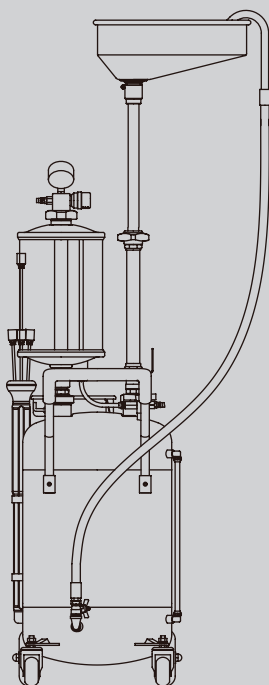




高耐腐量杯式废油抽接机
Oil Collecting Machine With Measuring Cup

AE5701A



使用说明书 \ User's Manual



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感谢您购买我司的气动抽接废油机

使用产品前，请仔细阅读安装使用说明书，并按照说明书的使用说明进行操作。

安装使用说明书中的注意事项以及使用方法请认真阅读遵守，避免发生人身安全事故。

对购买的产品和安装使用说明书内容有疑问时，请与销售商联系。

请小心保管产品使用说明书和警告标签。如果丢失、污损，请立即联系销售商，并正确粘贴。

警告

在本安装说明书中，关于【危险】、【警告】、【注意】含以下定义并用于警告示意作用。

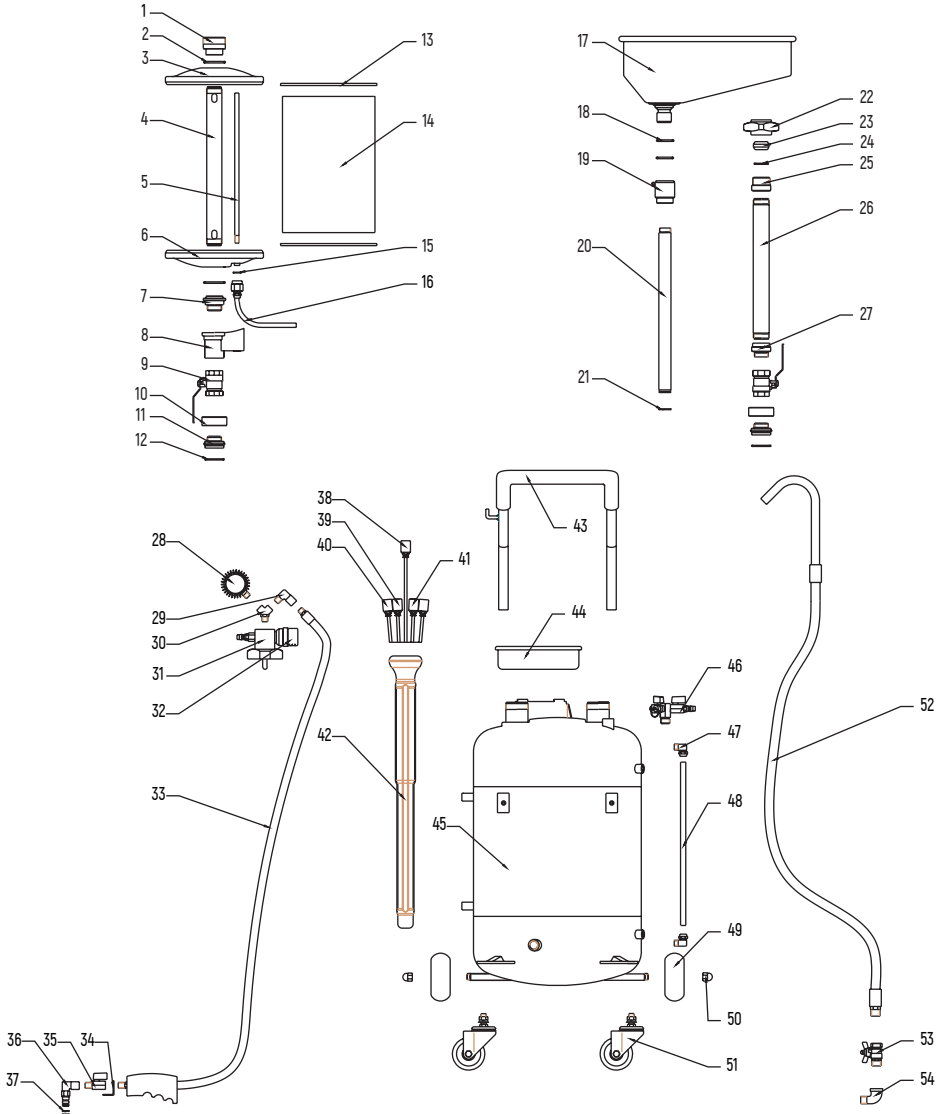
【危险】【警告】表示是针对安全操作的重要提示。

以避免人身事故以及财产损失，标明了重要的事项，请务必理解清楚后使用。

【注意】安装操作有误时，有可能导致使用者负伤或物品损坏。

第一章 产品简介

我公司生产的气动抽、接油系列产品，采用压缩空气为动力源，特别适合于有防爆等要求的场所作业。整机密封性好，抽接油功能可靠。操作方便，量杯材质具有高强度和耐腐蚀性，产品采用偏心接油盘，增大接油区域面积。抽油时必须针对不同型号的汽车、机械设备的油箱注油孔孔径选用相应管径的抽油管，直接从油箱内抽取废旧油。



AE5701A 抽接油机零件明细表

序号	零件编号	零件名称	材料 / 牌号	数量	序号	零件编号	零件名称	材料 / 牌号	数量
1	PAE5701-20	上压盖螺母	20# 钢	1	30	PAE5701-43	三叉接头	黄铜	1
2	PAE5701-21	O 型密封圈	丁腈橡胶	2	31	PAE5701A-12	发生器组件	组件	1
3	PAE5701A-1	上压盖	ST12 钢	1	32	PAE5701A-13	消声器	塑料	1
4	PAE5701A-2	中心油管	20# 钢	1	33	PAE5701A-14	抽油管	组件	1
5	PAE5701A-3	金属气管	20# 钢	1	34	PAE5701-38	抽油挂钩	ST12 钢	1
6	PAE5701A-4	下压盖	ST12 钢	1	35	PAE5701-37	球阀	黄铜	1
7	PAE5701A-5	下压盖螺母	20# 钢	1	36	PAE5701-36	抽油弯头	组件	1
