/pc Gross Weight: 1.69kg/pc 58 x26 x27cm³/case of 8pc

► Features & Benefits:

- ◆ 4 " high-capacity design provides superior flow for faster loading and unloading
- ◆ Multiple mounting options, stainless steel spring, 1/4 " NPT air lineholes
- Minimum operating pressure, 60 PSI; units begin to sequence at 50 PSI and begin to exhaust at 40PSI
- For use with 20 " manhole.4 " TTMA bolt pattern mounting
- ◆ Safe inward opening valve, easy maintenance of viton O'Ring seals
- Built in sequencing feature allows control of emergency valve if desired

REV- II Vapor Vent Valve

REV-II Air operated vapor vents are used to connect tank compartments to the rollover rail vapor recovery system. effectively sealing the tank compartments when transporting. then opening to allow vapor flow duringloading and unloading. Handle fuel vapors safely and efficiently with this lightweight aluminum vapor valve. The air-operated valve allows fast vapor flow during loading and unloading. The poppet is designed to open into the tank, preventing accidental leakage from product surges or from a tank truck rollover. Easy-to-use air line connections are located outside the compartment for convenient installation and maintenance.

Package:

Net Weight: 1.375 Kg/pc Gross Weight: 1.5kg/pc 53 x24 x25cm3/case of 8pc

► Features & Benefits:

- 4 " high-capacity design provides superior flow for faster loading and unloading
- ◆ Multiple mounting options, stainless steel spring, 1/4 " NPT air lineholes
- Minimum operating pressure, 60 PSI; units begin to sequence at 50 PSI and begin to exhaust at 40PSI
- ◆ For use with16 " manhole, threaded ring mounting
- Safe inward opening valve, easy maintenance of viton O'Ring seals
- Built in sequencing feature allows control of emergency valve if desired

REV-F | REV-C Vapor Vent Valve

REV-F Air operated vapor vents are used to connect tank compartments to the rollover rail vapor recovery system. effectively sealing the tank compartmentswhen transporting, then opening to allow vapor flow duringloading and unloading. Handle fuel vapors safely and efficiently with this lightweight aluminum vapor valve. The air-operated valve allows fast vapor flow during loading and unloading. The poppet is designed to open into the tank, preventing accidental leakage from product surges or from a tank truck rollover. Easy-to-use air line connections are located outside the compartment for convenient installation and maintenance.

ATLE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

► Package:

Net Weight: 1.81Kg/pc Gross Weight: 1.875kg/pc 58x26 x27cm³/case of 8pc

► Features & Benefits:

- ◆ 4 " high-capacity design provides superior flow for faster loading and unloading
- ◆ Multiple mounting options, stainless steel spring, 1/4 " NPT
- Minimum operating pressure, 60 PSI; units begin to sequence at 50 PSI and begin to exhaust at 40PSI
- ◆ For use with 20 " manhole.4 " TTMA bolt pattern mounting
- ◆ Safe inward opening valve, easy maintenance of viton O'Ring seals
- Built in sequencing feature allows control of emergency valve if desired

DG-VC Vapor Cap

AILE's DG-VC Vapor Cap secures onto the vapor check valves to prevent dust and debris buildup. It also protects the vapor check valve adaptor on the line portion of a dual point fill systems. Orange in color to indicate vapor recovery lines and lockable to prevent misuse. Our vapor cap fits all 4" male quick couplings and the cam action creates a solid push down and pull up movement for fast easy removal and replacement of cap.

Package:

Net Weight: 0.63Kg/pc Gross Weight: 2kg/pc 57x38x40cm3/ case of 30pc

Ordering Specifications:

product#	SIZE	MATERIAL	
DG-VC	4"	Epoxy Coated Aluminum	

► Features & Benefits:

- ◆ Epoxy coated aluminum body
- ◆ Padlock capability
- ◆ Iron-copper infiltrated 4"cams
- Corrosion resistant steel hatches



AILE REV-▶ AILE REV- II



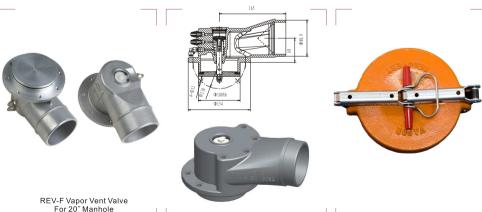
REV-I Vapor Vent Valve For 20" Manhole



REV-II Vapor Vent Valve For 16" Manhole

▶ AIL€ REV-F ► AILE REV-C





VRV-A Vapor Recovery Adaptor

► AILE 's VRV-A Vapor Recovery Valve is mounted directly ► Features & Benefits: onto the recovery pipe the tank truck, it is a high-flow,low pressure drop, poppeted vapor recovery fitting that permits. Simultaneous loading (1.000+GPM) of compartments without exceeding the pressure rating of pressure vacuum vents. Unloading performance is also boosted by the VRV-A's high-flow design. Proper vapor collection-with superior flow characteristics-means vents are less likely to pop open from compartment back-pressure, minimizing the potential for atmospheric vapor loss. The sight glass will make detecting and draining liquids easy During an accidental overfill) which is fit for connecting to air interlock valve

