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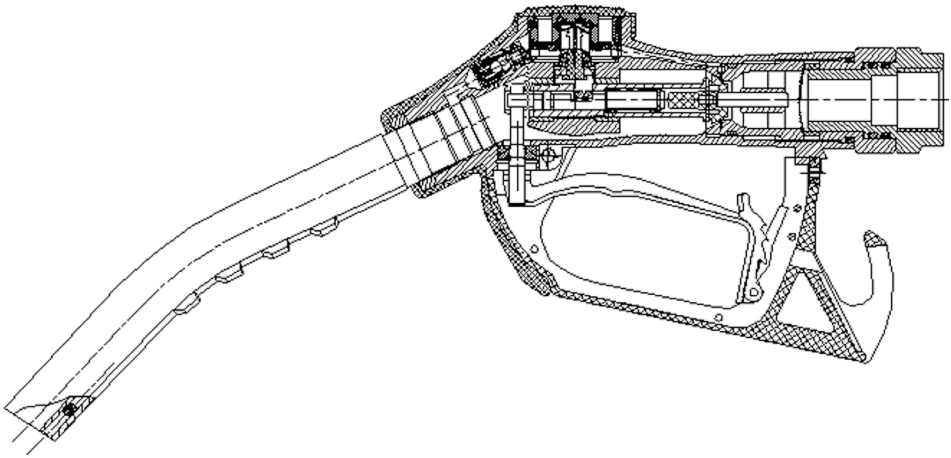
JH-ZFQ2-70

Automatic Nozzle
Automatik-Zapfventil



Installation and Maintenance Manual **EN**

Installations- und Wartungsanleitung **DE**

PIUSI S.p.A.

MO433 A ENDE_01

ENGLISH

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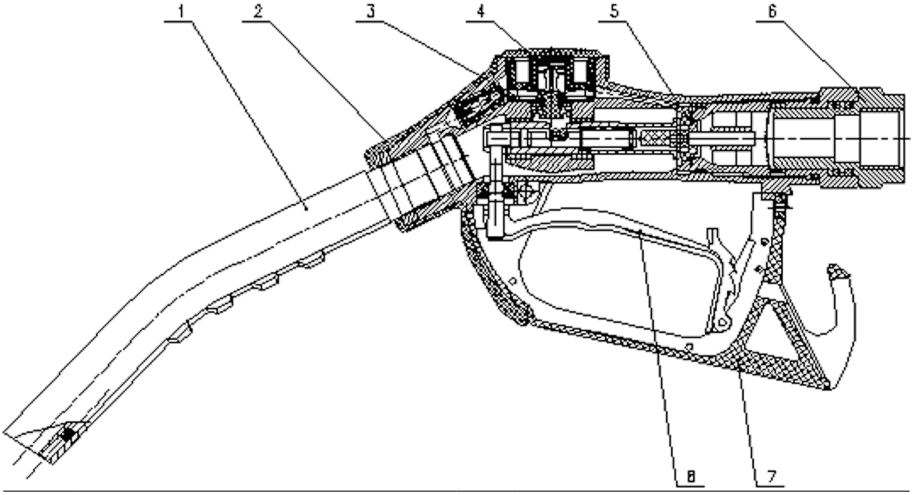
1 INTRODUCTION

JH-ZFQ2-70 automatic nozzle is a kind of nozzle that shut off automatically when spout touch surface of liquid, avoiding liquid overflow, keeping space clean.

2 CONSTRUCTION AND PRINCIPLE

EN

2.1 CONSTRUCTION



1	spout	***5***	main valve
2	body	***6***	swivel
3	check valve	***7***	guard
4	diaphragm	***8***	lever

2.2 PRINCIPLE

Starting the fueling dispenser, opening automatic nozzle, the level will drive the shaft move ahead. The shaft drive two rollers and sleeve move ahead, and petrol under pressure open main valve and flow out from spout. When petrol flow through main valve, flow section is decreasing rapidly, flow rate increases instantly, pressure go down at once. Meiobar is come into being, and ventilate to chamber above diaphragm and hole on spout. When the surface of liquid level and foam not reaching the hole, meiobar ventilates.
when the surface of liquid level and foam touching the hole, meiobar can not ventilate.
The chamber above diaphragm become negative pressure. The diaphragm and roller go up, the brass sleeve move back on the stress of spring, and then the main valve is closed.
At same time shaft also move back on the stress of spring, the automatic nozzle shut off.

3 MODEL AND PARAMETER DATA

Model	Inlet	O.D. (mm)	Petrol Product	Position
JH-ZFQ2-70	BSP 1"	21	Diesel, gasoline	3

4 PARAMETER DATA

	Spout O.D (mm)	Flow Rate(L/min)			Min. shutting off Flow rate L(/min)
		High	Middle	Low	
JH-ZFQ2-70	21	63	42	22	8

5 INSTALLATION

- Install and use directly, Lubrication not necessary,
- When connecting automatic nozzle and hose, use wrench to tighten the hose coupling. Using shaft tools to lock the lever is prohibited.
- If the thread of swivel is NPT, before installation, daub a little sealant, not too tight, no Teflon tape to avoid any damage to the swivel

6 OPERATION

- Three positions for fueling on three flow rates available on the automatic nozzle,
- During fueling, when the hole on the bottom of the spout is under the liquid surface, the automatic nozzle will shut off automatically. If foam causes the shutting off of automatic nozzle, open the nozzle again until the foam disappeared

7 MAINTENANCE

- Keep the hole on the bottom of the spout unblocked. Once the hole is blocked, the automatic nozzle can not well work.
- After service, put the automatic nozzle back to nozzle boot, avoiding damage.
- Lubrication not necessary, long time service.

8 TROUBLESHOOTING

PROBLEM	PROBLEM CASUE	SOLUTION
No shutting off	Diaphragm not pressured tightly enough, airproof not well.	Tighten the screw on the cover
	Diaphragm is damaged, not airproof.	Replacing disphram
	O-ring aged, not airproof not well.	Replacing O-ring
Backstop on guard not working	Backstop worn out on brim, underprop can not uphold well	replacing underprop
	Underprop worn out fails to uphold	Replacing backstop on guard
Lever not working	Hole blocked, when opening nozzle, negative pressure in chamber of diaphragm, main valve cannot be opened.	Cleaning or replace spout
	Diaphragm not repositioning, when opening nozzle, shaft movies back, main valve cannot be opened.	Replace diaphragm, spring or maintenance
Leakage from spout	Leakage from check valve, after shutting off, the petrol in nozzle will leak out.	Clean or replace
	Leakage from main valve, after shutting off, leakage under pressure.	Clean or replace