8	PAE5701A-6	塑料罩壳	塑料	1	37	PAE5701-35	O 型密封圈	丁腈橡胶	2
9	PAE5701-16	球阀	黄铜	2	38	PAE5701-52	Φ6*920 针管组件	组件	1
10	PAE5701-17	螺母连接件	20# 钢	2	39	PAE5701-50	Φ5*720 针管组件	组件	1
11	PAE5701-18	底座内圈	20# 钢	2	40	PAE5701A-15	Φ6*720 针管组件	组件	1
12	PAE5701-19	O 型密封圈	丁腈橡胶	2	41	PAE5701-53	Φ8*720 针管组件	组件	2
13	PAE5701A-7	密封圈	丁腈橡胶	2	42	PAE5701-48	抽油针管套筒	塑料	1
14	PAE5701A-8	透明杯体	高硼硅	1	43	PAE5701A-16	扶手组件	组件	1
15	PAE5701A-9	O 型密封圈	丁腈橡胶	1	44	PAE5701-57	工具箱	塑料	1
16	PAE5701A-10	气管连接组件	组件	1	45	PAE5701-58	储油罐	组件	1
17	PAE5701-5	接油盘	ST14 钢	1	46	PAE5701A-17	进气组件	组件	1
18	PAE5701-6	O 型密封圈	丁腈橡胶	2	47	PAE5701-64	油井弯头	黄铜	2
19	PAE5701-7	连接螺母	20# 钢	1	48	PAE5701-63	液位管	塑料	1
20	PAE5701-8	内升降杆	20# 钢	1	49	PAE5701-60	定向轮	组件	2
21	PAE5701-9	卡簧	锰钢	1	50	PAE5701A-18	螺母	A3 钢	2
22	PAE5701-10	锁紧螺母	塑料	1	51	PAE5701-59	转向轮	组件	2
23	PAE5701-11	锁紧圈	塑料	1	52	PAE5701-47	排油管	组件	1
24	PAE5701-12	O 型密封圈	丁腈橡胶	1	53	PAE5701-46	球阀	黄铜	1
25	PAE5701-13	连接接头	20# 钢	1	54	PAE5701-45	排油弯头	铸钢	1
26	PAE5701-14	外升降杆	20# 钢	1	55	PAE5701A-A01	量杯总成		
27	PAE5701-15	连接接头	20# 钢	1	56	PAE5701A-A02	真空发生器总成		
28	PAE5701-44	真空表	Y50 径向	1	57	PAE5701-A03	升降杆总成		
29	PAE5701A-11	直角弯头	黄铜	1					