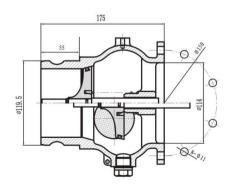
Package:

Net Weight: 2.825 Kg/pc Gross Weight: 3.775kg/pc 42 x 40.6 x38cm³/case of 8pc



- ♦ Seals: Buna
- ◆ 4" cam and groove
- hard coated body for longer life
- with sight glass
- Designed in accordance with API RP -1004, with a standard 4" TTMA Flange
- High flow rate/low pressure drop design affords faster loading
- ◆ The vapour recovery valve is mounted directly onto the recovery pipe of the vehicle.
- The valve (VRV and gasket) must be mounted as shown in the figure.
- The gasket used should be conductive. If a non-conductive gasket is used, a conductive connection must be established via the flange screws.
- The fixing screws must not be over tightened.
- The fittings for the 6 mm air hoses must be mounted at the VRV interlock.
- The vapour tightness of the valve and the gasket must be checked.
- ◆ The electrical conductivity from the VRV across the gasket to the vapour recovery pipe must be checked.
- Metting EN 133081:2002 Standard

AILE VRV-A





ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

VRV-E Vapor Recovery Adaptor

► AILE 's VRV-E Stage I Vapor Recovery Adaptors and Caps. Stage I Vapor Recovery Adaptors are installed in spill containment manholes on the vapor recovery riser pipe from an underground gasoline storage tank.

They mate with the vapor recovery elbow on the delivery transport truck whenrecovery of gasoline vapors is required. Stage I Caps are installed on adaptors when not in use to prevent gasoline vapors from escaping and to prevent water.dust and debris from entering the tank.

Package:

Net Weight: 1.585Kg/pc Gross Weight: 2kg/pc 55x41.5 x17.5cm³/case of 12pc

Ordering Specifications:

Product #	Connection	
VRV-E-801	NPT4"	
VRV-E-802	BSPT4"	

► Features & Benefits:

- Seals:Buna/Viton
- ◆ 3" vapor check poppet
- ◆ 4" female threads by 4" cam and groove
- hard coated body for longer life

► AILE VRV-E



VRF-308 Vapor Coupler

Fast, safe vapor recovery is easy with this probed hose coupler. Hose shank end bands to a vapor recovery hose and the probe automatically opens the poppet of the vapor check valve when coupled. The coupler comes in threesizes for use with most vapor check valves and hose configurations.

The poppetted vapor returning to hose coupler design prevents vapor from escaping when disconnected and the probe automatically opens the vapor check valve when connected properly. The design also offers low restrictive vapor passage.

The body and probe are made of heat treated anodized. Aluminum, with Brass cams, stainless steel pins, and the poppet has a replaceable Buna-N " O " ring.

Package:

Net Weight: 1.46Kg/pc Gross Weight: 2.11kg/pc 55.5x49.5 x39.5cm3/case of 18pc

► Features & Benefits:

- ◆ The Vapor Hose Coupler is designed for maximum flow of vapor during delivery operations.
- ♦ 3"or 4"hose shank
- ◆ Lightweight aluminum body
- Internal probe for opening poppeted vapor adaptors
- Brass cams reduce wear on vapor adaptor and eliminate corrosion
- Buna-N seal

▶ AILE VRF-308



SHANGHALAILE PETROLEUM EQUIPMENT MEG CO. LTD.

FYTG01 Probe

▶ AILE 's FYTG01 is designed to be mounted through a ▶ **Specifications:** 50mm hole and sealed with a gasket and locknut or screwed directly into a 50mm BSP thread. Access to the height adjustment for the probe or the wiring is through the top of the housing. The probe can be adjusted by loosening the internal capscrews and sliding the probe up or down to the correct sensing height.

The body has provision for two cable entries. M20 eliminating the need to mount a tee with cover in the conduit line. This allows for better connections, easier fault finding and guicker installation.

Materials:

Aluminium lid, body & compression bush, Nitrile seals, Zinc plated screws & washers. AILE 's OVERFILL PROTECTION Probe provides all the features associated with optic overfill protection probe technology. Combined with this, the probe has some significant advantages in the areas of specialist applications.

Applications like corrosive chemicals, high temperature and low temperature require specialised materials of construction. As such, the one piece glass probe developed by AILE, solves the problems associated with these environments. The unique construction of this probe means there is no possible attack either chemically or atmospherically (temperature range from -40c to

The probes, like all Liquip probes, are designed to be totally interchangeable with other approved systems.

- Will accommodate probe dia.22.3mm to 25.5mm with min. probe length70mm.
- Maximum length of probe inside housing is 87mm.
- Maximum plate thickness for mount is
- Overall height is 101mm, overall dia, is 107mm.
- ♦ Weight 1.1 kg
- Mounting via 50mm BSP male thread or into 62mm dia. Hole.
- ◆ Made by AILE co.ltd

► Features & Benefits:

- Glass body
- Solid state electronics in the compound
- Unique light reflection system ensures accuracy
- Probe dimensions universal to existing flanges.
- ◆ Self checking circuitry for fail-safe operation



► AILE FYTG01 Probe





CZ 01 Slot Truck Plug

Truck plug made from ShangHai Aile company isused for overfill protection with added ground assurance.Industry standard 10 pin overfill protection plug isinterchangeable with others of the same type, howeverincorporates no-cost wiring connectors whichensure the tanker is bonded to the gantry so long asthe plug body is correctly mounted.

