

AILE

上海爱乐石油设备制造有限公司
SHANGHAI AILE PETROLEUM EQUIPMENT MFG. CO.,LTD.

Operating Instruction



A2101-11A(11AP) AUTOMATIC NOZZLE

Add: 888# Chengliu Mid. Rd. Malu Town, Jiading District, Shanghai, 201801, China
TEL: 86-21-59900396/59900195; FAX: 86-21-59900397

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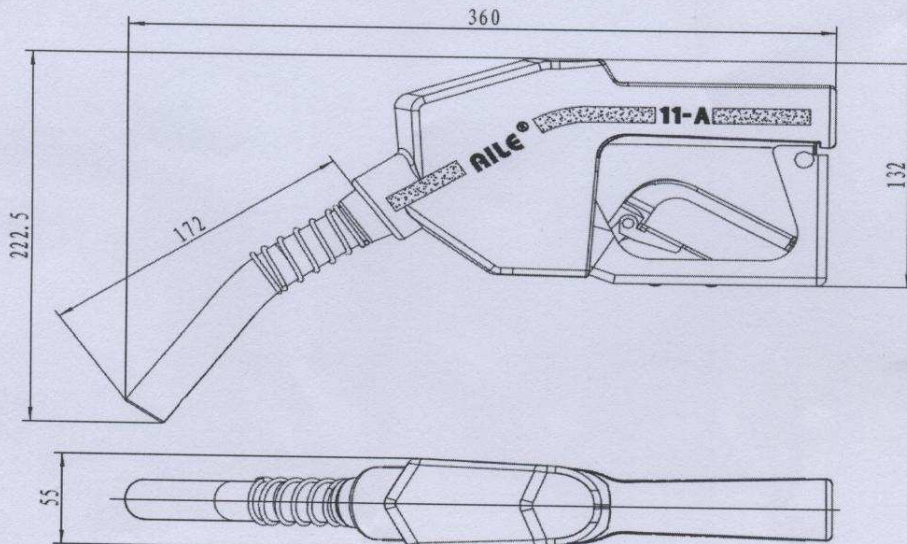
SHANGHAI AILE PETROLEUM EQUIPMENT MFG. CO., LTD.

1. Characteristics Presentation:

A2101-11A(11AP) Automatic Nozzle is mounted on dispensing machine in fueling station, it will be closed automatically to prevent leakage when the vehicle vessel is full. The nozzle with position control device will be closed or can't be opened when outlet port is upward or in other abnormal positions. The nozzle designed three shifts, flowrate could be changed according to demand.

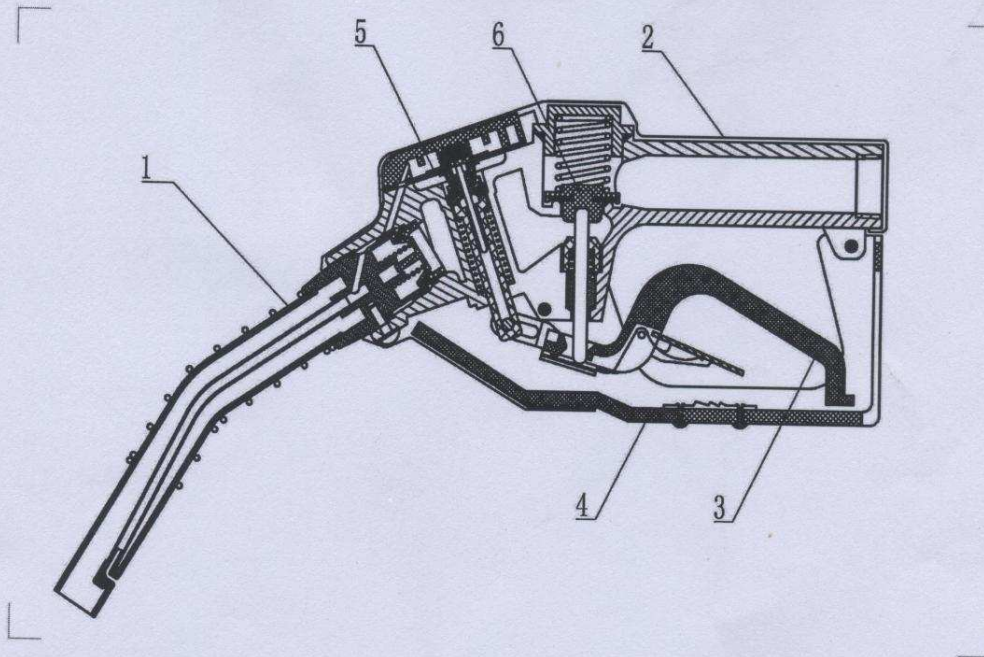
A2101-11A(11AP) Automatic Nozzle inlet port screw is female thread 3/4", outlet pipe screw is 13/16" and 15/16". A2101-11A(11AP) Nozzle performance meets the requirements of criteria:EN13012.

2. Drawing:



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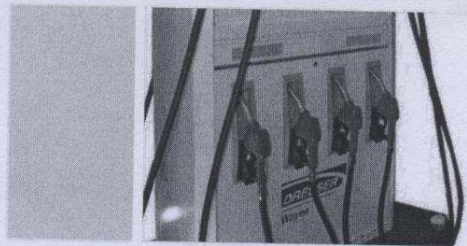


► **Important:**

AILE Products should be used in compliance with country, province and local Laws and regulations. Products selection should be based on physical specifications and limitations and compatibility with the environment and materials to be handled. AILE Makes no warranty of fitness for a particular use. All illustrations and specifications in this literature are based on the latest products information available at the time of publication, AILE reserves the right to make changes at any time in price, materials, specifications and models and to discontinue models without notice or obligation.