产品结构和组件结构示意图：



量杯总成：



第二章 使用目的

- 本产品用于接收与抽取汽车或机械设备油箱内的废油，当罐体内废油达到相应位置时停止抽接油，最后从罐体下方的排油管中排出。

第三章 危险、警告事项

- 警告标签的粘贴位置以及内容（见产品罐体上警示标贴）
使用气动抽接废油机时，请按照使用说明书上所注明的安全事项进行操作。
如果安装使用说明书丢失或警告标签剥落、污损、请务必与销售商联系。
- 危险-警告事项

	<p>禁止分解 因本产品利用真空压力工作，各部分严格密封，如果随意分解将导致本设备无法工作或引发安全事故。</p>
	<p>请在理解清楚产品使用说明书后，再使用 如操作有误，有可能会发生意外伤害事故。</p>
	<p>油阀开关标：加气排油时或罐体内有气压时，请关闭量杯球阀！</p>

第四章 产品的安装

- 将推把插入罐体固定环内，紧固顶丝即可
- 将承重轮插入轮轴上，紧固螺母，将方向轮插入安装孔中，锁紧螺母
- 将升降管总成装入罐体安装孔中，锁紧游轮，锁紧螺母，将接油盘插入升降管总成内，到位后用螺丝刀锁紧限位螺钉
- 将量杯总成装入罐体安装孔中，锁紧金属游轮，连接量杯下面通气软管与罐体上的通气球阀，锁紧接头
- 将真空发生器插入量杯上盖的中心孔中，锁紧螺母
- 将探针管总成插入罐体安装环中，将工具箱安装在罐体安装座上

第五章 抽油使用方法

工作原理：利用空气压缩原理，使用特殊设计的真空发生器装置，同时将透明量杯和储油罐内抽真空，产生一定程度的真空压力差，通过抽油管，将机油抽进透明量杯或储油罐内。然后，在外界空气压力的作用下将罐内废油陆续排到废油收集容器内。

- 抽真空
 - a. 将透明量杯抽真空
 - 关闭所有球阀。（共6个球阀）
 - 将经过净化的气源快速接嘴接到真空发生装置前进风嘴处，压缩空气通过真空发生装置对透明杯抽真空；
 - 抽真空过程中，仔细观察真空表指针，当指针到达红色刻度区域，之后，切断气源，完成对透明量杯的抽真空操作。在工位旁有气源的情况下，可以边抽真空边抽油。（热机油不可以边抽真空边抽油）
 - b. 将量杯与储油罐一起抽真空
 - 打开量杯下部软管与罐体四通接头连接通气球阀，关闭其它所有球阀，按照上面步骤操作，即可完成对量杯与储油罐一并抽真空。
- 抽油
 - a. 将本设备移动到需抽油的汽车或机械设备旁，根据需抽油设备的抽油口实际尺寸及其结构，选择合适的抽油针管，插到抽油接口处
 - b. 将抽油针管插入待抽的油内部，开启抽油把手处球阀，油品将陆续被抽到透明量杯内，抽油完成后及时关闭抽油管球阀。

第六章 接油使用方法

- 将设备放置在适当位置，调节升降杆至适合的高度，转动偏心接油盘于放油口下方，打开升降管球阀，拧开油箱底部螺母，开始放油，将接油盘内的油放入储油罐内
- 等到放油完成后，及时关闭升降管球阀，然后移开设备。