This dissipates static electricity and prevents sparks due todifferences in potential.CZ 01 series provides standard 10 pinconnection for tanker system with room for an electronicdummy should this be required in a 2-wire operation

► Materials:

Where CZ 01 series differs is in the way it ensures good grounding of the tanker to the gantry and ensures dissipation of static electricity and so eliminates sparks. Hence the name "Ground Boss".

It has long been a recommended practice to break the number 10 common earth return and "force" it through the tanker frame by terminating and bolting the wire through the tank at a distance apart to ensure grounding of the tank. However the difficulty in doing this cheaply and neatly has meant that only a few tankers use the technique.

"Ground Boss" achieves this at essentially no cost by using the mounting bolts inside the plug. Internal insulating bushes ensure the only electrical path is via the external fastener, i.e. those bolted to the tanker; and the number 10 common earth wire is run from pin 10 to one bolt head and from under the other bolt head via conduit to the probes. 9 and 10 are simply looped together if required. Therefore the only way the tanker can load is by having its tank in good contact with the rack monitor earth.

► Features & Benefits:

- ◆ 3 and 4 bayonet fixing to industry standard
- ◆ 10 pin as standard
- ◆ Conduit ports 1/2" NPT (straight) thread, two options
- ♦ Mounting by 2 stainless steel bolts 8mm dia. via Delrin insulating bushes
- CZ 01 103 3 pin bayonet fastening
- Weight-1.3kg.
- ◆ Aluminium nose-cone, hard anodised
- Stainless steel pins and terminator
- ♦ Made by ShangHai AILE co.ltd



▶ AILE CZ 01 Slot Truck Plua



Plug and Cable Assemblies

► AILE Plugs and Cables are used to connect the AILE ► loading rack control monitor to the vehicle mounted socket. The plugs and cables are the pathway for the control unit/sensor signals which monitor the status of the overfill prevention sensors in the vehicle compartments during loading operations.

Specifications:

Horsepower: 1/5 HP

Voltage: 220V single phase / 380V three phase

Hertz: 50/60Hz RPM: 1450 RPM

Maxinum Capacity: 120 LPM Inlet/Outlet diameter: 3/4 o Ambient Temperature: -35°C to 65°C

► Features & Benefits:

- Extremely rugged design which can withstand harsh environments and mishandling.
- Non-removable socket locator pins fitted directly into the plua housina.
- Permanent socket locator pins that won't loosen or back out.
- ◆ Internal cable retention clamp to prevent cable pull-out or twisting.
- Molded glass-reinforced polycarbonate contact block with positive locator keyways for easy disassembly/reassembly.
- Molded arrow on plug housing for easy visual alignment with socket.
- Stainless steel electrical contact, spring loaded to insure proper contact with the truck socket pins.
- ♦ Virtually indestructible polyurethane plug shell, color coded to match truck sockets.
- Heavy-duty stainless steel strain relief spring prevents the cable from bending or crimping.

► AILE Plug and Cable Assemblies ► AILE AST System Testers





AST System Testers

- Tests Thermistor and Two-Wire Optic Tank Truck Equipment and Thermistor Loading Rack Overfill Prevention Systems.
- When connected to the tank truck equipment via the system. socket, the tester checks each individual thermistor or optic sensor for proper operation. It will also test electronic dummy elements that are used on tank trucks with less than six compartments. The tester verifies correct operation of the above components and indicates faults such as shorted or open wires. It may also be used to determine which compartment(s) are overfilled. There is no need to climb on top of the tank truck and open the hatch(es). Individual sensors may also be tested before installation or after removal. When the tester is connected to the rack equipment it verifies the monitor's operation by selectively testing each channel.

► Features & Benefits:

- Lets you check thermistor and 2-wire optic sensing equipment on the tank truck and thermistor loading rack equipment with just one tester.
- Easy to follow test procedures.
- All operating instructions are directly on the large front and side labels of the tester.
- Lightweight and portable
- Available with a variety of plug styles.
- The AST Tester can be used to check thermistor and 2-wire optic tank truck overfill prevention sensors and thermistor loading rack controls. These stand-alone testers are battery operated. They have an integral plug and socket for making connections to the tank truck vehicle sockets or rack plugs.

ATLE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

Earthing bolt

It is between the Slot Truck Plug and Truck Bracket.To Alle Earthing bolt prevent electric shock and to reduce electrostatic discharge.

► Features & Benefits:

- ◆ Meet International Industry Standard.
- ◆ Mouting by 2 stainless steel bolts, via insulated gasket.
- ◆ Prevent the accumulation of charge, resulting in electrostatic discharge and endanger equipment and personal safety.
- When the equipment chassis of insulation damage .to promote the protection of the power movements and cut off the power.
- It can be shielded enormous electric field.