► **Replacement Parts:**

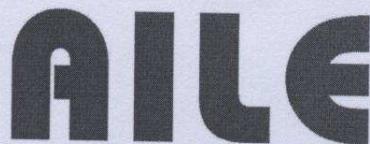
Key	Description	A2101-11A	A2101-11AP
1	Spout 13/16"		◆
1	Spout 15/16"	◆	
2	Full Hand Insulator	◆	◆
3	Lever Assembly	◆	◆
4	Lever Guard	◆	◆
5	Diaphragm Assembly	◆	◆
6	Main Valve Assembly	◆	◆



3. Technical Parameters:

- a. Manufacture criteria: EN 13012
- b. Model/Type: A2101-11A / A2101-11AP
- c. Medium: Gasoline(11AP) and diesel(11A)
- d. Work Pressure: 0.18MPa
- e. Flow Rate:
 - A2101-11A Maximum Flow 60L/min
 - A2101-11AP Maximum Flow 50L/min
- f. Connecting Thread: BSPP 3/4" / BSPT3/4" / NPT3/4"

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4. Installation And Usage:

A2101-11A(11AP) Automatic Nozzle application pressure is 0.5-3.5bar, medium is gasoline and diesel oil. The Nozzle could be connected with hose directly; operate nozzle several times after starting oil pump for exhausting air.

Ensure the joint between nozzle and hose is tightened under pressure. Replace nozzle on shelf to check if dispensing machine was stopped automatically.

5. Nozzle Maintenance :

A2101-11A(11AP) Nozzle do not need any lubricant. Sensitivity and sealing tightness of main valve shall be inspected (include testing and visual observation) regularly by professional.

TROUBLESHOOTING

Problem	Problem Cause	Solution
No Shutting Off	Diaphragm not pressured tightly enough, airproof not well. Diaphragm is damaged, no airproof. O-ring aged, airproof not well.	Tighten the screw on the cover. Replacing diaphragm. Replacing the O-ring.
Backstop on guard not working	Backstop worn out on brim, underprop can not uphold well. Underprop worn out fails to uphold.	Replacing underprop Replacing backstop on guard.
Level not working	Hold blocked ,when opening nozzle, negative pressure in chamber of diaphragm, main valve can not be opened.	Cleaning or replacing spout replacing diaphragm spring or maintenance.
Leakage from spout	Leakage from check valve, after shutting off ,the petrol in nozzle will leak out. Leakage from main valve, after shutting off, leakage under pressure.	Cleaning or replacing Cleaning or replacing

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6. Notice:

- a. Person without training or authorized is not allowed to disassemble nozzle.
- b. Do not take out nozzle pipe immediately when the vessel is filled up to prevent fuel spattering.
- c. Stay outlet pipe in vessel 15-20 secs for draining.
- d. A2101-11A(11AP) Automatic Nozzle is consumable which shall be changed after trouble-free working 12 months.

7. Quality Statement:

AILE assumes no liability whatsoever for any misused or products beyond warranty period.

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IEP ENERGY PETROLEUM INSTITUTE

EC-Type Examination Certificate

- 1). Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 2). EC-Type Examination Certificate Number: IEP 13 ATEX 0152 U
- 3). Equipment: AILE A2101-11A/AP Automatic Nozzle
- 4). Manufacturer: Shanghai AILE Petroleum Equipment Mfg. Co., LTD.
- 5). Compliance with Essential Health and safety requirements has been assured by compliance with: EN 13463-1:2009, EN 13463-5:2003, EN 13463-8:2003, EN 13012:2002



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[1]

EC-Type Examination Certificate

[2] **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 94/9/EC

[3] EC – Type Examination Certificate Number : **IEP 13 ATEX 0152 U**

[4] Equipment : **Automatic Nozzle Type AILE A2101-11A/11AP
AILE 120- L/LP and AILE ZYQ-13A/AP**

[5] Manufacturer : **Shanghai AILE Petroleum Equipment Mfg. Co. Ltd.**

[6] Address : **No:888 Chengliu Mid Rd. Jiading District Shanghai - CHINA**

[7] This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] The IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with of the Council Directive 94/9/EC of 23 March 1994 certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential Report N : IEP - RP.Ex - 10. 506 date 03.07.2013


[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 13463-1:2009 , EN 13463-5:2003 , EN 13463-8:2003 , EN 13012 :2002

[10] If the sign “ X “ is placed after the certificate number , it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

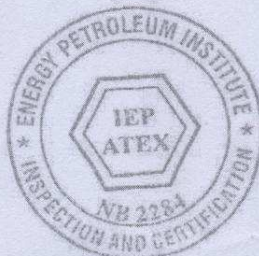
[11] This EC-Type Examination Certificate relates only to the design examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following :

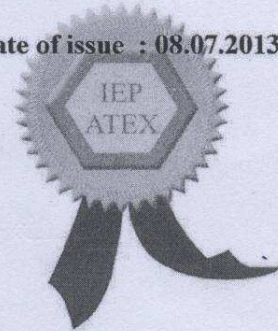
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Responsible person :

Nurettin Terzioglu
Head of certification body



Date of issue : 08.07.2013



IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti.
MTK Sitesi 5746/1 Sok. No:9 K:2 Camdibi – IZMIR / TURKEY Tel : +90 232 431 17 45 46 & Fax : +90 232 431 17 30

Number of Pages : 1 / 6

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