第七章 排油使用方法

- 将量杯内所收集的废油排入罐体打开量杯下部球阀，透明量杯内油品将陆续排到储油罐内；
- 将储油罐内的油品排到收集容器内
 - a. 自然排油：关闭储油罐下方排油弯头处球阀，打开其它所有球阀，让罐体内部与外部空气相连，将排油弯管出油口挂到废油收集容器内，打开罐体下部排油弯头处球阀，在大气压力作用下将废油陆续排到收集容器内（排油弯管出口处一定要低于罐体内液面）
 - b. 加压排油：关闭量杯下面球阀，量杯下面软管与罐体四通接头连接球阀和升降杆球阀，抽油管前端球阀，将排油管挂于废油收集容器内，打开排油弯头处球阀，打开进气球阀，在罐体进气嘴处接入 0.5bar 压缩空气，使压缩空气进入罐体，在压缩空气作用下，储油罐内废油将陆续被排到废油收集容器内。（罐体内的压力，超过 1bar 时，安全阀自动打开，此时，切断气源）。

排油时，请握紧排油管弯钩或固定排油管弯钩。

第八章 检查事项

工作前检查

- 每天工作前，按照上述抽真空方法，对量杯和罐体进行抽真空，然后仔细观察真空表指针的变化，辨别各部件组装处是否有漏气情况发生。如有请联系销售商解决，以免造成财产损失或人身事故。
- 注意：抽真空过程中，观察真空表指针，当指针到达红色刻度区域，切断压缩空气进气源，完成抽真空操作。

定期检查

- 漏气检查
- 漏油检查
- 请确认软管接头金属零件是否损坏、变形、磨损以及是否有污渍。
- 注意：关于定期检查，建议利用专业人员的完整的检查制度。详细情况请咨询销售商。

完工检查

- 作业结束后，将本产品各部位上粘着的污渍（水、杂物、油等）擦拭干净。如发现异常时，立即联系销售商。

注意

- 检查上的注意事项

1. 工作前及定期检查，请一定按使用说明书的内容实施；
2. 不要将本产品用于与抽接废油无关的用途。

- 使用上的注意事项

1. 严禁本产品与火或腐蚀性液体接触；
2. 使用时不要超出常用压力范围。

第九章 常见故障及处理

在断定为故障前，请仔细阅读使用说明书，并对照下列检查事项。如仍然处于异常状态中，请联系销售商。

故障	原因	处理方法
真空度达不到	气压不足	调节气流压力使之达到指定压力
	有的球阀未关闭	按要求关闭相关球阀
	量杯或接头漏气	检查各连接处是否松动
	真空表损坏	联系销售商更换
	真空发生器损坏	联系销售商更换
抽油速度慢	真空不足	待真空达到指定数值时再使用
	有漏气现象	与销售商联系，在指导下判断漏气部位

第十章 注意事项

- 排油时使用的空气压力为 0.5bar；
- 量杯尽量不要集油太满 (9L 以下) 。
- 当量杯内或罐体内真空压力不足，抽油速度减慢时，可将量杯或罐体抽真空后继续抽油；
- 完成排油工作后，罐体下部排油管弯头处球阀必须关闭；
- 对本设备外部的清洁，只能用柔软的抹布和中性清洁，切勿用硬物抹擦或带腐蚀性的和易燃性的液体接触机器表面；
- 使用时，如机器出现异常故障，请速与销售商或厂商联系。

第十一章 产品的保修规定

保修规定

- 在保修期内，并且在完全遵守安装使用说明书、标签上的注意事项进行操作的情况下发生故障时，本公司有责任进行无偿修理、调换部件以及寄送更换部件。
- 在下列情况下发生的故障，不属于保修范围之内。
 1. 因使用不当、检查、保管等工作疏忽，而发生的故障及损坏。
 2. 因随意变更（改造），对产品的构造产生不良作用，因此产生的故障及损坏。
 3. 发生因消耗品自然损耗而需要更换的情况。
 4. 火灾、地震、风灾水害、其它不可抵抗的外部原因引起的故障及损坏。
 5. 因使用非指定的部件引起的故障及损坏。
 6. 因安装操作的原因产生的故障及损坏。
 7. 使用中，抽取或接触过天那水、香蕉水、醛类、酮类等强腐蚀性溶剂。