PCS Pneumatic Control Switch

► AILE 'S purpose designed small, compact and extremely rugged pneumatic control switch for the activation of pneumatically operated valves on petroleum tank trucks. The modular construction is available in different versions to suit any application. It can be used as single version or in multiple-position version to control the tank truck pneumatic system.

► Features & Benefits:

- Small, compact and robust
- Universally applicable
- Simple, trouble-free fitting and operation
- Easy operation due to air pressure-supported pull button
- Emergency control switch is available

► AILE PCS Pneumatic Control Switch



Body: POM Shaft:Brass

Seals: Viton & Buna-N



Ordering Specifications:

Product #	Number of switch	Emergency control
PCS-1	1	NO
PCS-2	2	NO
PCS-2-K	2	YES
PCS-3	3	NO
PCS-3-K	3	YES
PCS-4	4	NO
PCS-4-K	4	YES



AIL Air Interlock

The AIL series Air Interlocks are designed for installation on API Valves, Vapor Recovery Valves, Guardbar Systems. Play it safe with this valve that locks up the brakes on the trailer, preventing it from leaving the loading rack while connected to the loading arm.

This three-way air valve can be used normally open or normally closed, has an adjustable stem, and comes with standardized TTMA and API mounting holes. The anodized aluminum valve s used on all API bottom loading valves and all Vapor Check Valves.

► AILE AIL Air Interlock



AIL-01

► Features & Benefits:

- Mount to API's, vapor valves and safety bars
- ◆ Heat-treated, anodized aluminum construction
- ◆ 1/4 " NPT Connection Ports
- Choice of standard piston end or paddle end (AILE VRV-A
- ◆ Vapor Recovery Valves)
- ◆ Adjustable stroke to accommodate length variations
- ◆ Improved seal design for long term performance & heavy duty plunger tip(AIL-01)

*Paddle end for use with AILE VRV-A Vapor Recovery valves only



AIL-02

ZHF-V Series Of Vapor Check Valve Adaptors

► AILE'S ZHF-V vapor check valve adaptors are used on the ► AILE ZHF-V vapor recovery riser pipes on an underground storage tank. Dual point vapor recovery systems provide an easy and economical installation at new locations and faster drop times than coaxial systems due to a straight 4" drop across the top and vapors collected from 3" or 4" riser pipe.

The vapor check valve adaptor permits coupling to the vapor return line from the underground tank in dual point systems. The poppet design seals off the vapor path when not coupled.

Package:

Net Weight: 1.95Kg/pc Gross Weight: 1.96kg/pc 36.5x48.5x40cm3/ case of 36pc

Ordering Specifications:

product# Connection Threads		SIZE	MATERIAL
ZHF-V-801 NPT 4"Female		4"	Anodized aluminum
ZHF-V-802	BSPT 4"Female	4"	Anodized aluminum

► Features :

- Constructed of anodized aluminum body
- Eliminates digging---Slips into existing drop tubes
- Fits all 4" vapor recovery elbows



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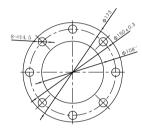
SF-API-B Sightglass Flange:

► SF-API-B Sightglass flanges bolt behind an outlet adaptor to ► Ordering Specifications: show if product is present and its colour to confirm product identification

The standard drilling is TTMA, so the unit will fit behind and API adaptor as well as an AILE HYF-O1 API Bottom Loading Valve. 4" is available.

Product #	Thicknenss
SF-API-B-25	25mm
SF-API-B-30	30mm
SF-API-B-35	35mm
SF-API-B-40	40mm

► AILE SF-API-B





MO-FV Mechanical Operator

► AILE MO-FV Compact Mechanical Operators function cable operated emergency valves from a central location on a cargo tank. Available from 1 up to 5 compartments inpowder coated steel; each compartment is supplied with a fusible link designed to melt at not more than 2500F as well as non-slip cable connectors that allow cable to be cut to length after installation.

Ordering Specifications:

product#	No.of Compts	Weight(lb)	Wide(inch)
MO-FV-1	1	7.1	4.2
MO-FV-2	2	9.5	4.2
MO-FV-3	3	12.7	7.75
MO-FV-4	4	15.1	7.75
MO-FV-5	5	17.5	7.75

► Features :

- Compact Design
- Powder Coated Steel
- ◆ Lever arms provide 2-3/8" stroke and 5.6:1 mechanical
- ◆ Two trip levers provided for flexibility in locating cable remote controlor for attaching two remotes
- Solid Handles
- Non-Lubricated Stainless Shaft

► AILE MO-FV



SYWG-01 Delivery Elbow

► AILE 'S Dual Point Systems Liquid Delivery ELBOWS This durable product Elbow was designed for those deep tank burial applications and has a high flow rate to the unrestricted flow pattern.lt fits all 4" top seal adaptors.lt can also be ordered with a variety of different adaptors to meet any requirements. Its single four bolt flangedesign allows for easy replacement of adaptors over competitive threaded styles, and is designed for extremely easy on and off coupling due to brass alloy locking cams.

