



[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 15 ATEX 0320**

[4] Equipment or protective system : **Electric Chemical Dosing Pump**

[5] Manufacturer : **DAĞGAZ Doğalgaz Malzemeleri Mühendislik Müşavirlik Turizm İnşaat Taah. San.ve Tic. Ltd. Şti.**

[6] Address : **Arslanbey OSB Mahallesi 8. Sok. No:7 Kartepe / Kocaeli - TURKEY**

[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 Uluslararası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with Article 9 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 related to the design and construction of the 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 Nr : IEP - RP.Ex - 10. 756 date 11.05.2015


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

EN 13463-1: 2010 . EN 13463-5: 2011 , EN 13463-8:2003 , EN 60079-0:2009

[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 :

 **II ½ G c k IIA T4**

Responsible Person :

Nurettin Terzioğlu
Head of certification body



Date of Issue : 22.06.2015





[13] Schedule

[14] Certificate Nr : **IEP 15 ATEX 0320**

[15] Description of Equipment Protective System ;

Dağgaz Electric Chemical Dosing Pump the necessary, predetermined or calculated amount of odorant into gas pipe line. Systems uses Natural Gas or Nitrogen pneumatic power source. System consists of a pneumatic cabinet and a controller cabinet. Controller cabinet can be placed outside of the hazardous area.

Electrical motors uses for pumps strokes and pumps inject to the odorant below to pipeline. And the flowmeter measures the amount pumped to the pipeline accurately. Regulator used to reduce as pressure for pressurize odor tank.

The determination of hazardous areas inside and outside of the odorizing system is defined in accordance to EN 60079-10-1.

The electrical and non-electrical equipment installed in a hazardous areas are in corresponding ex-type of protection specified "List of electrical and non-electrical parts."

[16] Special Conditions for Safe Use :

Electric Chemical Dosing Pump have to conform to the relevant national regulations.

[17] Essential Health and Safety Requirements :

17.1 Covered by standards mentioned in [9] of this certificate.

17.2 According to Directive 94/9/EC Annex 2, clause 1.0.6 and manufacture's service and operation manual for use dated 20.05.2013 , Electric Chemical Dosing Pump allowed to be installed in hazardous area specified according to EN 60079-10-1.

17.3 At the installation and the operation of Electric Chemical Dosing Pump have to be observed manufacture's service and operation manual dated 20.05.2013. (8 pages)

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body





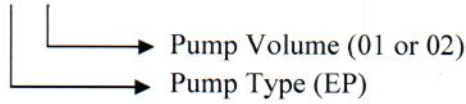
[18] Report Nr : IEP - RP.Ex - 10.756

Report Date : 11.05.2015

[19] Technical Sheets

19.1 Coding System

DO X Y



19.2 Description of the Code

X: Pump Type	EP: Electric Chemical (gas odorants, solvents, DMDS and etc.) Dosing Pump	
Y: Pump Volume	01: 20 cc	02: 3 cc

19.3 Technical Specifications

Operation Output Max.	: 25 liters/hr. and 4 liters/hr.
Maximum Operating Pressure	: 100 bar
Operating Temperature	: -15 °C; + 60 °C
Power Supply	: 230 V AC / 24V DC 4 A (Max)
Data Communication Signal	: 0-10 V DC, 4-20 mA, pulse, RS485
Usage	: In all industries for the injection of a wide variety of chemicals

[20] List of Documentation ;

Drawing Nr ;	Drawing Name ;	Drawing Date ;
DO-EP-(01-02)-202	Exploded	02.10.2013
DO-EP-(01-02)-209	General	02.06.2014
DO-EP-(01-02)-208	General	02.06.2014
DO-EP-(01-02)-207	General	02.06.2014
DO-EP-(01-02)-203	Outside and Zone Drawing	18.12.2013
DO-EP-(01-02)-179	Pumps Dimensions	30.06.2014
DO-EP-(01-02)-125	Exploded	06.04.2013

List of Mechanical Devices - Table 002 (1 page)	01.04.2013
List of Mechanical parts - Table 1 (1 page)	06.04.2013
Service and Operation Manual (8 page)	20.05.2013

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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