另外，用于本产品以及其它附件的软管、O型密封圈、橡胶部件等属于自然消耗品，不属于保修范围之内。

保修申请方法

根据上記规定，申请保修请联系销售商。销售商负责必要手续的办理。

另外，保修的一些具体情况，由本公司决定。敬请合作谅解。

售后服务

状况不良时，请参照安装使用说明书中〔故障和处理〕项

状况仍不良，根据产品保修规定，请委托销售商负责修理。

保修期内的修理，保修期为1年，根据产品保修规定提供免费修理。

保修期后的修理，请与销售商商谈

如经修理仍能保持产品机能，满足用户要求提供有偿修理。

关于售后服务详细情况，如有其它不清楚的问题，请咨询询问销售商。

联系时，请告之以下事项。

型号、主机号码（制造号码），购入年月日、故障状况（尽可能详细）。



Thank you for buying our pneumatic pumping waste oil machine.

Before using the product, please read the installation instructions carefully and operate according to the instructions.

Please read the instructions carefully to avoid personal safety accidents.

If you have any questions about the purchased product or installation instructions, please contact the seller.

Please take care of the product instructions and warning labels. If it is lost or defaced, contact the seller immediately and paste it correctly.

Warning

In this product manual, the following definitions are contained in [danger], [warning] and [caution] are used for warning.

Danger [Warning] Indicates an important warning for safe operations to avoid personal accidents and property losses, important items are marked, please be sure to understand the use.

[Attention] Incorrect installation operation may lead to user injury or damage.

Chapter I Introduction

The waste oil collecting and draining machine manufactured by our company is using Compressed air as Power source, it's suitable to use in the Workplace of anti-explosion.

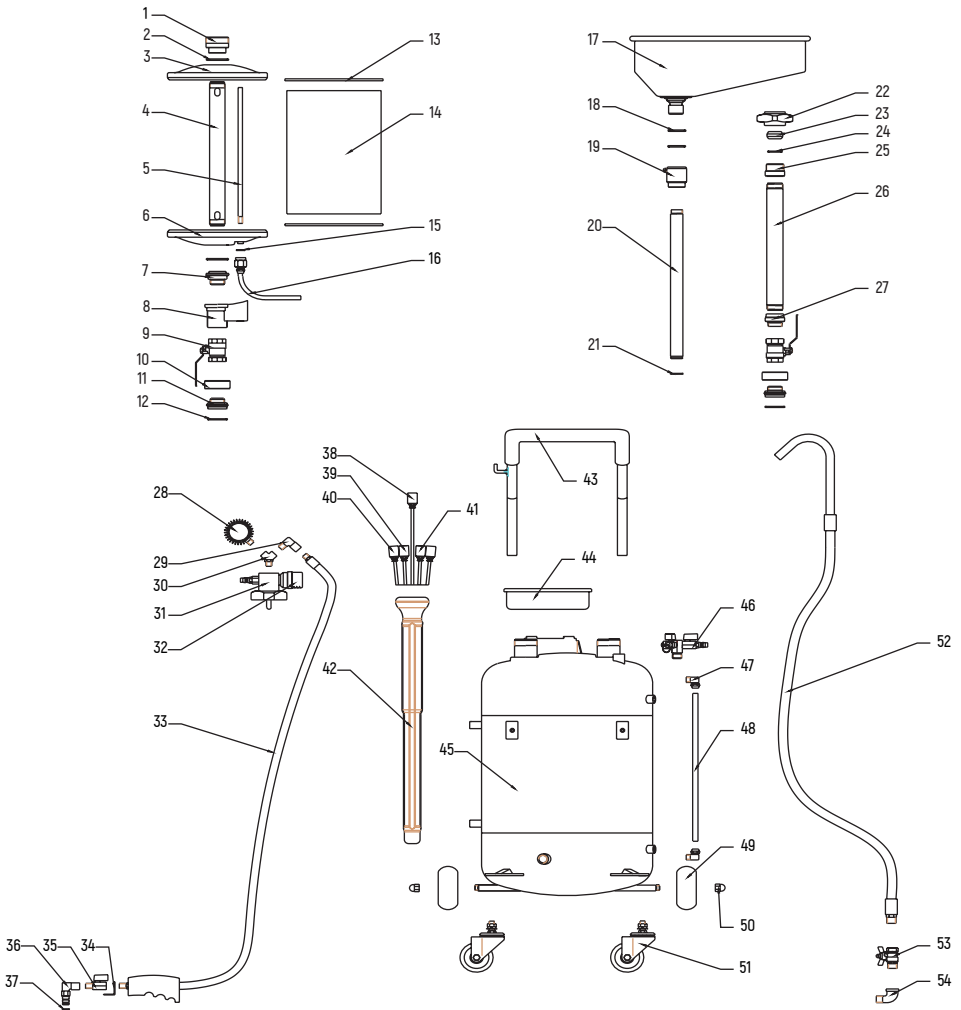
Our product is with excellent sealing property, with reliable functions of collecting and draining oil.