Package:

Net Weight: 6Kg/pc Gross Weight: 7.52kg/pc 54 x33 x24 cm3/ case of 1pc

Ordering Specifications:

Product #	Connection Threads
SYWG-O1-801	4"male cam and grove
SYWG-O1-802	NPT4"Thread male
SYWG-O1-803	BSPT4"Thread male

► Features & Benefits:

- Light weight cast aluminum
- ◆ Two-piece modular construction: upper half replaceable
- Fits all 4" top seal adaptors
- Protective base shield
- Unique cam locking handle for easy on/off coupling
- Exclusive Spring Link design reduces coupling linkage damageand alerts operator when elbow isn't properly seated.

AILE SYWG-01



SYWG-E1 Series Of Delivery Elbows

This Delivery Elbow was design for those Deep Tank Burial applications and a high flow rate due to the unrestricted flow pattern. It fits 4" top seal adaptors. It can also be ordered with a variety of different adaptors to meet any requirements. Its single four bolt flange design allows for easy replacement of adaptors over competitive threaded styles, and is designed for extremely easy on and off coupling due to aluminum bronze alloy locking cams.

► Technique Specifications:

Net Weight: 5.80kg/pc Gross Weight: 6.50kg/pc 54x33x24 cm3/ case of 1pc

Ordering Specifications:

Product #	Connection Threads
SYWG-E1-504	4"Male cam and groove
SYWG-E1-604	4" Male-NPT thread
SYWG-E1-704	4"Male-BSPT thread

► Features & Benefits:

- ◆ Light weight Cast Aluminum
- ◆ 4" Male NPT/BSP. Male cam and groove
- Fits all 4" top seal adaptors
- Protective base shield
- It includes sight glass which allow the operator to see whether or not product is flowing

► AILE SYWG-E1



ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

SYWG-V Dual Point Vapor Recovery Elbows

This durable cast aluminum elbow ensures complete vapor recovery for dual point systems, and can be ordered with a variety of different adapters to meet any requirement. The simple four bolt flange design allows for easy replacement of adapters over competitive threaded styles. Its low profile design allows for convenient storage and the specially designed guick grip one hand operation handle allows for easy on and off attachment.

Package:

Net Weight: 6Kg/pc Gross Weight: 7.52kg/pc 54 x33 x24 cm³/ case of 1pc

Ordering Specifications:

Product #	Connection Threads
SYWG-V-201	3" Male cam and groove
SYWG-V-202	4" Male cam and groove

Features & Benefits:

- Cast aluminum
- · Compact, low profile design
- Four bolt flange pattern
- Protective base shield

AILE SYG-T Composite Tank Truck Drop Hose

AILE manufacture a full range of composite hoses by utilizing hoses by utilizing special materials, with steel (and/or stainless steel) wires on both sides of the hoses to add strength. Combining with our proprietary, state of the art manufacturing equipment. The materials that were selected all have excellent resistance to most corrosive chemicals and hydrocarbon. The operating range of our products are from minus 30-degree to 80-degree Celsius. Composite hoses are light, safe, strong, oil and chemical resistant, thus could replace tradition rubber and metal hoses.

Materials:

Inner Tube: Polypropylene Films Cover: Blue, PVC Coated Fabric

Reinforcement: Steel Helix

Inside: Galvanized Steel Outside: Galvanized Steel

Ordering Specifications:

Diam	ieter	Working Bursting		Bending Max Wei		Weight
I.D (mm)	O.D (mm)	Pressure bar	Pressure bar	Radius mm	Length meter	kg/m
25	37	10	40	65	30	0.76
32	43.5	10	40	70	30	0.92
38	51.7	10	40	100	30	1.29
50	62.5	10	40	180	30	1.78
65	78.5	10	40	220	30	2.82
76	90	10	40	280	30	3.13
100	121	10	40	340	30	5.94
Hose couplings: According to customers' need						

▶ AILE SYWG-V



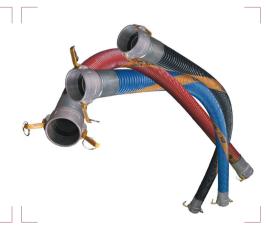


4"Male cam and groove



3"Male cam and groove

▶ AILE SYG-T



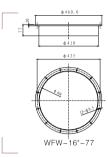
25 www.aile-fc.com

ATTE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

Manhole Mounting Flanges and Weld-skirt

▶ Supplied by AILE in aluminium or steel. Manhole Mounting Flange and Weld-skirt is used for rounded AILE 20" Manhole, which will be welded with a 12mm thickness of Flanges and a height of 200mm skirt.

► AILE Manhole Mounting Flanges and Weld-skirts





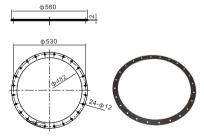


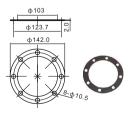


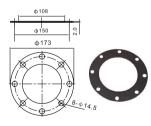
Cork Sealing Gaskets

- ▶ 1) FV-A Cork Sealing Gasket: Made of Cork and used for FV-A Emergency Valve.
 - 2) Manhole Cork Sealing Gasket: Made of Cork and used for 20" Manhole.
 - 3) Bottom Loading Adaptor Cork Sealing Gasket: Made of Cork and used for API Bottom Loading Valve.
 - 4) REV-I Cork Sealing Gasket: Made of Cork and used for REV-I Vapor Vent Valve.

