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1 CONFORMITY
1.1 DECLARATION OF CONFORMITY (2014/34/UE, ANN. VII)

The manufacturer: Piusi S.p.A.
Via Pacinotti, 16/A - z.i.Rangavino
46029 Suzzara (MN) - Italy
Declares under its own and sole responsibility that the machine:
Type: Flow meter
Model: K150 ATEX
Year of construction: see the year of production indicated on the EC data plate affixed to the product.

Place: Suzzara (MN)
Date 01/08/2019
Otto Varini
Legal representative

1.2 MARKING
EACH DEVICE COMPLIES WITH THE FOLLOWING ATEX MARKING

Table with 2 columns: Marking and Description. Includes II GROUP II, CATEGORY 2, TYPE OF EXPLOSIVE ATMOSPHERE, PERMANENT PREFIX, PROTECTION METHOD, GAS CLASS, TEMPERATURE CLASS, and EQUIPMENT PROTECTION LEVEL.

2 MACHINE DESCRIPTION

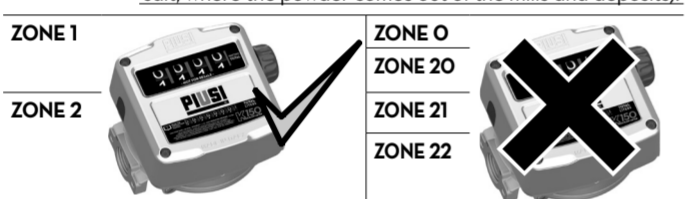
K150 ATEX flow meters are mechanical nutating disc type meters designed to guarantee accurate metering of petrol or other liquids compatible with the construction materials. The nutating disc in the measuring chamber (see diagram 1, assembly "7"), moved by the liquid, activates the gear train housed in the cover of the meter body (assembly "7") which transmits motion to the meter (assembly "6").

WARNING To ensure a proper and safe use of the meter it is necessary to read and follow the instructions and warnings contained in this manual. An improper installation or use of the meter may cause damage to objects and people.

2.1 DEFINITION OF CLASSIFIED ZONES

FOREWORD ZONE O
ZONE 1
ZONE 2
ZONE 20
ZONE 21
ZONE 22

ZONE 1
ZONE 20
ZONE 21
ZONE 22



2.2 INTENDED USE

Table with 2 columns: Intended Use and Restrictions. Includes PERMITTED USE, PROHIBITED USE, and PLANT OPERATION RESTRICTIONS.

2.3 HANDLING AND TRANSPORT

Due to the limited weight and dimensions of the METERS, special lifting equipment is not required to handle them. THE APPLIANCES ARE CAREFULLY PACKED before dispatch. Check the packing when receiving the material and store in a dry place.

3 GENERAL WARNINGS

Important precautions
Symbols used in the manual

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury
NOTICE is used to address practices not related to personal injury

Manual preservation
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Table with 2 columns: Note and Warning. Includes warnings about proceeding with refuelling of the aircraft, using the meter with liquids, and environmental conditions.

4 FIRST AID RULES

Contact with the product
NOTE
SMOKING PROHIBITED

5 GENERAL SAFETY RULES

USER'S RESPONSIBILITIES
Essential protective equipment characteristics
Personal protection equipment to be worn
Other devices
Protective gloves

Table with 2 columns: Note and Warning. Includes warnings about electric shock and detonation, and failure to observe rules.

6 TECHNICAL DATA

Table with 2 columns: Technical data and Mod. K150 ATEX. Includes Meter Mechanism, Flow rate, Operating pressure, Burst pressure, Storage temperature, Operating temperature, Pressure loss, Accuracy after calibration, Repeatability, Batch readout, Totaliser readout, Resolution, Connections, Weight, Package dimensions, and Optional features.

7 OPERATING CONDITIONS

Table with 2 columns: Environmental Temperature, Fluid Temperature, Relative Humidity, and Warning. Includes temperature limits and a warning about temperature limits.

7.2 FLUIDS PERMITTED

WARNING THE METER CAN BE USED ONLY WITH THE FOLLOWING FLUIDS:
- DIESEL; - B7; - B20 - KEROSENE;
- PETROL; - BTL ALCOHOL MIXED MAX 20% (E20)
- AVGAS 100/100LL; - JET A / A1;
- ASPEN 2 / 4.

8 INSTALLATION

PRELIMINARY CHECKS
FOREWORD
WARNING
EXAMPLE OF AVAILABLE CONFIGURATIONS

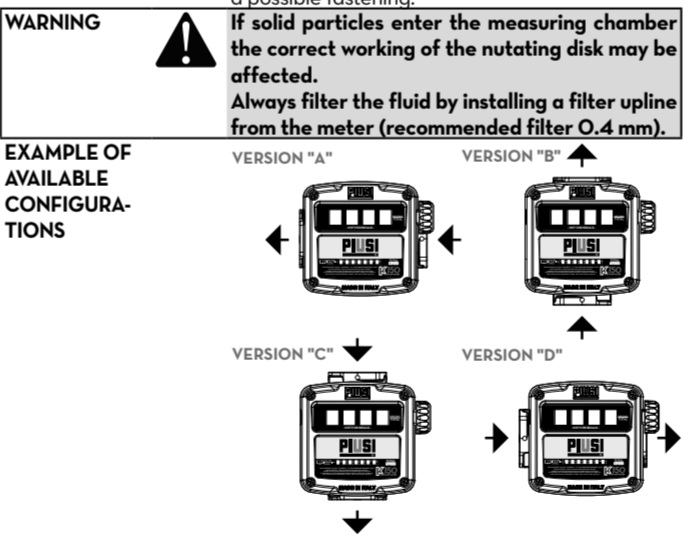


Table with 2 columns: Warning and Note. Includes warnings about flow direction, explosive areas, and electrical safety.

9 CALIBRATION

FOREWORD
HOW TO CALIBRATE

WARNING
6 Compare the indication of the calibration container (real value) with the one of the meter (indicated value).

7 TIGHTEN THE PLUG AGAIN (see diagram 1, pos. "9"). The O ring which the calibration screw is provided with, has the function to avoid accidental loosening of the adjustment screw but does not have any sealing function.

10 EVERY DAY USE

WARNING THE WORKING OPERATIONS MUST ALWAYS BE GUARDED BY THE OPERATOR.
WARNING IF ANY TREATED FLUID LEAKS OUT DURING DISPENSING, TAKE ALL STEPS NECESSARY TO ENSURE THE LEAKED FLUID IS CLEANED UP AND SAFE AS SPECIFIED ON THE PRODUCT TECHNICAL SHEET.

GRAVITY USE
The K150 ATEX meter can also be used in fuel units which are not equipped with pumps and where the flow is generated by the difference in fluid level between the tank and the nozzle outlet.

11 MAINTENANCE

CAUTION
FOREWORD
Safety warnings

PERSONNEL AUTHORISED TO PERFORM MAINTENANCE PROCEDURES
WARNING
WARNING

WARNING
WARNING

MEASURES TO BE TAKEN
ONCE A MONTH
ONCE A WEEK

12 PROBLEMS, CAUSES AND SOLUTIONS

Table with 3 columns: Problem, Possible Cause, and Corrective Action. Includes UNSATISFACTORY ACCURACY and Air in the fluid.

13 DEMOLITION AND DISPOSAL

Foreword
Disposal of Packaging
Metal parts disposal
Disposal of electrical and electronic components
Disposal of Other parts



MADE IN ITALY
IT Installazione uso e manutenzione
EN Installation, use and maintenance

BULLETIN M0554 ITEM\_00



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