The extending rod has two joints, much easier for operating.

Measuring cup is with strong material and anti-corrosion.

The special design of eccentric oil pan makes the scope of collecting machine larger than before.

Attention: Please according to the type of your car / Machinery / Equipment, to choose the right diameter of probe tube when you use the machine to drain oil directly from the tank.





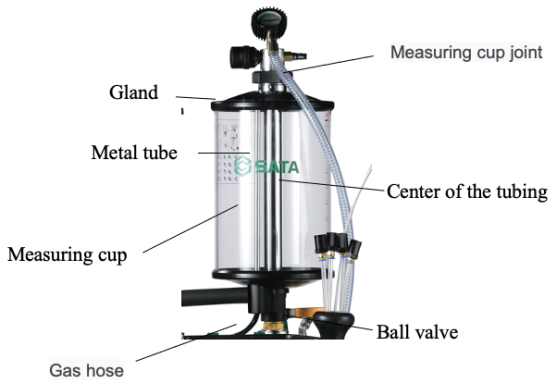
AE5701A List of parts of oil collection machine

Item	P/N	Description	QTY	Item	P/N	Description	QTY
1	PAE5701-20	Gland nut	1	30	PAE5701-43	Trigeminal joint	1
2	PAE5701-21	O Type sealing ring	2	31	PAE5701A-12	Vacuum generator	1
3	PAE5701A-1	Gland	1	32	PAE5701A-13	muffler	1
4	PAE5701A-2	Center of the tubing	1	33	PAE5701A-14	Oil pipeline	1
5	PAE5701A-3	Metal tube	1	34	PAE5701-38	Sucker hook	1
6	PAE5701A-4	Gland	1	35	PAE5701-37	Ball valve	1
7	PAE5701A-5	Gland nut	1	36	PAE5701-36	Pumping elbow	1
8	PAE5701A-6	Plastic housing	1	37	PAE5701-35	O Type sealing ring	2
9	PAE5701-16	Ball valve	2	38	PAE5701-52	Φ6"920 oil pipeline	1
10	PAE5701-17	Nut connector	2	39	PAE5701-50	Φ5"720 oil pipeline	1
11	PAE5701-18	Base circle	2	40	PAE5701A-15	Φ6"720 oil pipeline	1
12	PAE5701-19	O Type sealing ring	2	41	PAE5701-53	Φ8"720 oil pipeline	2
13	PAE5701A-7	Sealing ring	2	42	PAE5701-48	Tubing sleeve	1
14	PAE5701A-8	Transparent cup body	1	43	PAE5701A-16	Armrest component	1
15	PAE5701A-9	O Type sealing ring	1	44	PAE5701-57	Tool box	1
16	PAE5701A-10	Gas pipe connection assembly	1	45	PAE5701-58	Oil tank	1
17	PAE5701-5	Oil drip pan	1	46	PAE5701A-17	Inlet component	1
18	PAE5701-6	O Type sealing ring	2	47	PAE5701-64	Square bend	2
19	PAE5701-7	Nut connector	1	48	PAE5701-63	Liquid level tube	1
20	PAE5701-8	The lifting rod	1	49	PAE5701-60	Fixed caster	2
21	PAE5701-9	Snap ring	1	50	PAE5701A-18	Nut	2
22	PAE5701-10	Lock nut	1	51	PAE5701-59	Steering wheel	2
23	PAE5701-11	Clamp ring	1	52	PAE5701-47	Draw-off pipe	1
24	PAE5701-12	O Type sealing ring	1	53	PAE5701-46	Ball valve	1
25	PAE5701-13	Attachment joint	1	54	PAE5701-45	Square bend	1
26	PAE5701-14	Lifting rod	1	55	PAE5701A-A01	Measuring cup assembly	
27	PAE5701-15	Attachment joint	1	56	PAE5701A-A02	Vacuum generator assembly	
28	PAE5701-44	Vacuum gauge	1	57	PAE5701-A03	Lifting rod assembly	
29	PAE5701A-11	Square bend	1				