► AILE Cork Sealing Gaskets







For REV-I Vapor Vent Valve For 20" Manhole

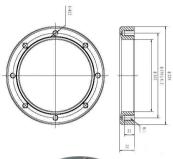
For API Bottom Loading Valve & FV-A Emergency Foot Valve

ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

The Flange For Valves

- ▶ Flange used to conjoin the tank of the tank truck and ▶ Aile SQG Vapour hose for use be tween the vapour vent bottome loading valve.
 - and the pipe.
- ► AILE The Flange For FV-A Emergency Foot Valve ► AILE SQG Vapour Hose

Aile SQG Vapour Hose







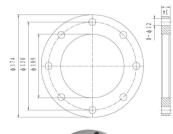




Blockage cover for manholes

► AILE Flange for Bottom Loading Valve

► AILE Blockage cover for manholes





For REV-I Vapor Vent Hole





For Probe Hole



SHANGHAI AILE PETROLEUM **EQUIPMENT** MFG.CO..LTD.

Vapor Recovery System Products





ALL SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

ZYQ-200 Series Of Vapour Recovery Nozzles

► AILE ZYQ-200 series of vapour recovery nozzles are suitable for full electronic vapour/volume control dispensers. The fuel-despensing nozzle with an automatic safety shut off for wet-hose use with electrical operated petrol dispensing pumps for the 'active' vapour recovery. Each nozzle has been subject to stringent tests before leaving the factory and validated by the applied markings and date code. AILE ZYQ-200 is supplied for connecting to the AILE-SSI hose.

Materials:

Body: aluminium alloy Seals: viton SPOUT: brass with nickel coated GUARD: aluminium of PA66 Lever: electrophoresis coated Covers: Soff PVC

Package:

Net Weight: 1.8 kg/pc Gross Weight: 2 kg/pc 55x34x32.2cm3/Case of 10pc

Ordering Specifications:

Product #	Inlet thread	Outlet diameter	Material Of Lever-guard	Type of vapour valve
ZYQ-200A-801	NPT M34X1.5 female	13/16"	Pa66	with vapour proportional valve
ZYQ-200A-802	NPT M34X1.5 female	13/16"	Aluminum	with vapour proportional valve
ZYQ-200B-803	NPT M34X1.5 female	13/16"	Pa66	N/A
ZYQ-200B-804	NPT M34X1.5 female	13/16"	Aluminum	N/A
ZYQ-200C-805	NPT M34X1.5 female	13/16"	Pa66	with vapour "on/off" valve
ZYQ-200C-806	NPT M34X1.5 female	13/16"	Pa66	with vapour "on/off" valve

Warning:

Features & Benefits:

Using foreign objects to hold open automatic nozzles could result in failure to shut-off and personal injury.

◆ APPLICATION: For all normal gasoline fuels - leaded of

unleaded. Not suitable for water and hydrous liquids.

shut-off +safety (protection when tilting and falling) +

motor car refueling up to 45L/min, with Vapour recovery

for working pressure from 0.5bar up to 3.5bar, at ambient

alcohols, solvents, viscous oils and diesel fuels.

◆ EQUIPMENT: TRISTOP=venture controlled automatic

optionally with pressure controlled safety shut-off. ◆ SPECIFICATION: Automatic nozzle ZYQ-200 series for

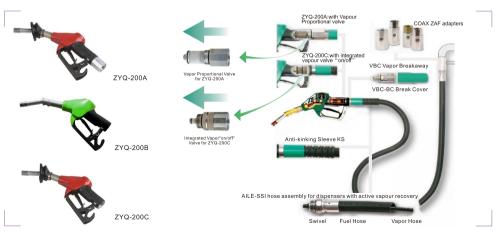
AVAILABLE COLORS: Red. Yellow, Blue, Green, Black.

hold-open mechanism means easy setting of flow rate

◆ THREE POSITION HOLD-OPEN DEVICE: control of

temperatures from -20°C up to +55°C.

► AILE ZYQ-200 Series



AILE-SSI Vapor Hose

the dispenser pulls the gasoline vapors away from the vehicle fill pipe during fueling. Wire braid construction provides excellent kink resistance and low computer

► Features & Benefits:

- ◆ TUBE: Nitrile synthetic rubber (ORS)
- ◆ COVER: Chemivic synthetic rubber (ORS), thermoplastic outer with textile reinforcement and wire helix
- ◆ REINFORCEMENT: Braided (1) steel wire
- ◆ TEMPERATURE: -40° F to 140° F (-40° C to 60° C)



Available hose colours: black, green, blue, vellow, red. Low Temperature (LT) versions available Low Temperature Bending Force / Flexibility:

With increasing cold petrol pump hoses become stiffer and more difficult to handle, particularly when they are empty or filled with Diesel which causes little swelling. When filled with gasoline the swelling of the tube acts as plasticizer improving the cold flexibility.

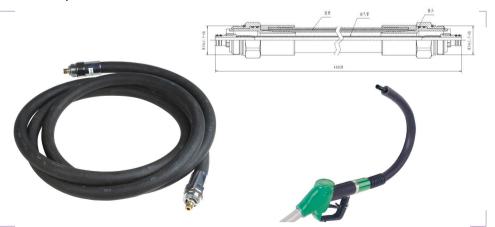
The EN 1360 specifies that a new petrol pump hose must not require a higher bending force than 180 N when bending the hose at - 30° C in a normed device. Our standard qualities regularly require clearly lower bending forces."GOOD YEAR" hoses ("Low Temperature") are cold flexible up to - 40° Celsius. They meet all requirements of EN 1360.



Ordering Specifications:

Product #	Inlet thread	Outlet diameter	Length	Hose by
YQJG-36	M34 X 1.5	M34 X 1.5	36CM	Good Year
YQJG-400	M34 X 1.5	M34 X 1.5	400CM	Good Year
YQJG-500	M34 X 1.5	M34 X 1.5	500CM	Good Year
YQJG-600	M34 X 1.5	M34 X 1.5	600CM	Good Year

AILE SSI Vapor Hose



ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

YQLD-01 COAX Safety Break

against drive-off incidents. For assembly between vapour recovery nozzle and COAX hose assembly. Separates at axial or angular pullof forces less than 150 kg.

Again and again motorists leave the nozzle inserted in the filler neck of their cars when pulling off the forecourt.

Most drive-away incidents are not published - but they happen every day, due to absentmindness, rush - e. g.after a petrol theft, and occasionally vandalism.

AILE COAX break-away couplings prevent dispensers from being pulled over and fuel spills. In other words: They save costs.

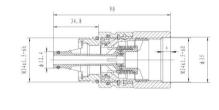
Materials:

Body: aluminium allov Seals: viton

► Features & Benefits:

- ◆ INTEGRATED SWIVEL: The AILE COAX Safety Breaks have an integrated swivel which substitutes the standard swivel. This saves costs, and there is only a minimal increase in weight and size of the nozzle.
- ◆ OPTIMAL FIT FOR THE ZVA SYSTEM: AILE COAX Safety Breaks are well suited to our ZYQ-200 Vapor nozzles, as they maintain the excellent flow rates. A large number of thread connections are available.
- ◆ NO THROWAWAY MENTALITY: Our Safety Breaks are reusable. After a separation the coupling can be re-assembled by qualified service personnel.
- EASY INSTALLATION: Existing dispensers without Safety Breaks can be easily retrofitted.

► AILE YOLD-01 COAX Safety Break





ZYQ-200 Vapor Proportional Valve

ZYQ-200 Vapor Proportional Valve is used for AILE ZYQ-200A Vapor Recovery Nozzles. It's easiled to adjust vapor recovery rate.

AILE SSI Vapor Hose



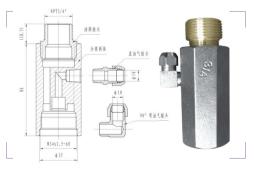
YQFL-01 COAX adaptor

AILE YQFL-01 COAX adaptor (splitter valve) for petrol pumps.it'is a cast aluminum hose adapter used to connect a non vapor-ready gasoline dispenser to a coaxial Healy stage II vapor recovery hose. It has tapered BSPT threads on the inlet and straight threads on the outlet side.

Ordering Specifications:

Product #	Inlet thread	Outlet diameter	Material
YQFL-01-801	NPT 3/4"	M34 X 1.5	Aluminum
YQFL-01-802	NPT 1"	M34 X 1.5	Aluminum
YQFL-01-803	BSPT 3/4"	M34 X 1.5	Aluminum
YQFL-01-804	BSPT 1"	M34 X 1.5	Aluminum

► AILE YQFL-01 COAX adaptor



VRP-76L Dispener Mounted Vacuum Pump For Stage | Vapor Recovery

▶ VRP-76L dispenser mounted vacuum pump able to operate with all type of nozzle, hose, breakaway and adapter.

Benefits:

- Easy mount in all type of dispenser
- Driven by suction type dispenser motor
- No electronic parts
- Durable & high efficiency
- Less maintenance cost
- Able to handle 2 nozzles in simultaneous
- Compatible to all vapor recovery system
- Full service parts support
- ◆ Designed for UL and ATEX standard

Specifications:

Efficiency: 1/8 HP RPM: 1800 rpm Capacity: 80 LPM Inlet/ outlet dia: 1/2 4

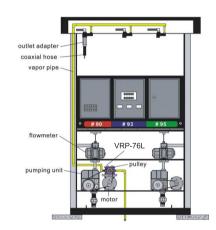
Temperature Range: -35°C to 65°C

► Installation Instruction:

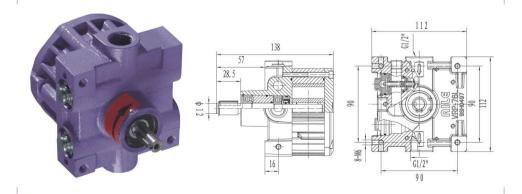
One pupm is required to mout on a bracket and attached on the frame of the dispenser. Calculation is required to work out the dimension of pulley for VRP-76L pump.It is then driven by a belt eatended form dispenser motor and fuel pumping unit. Diameter of vapor pump pulley related to speed and pulley size of dispenser motor.VRP-76L pump will give you optimum performance of vacuum 90" W.C. At 1800 rpm. Therefore to work out diameter of VRP-76L pulley will be 1800 rpm divided by rpm of motor and multiply the diameter of motor pulley.