Product structure and component structure diagram :



Measuring cup assembly :



Chapter II Purpose of use

This product is used to receive the waste oil in the tank of automobile or mechanical equipment. When the waste oil in the tank reaches the corresponding position, it stops pumping and receiving the oil, and finally it is discharged from the exhaust pipe below the tank.




Chapter III Warning

- Position and content of warning label (see warning label on product tank)

When using pneumatic pumping and receiving waste oil, please follow the safety instructions on the operation.

If the installation instruction manual is missing or the warning label is peeling or defaced, please contact the seller.

- Danger Warning

	<p>Ban decomposition Because this product uses the vacuum pressure to work, each part is strictly sealed, if the random decomposition will lead to the equipment cannot work or cause safety accidents.</p>
	<p>Please understand the product instructions clearly before use If the operation is not correct, accidental injury or death may occur.</p>
	<p>Oil valve switch standard: please close the measuring cup ball valve when discharging oil or when there is air pressure in the tank!</p>

Chapter IV Product installation

- Insert the handle into the fixed roll, tighten the screws.
- Connect the wheels to the axles, tighten the screws, and insert steering wheels into the installing holes, fixed the wheels one by one.
- Put the extending rod to the central hole, tighten the screw, put the oil collecting pan into the Rotary joint, tighten the screw.
- Install the finished assembling measuring cup into the central hole, tighten the screw.
- Fix the "vacuum generator" into the central hole of measuring cup top, tighten the screw.
- Insert the probe tube (with the cover) into the loop on the side of oil tank, fix the tool box into the right position of the tank's mounting seat.

Chapter V Pumping method of use

Working principle: the use of air compression principle, the use of a specially designed vacuum generator device, at the same time the transparent measuring cup and storage tank vacuum, produce a certain degree of vacuum pressure difference, through the pumping pipe, the oil is pumped into the transparent measuring cup or storage tank. Then, under the action of external air pressure, the waste oil in the tank is discharged into the waste oil collection container.

- Vacuum

a Vacuum the transparent measuring cup

- Close all ball valves. (6 ball valves in total)
- The purified air source is quickly connected to the forward air nozzle of the vacuum generator, and the compressed air is vacuumized through the vacuum generator to the transparent cup
- In the process of vacuumizing, carefully observe the pointer of the vacuum gauge. When the pointer reaches the red scale area, cut off the air source to complete the vacuumizing operation of the transparent measuring cup. In the case of air source beside the station, you can pump oil while vacuuming. (Hot oil cannot be vacuumized while pumping oil)

b Vacuum the measuring cup with the oil storage tank

- Open the hose at the bottom of the measuring cup and the four-way joint of the tank to connect the vent ball valve, close all other ball valves, follow the above steps to complete the vacuumization of the measuring cup and the tank.

Chapter VI Receiving method of use

- Place the equipment in an appropriate position, adjust the lifting rod to a suitable height, turn the eccentric oil receiving plate below the oil discharging open the ball valve of the lift pipe the nut at the bottom of the oil tank, and start to discharge oil. and put the oil in the oil receiving pan into the oil storage tank
- When the drain is complete, close the elevator ball valve in time, and then remove the equipment.