► Features:

- High durability as it has cast iron casing and able to work under extreme tough condition in various temperature and climate; mishandling,last long running without lubricant.
- ◆ Simple and easy installation driven by pulley & belt and powered by motor form dispen ser.
- One pump one dispenser to give you maximum capacity and efficiency.
- Easy for maintenance and big saving for long term.
- No electrical and electronic parts.
- Simple mechanism using only vane and rotor to pull vacuum and minimize cost of spare parts.



AILE VRP-76L





ATLE SHANGHALAILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

DR-030 Dispener Mounted Vacuum Pump For Stage | Vapor Recovery

▶ DR-030 dispenser mounted vacuum pump able to operate with all type of nozzle, hose, breakaway and adapter.

Benefits:

- Easy munt in all type of dispenser
- Driven by AC electric motor in single phase and three phase power supply
- No electronic board or control device require
- Full aluminum die casting construction
- Durable & high efficiency
- Less maintenance cost
- ◆ Able to handle 3 nozzles in simultaneous
- Compatible to all vapor recovery system
- ◆ Full service parts support
- Designed for UL and ATEX standard

Specifications:

Horsepower: 1/5 HP

Voltage: 220V single phase / 380V three phase

Hertz: 50/60Hz RPM: 1450 RPM

Maxinum Capacity: 120 LPM Inlet/Outlet diameter: 3/4 o Ambient Temperature: -35°C to 65°C

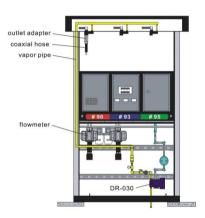
Installation Instruction:

One pump isrequired to mount on a bracket and attached on the frame of the dispenser. Wiring direct connect to power supply in conjunction with nozzle hook signal to turn on the motor. A simple circuit board with relay control to handle the nozzle hook up signal is required.

DR-030 pump will work at optimum Vacuum level 90" W.C. and will produce max capacity of vapor return in 120 lpm when dispenser operating 3 nozzles in simultaneous.

▶ Features:

- High durability as it is a full aluminum die cast construction and able to work under extreme tough conditions in various temperature and climate: mishandling, last long running without lubricant.
- Simple and easy installation driven by A/C power in 1phase 220V or phase 380V. One pump one dispenser to guve you maximum capacity and efficiency.
- Easy for maintenance and big saving for long term.
- No external electrical and electronic parts.
- ◆ Simple mechanism using only vane and rotor to pull vacuum and minimize cost of spare parts.



▶ AILE DR-030



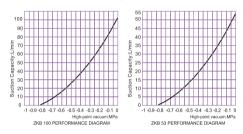


VRVP Vapor Recovery Vacuum Pump

- ► AILE brand VRVP Series gasoline vapor recovery vacuum ► Features: pump is a relatively consummate pump for gasoline vapor recovery system, it can work between the temperature of minus 40 degrees and 60 degrees, and can be used alone or as a part of the system in gas stations. In the Gasoline vapor recovery system, the pump is mainly used for collecting gasoline vapor so to lower the pollution and save resources. As the environment pollution goes from bad to worse and the requirement for efficient use of resources increases persistently, gasoline vapor recovery vacuum pump will be used extensively in this area.
- ▶ Electrical connection of appliance with 3~electrical motor



Note: There are 4 wires in 4 colors in ZKB-100 and ZKB-53 1) The Blue, Black, Brown wires connect for 380 Voltage power. 2) The Kelly one connects the ground.



- The characteristics of VRVP Series gasoline vapor recovery vacuum pump as follows:
- There fixed a pump shaft that is driven by the electromotor and is connected by a brace to a pole that link to a piston which can move up and down freely in a bush inside the pump.
- Above the piston, there is a seat assembly which includes a non return inlet valve and outlet valve for the gasoline vapor. and the above mentioned valves are linked to the pump inlet and outlet chamber respectively. What we need to do is to connect the pump inlet chamber with a pipe to the vapor recovery adapter, and connect the adapter to the refueling nozzle with a soft, double wall tube.

Ordering Specifications:

Model	VRVP-100	VRVP-53
Power (w)	370	370
Suction Capacity (L/m)	100	53
Vacuum Pressure (Mpa)	-0.09	-0.09
Rotation Speed (RPM)	2800	2800
Voltage (V)	$380\pm10\%$	$380\pm10\%$
Weight (KG)	18	15
Dimension (mm)	450x163x205	310x163x205
Ex Marking	Ex dIIAT3	Ex dIIAT3
Ex Certificate Number	GYB081008	GYB081008

▶ AILE VRVP





ATLE SHANGHAI AILE PETROLEUM EQUIPMENT MFG.CO.,LTD.

Our Sincerely and innovated service, Throughout the word.



Let AILE march to the world and be known by the same.