Chapter VI Discharge method of use

- Drain the waste oil collected in the measuring cup into the tank

Open the ball valve at the bottom of the measuring cup, the oil in the transparent measuring cup will be discharged into the oil storage tank successively;

- Drain the oil from the storage tank into the collection container

a Below the natural oil discharge: close the oil tank oil discharge elbow ball valve, open the other all ball valves, let the tank inside and outside air is linked together, the discharge of oil pipe oil outlet on waste oil collection containers, open the ball valve, tank bottom oil discharge elbow place under atmospheric pressure in succession will waste oil into the collection container (oil discharge pipe outlet must be below the liquid surface in the tank)

b Pressurized oil discharge: Under the closed cup ball valve, measuring cup the following hose and connectors connected ball valve and lifting rod ball valve of tank, pipe front-end ball valve, from oil drain waste oil collection container, open the oil discharge elbow ball valve, open the inlet ball valve, the tank access 0.5 bar compressed air intake mouth place, make the compressed air into the tank, in the role of compressed air, The waste oil in the storage tank will be discharged into the waste oil collection container. (When the pressure in the tank exceeds 1bar, the safety valve opens automatically and the air source is cut off.)

When discharging oil, please hold or fix the bending hook of the discharging oil pipe.

Chapter VII Check the items

Pre-work inspection

- Before work every day, vacuumize the measuring cup and tank according to the above vacuumizing method, and then carefully observe the change of the pointer of the vacuum gauge to identify whether there is air leakage at the assembly of each component. If so, please contact the seller to solve, so as to avoid property loss or personal accident.
- Note: During vacuumizing, observe the pointer of the vacuum gauge. When the pointer reaches the red scale area, cut off the compressed air inlet source to complete vacuumizing.

Regular inspection

- Leak test
- Oil spill inspection
- Please confirm whether the metal parts of the hose and joint are damaged, deformed, worn and stained.
- Note: Regard to regular inspections, it is recommended to use a complete inspection regime of professional personnel. Please consult the seller for details.

Completion inspection

- After the operation, wipe the stains (water, sundries, oil, etc.) on each part of the product. If any abnormality occurs, contact the vendor immediately.

Notes

-Inspection

1. Before work and regular inspection, please be sure to carry out according to the contents of the operation manual;
2. Do not use this product for purposes unrelated to the extraction of waste oil

-Notes

1. Contact with fire or corrosive liquids is strictly prohibited;
2. Do not use beyond the usual pressure range.



Chapter VIII Trouble Shooting

Please read the instructions carefully and refer to the following inspection items before determining the fault. If the fault persists, contact the vendor.

Trouble	Cause	Remedy
The degree of vacuum can not reach	Insufficient air pressure	Adjust the air pressure to reach the specified pressure
	Cup broken	Contact the seller to replace
	Vacuum gauge damage	Contact the seller to replace
	The ball valves are not turn off except the valve of cup inlet	Turn off all the ball valves except the one of cup inlet
	Vacuum generator damage	Contact the seller to replace
Slow draining	Insufficient vacuum	Do not use before vacuum achieve the specified value
	Air leak	Contact with the vendor, to determine the location of the leak under the guidance.

Chapter IX Notes

- The air pressure used for oil discharge is 0.5bar;
- The measuring cup should not be too full of oil (below 9L).
- When the vacuum pressure in the measuring cup or tank is insufficient and the pumping speed slows down, the measuring cup or tank can be vacuumized and continue pumping;
- After the completion of oil discharge, the ball valve at the elbow of the lower drain pipe of the tank body must be closed;
- To clean the outside of the equipment, only soft cloth and neutral cleaning, do not wipe with hard objects or corrosive and flammable liquids contact the surface of the machine;
- When using the machine, if there is any abnormal fault, please contact the seller or manufacturer immediately.



No.

Date



No.

Date

适用型号 / Model: AE5701A

版本号 / Version No: V-AE-5701A-202202

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