



Supplement No: 1

(1) EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

- (3) EU Type Examination Certificate Number: IEP 17 ATEX 0510X
- (4) Product: Gas Actuators, Type GK, GR, GI, AK, AR, AI
- (5) Firm Name: Vastas Valf Armatür Sanayi Ticaret A.Ş.
- (6) Firm Address: Organize Sanayi Bölgesi 2. Cad. No: 20-22 Çerkezköy/ Tekirdağ, Türkiye
- (7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The IEP Uluslararasi Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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.10-1107-1 date 24.11.2020.
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN ISO 80079-36:2016, EN ISO 80079-37:2016, EN IEC 60079-0:2018

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following:

II 1/2G Ex IIC T4 Ga/Gb, II 2D Ex IIIC T125 °C Db
II 1/2G Ex h IIC T4 Ga/Gb, II 2D Ex h IIIC T125 °C Db

Responsible Person:

Nurettin Terzioglu Head of Certification Body IEP ATYX LE

Supplement Date of Issue: 04.12.2020



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(13) Schedule

(14) Certificate Nr: IEP 17 ATEX 0510X

(15) Description of Equipment;

Gas actuators are a valve actuator which is designed to be used for automatic operation of line valves, and operates using line pressure (natural gas). It can even operate full-automatic way in all weather conditions where nobody and no electric power exist.

Various types are available depending on operating conditions.

Scotch yoke mechanism converts linear motion which comes from pneumatic cylinder to rotary motion required for valve operation.

Gas actuators consist of mechanical and electrical equipment. Some types of solenoid valves work with the opening and closing system. Heat and pressure sensors are used in gas actuators. If the control boxes mounted on the actuator, Electrical control boxes must comply with the ATEX Directive.

The energetic restraint barriers must be used for the pressure and temperature sensors.

Linear actuators operate the valves that are opening/ closing via linear motion of disc (gate valve, globe valve). Operation provided by cylinder or spring directly. Quarter turn actuators operate the valves that are opening/ closing via axial (quarter turn) motion of disc (ball valve, plug valve). Operation of the valve provided by scotch yoke mechanism.

Technical Parameters:

Type

: GK, GR, GI, AK, AR, AI

Definition

: AX: Linear Actuator ; GX Quarter Turn Actuator

Working Temperature : -30 to +80 °C

Pressure :

: 6 to 250 bar

(16) List of Documentation:

Gas actuators user manual

: 40 pages, dated 23.11.2020

Component Lists

: Part - 5 dated 11.05.2016

Mounting Pictures and Technical Drawings

: Part - 4 6 pages

Certificates and Test Reports

: Part -5/7 137 pages

• Risk assessment reports, dated 23.11.2020

• Operating and performance test reports, dated 23.11.2020

Cleaning, painting and inspection test report, dated 12.02.2016

Pressure Analyses, dated 23.09.2016

Final and inspection report, dated 23.11.2020

• Radiographic examination report, dated 25.01.2016

Responsible Person:

Nurettin Terzioglu Head of Certification Body IEP NB 228d HUS



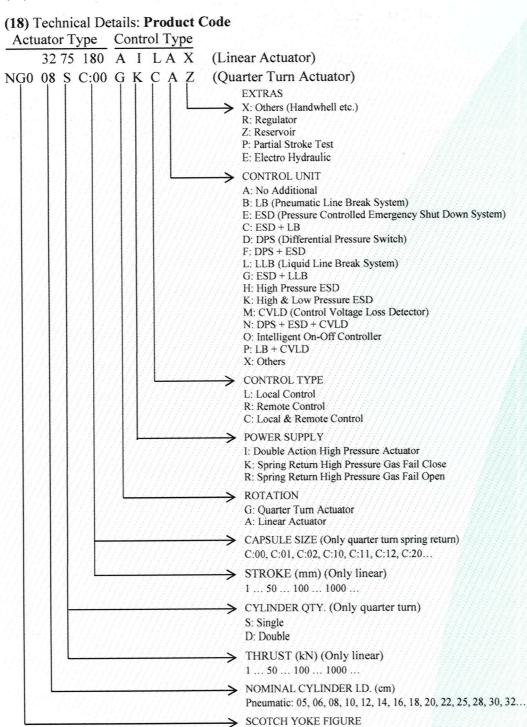
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(17) Certificate Nr: IEP 17 ATEX 0510X



Responsible Person:

Nurettin Terzioglu Head of Certification Body



NGJ, NG0, NG1, NG2, NG3, NG4, NG6, NG7





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(19) Certificate Nr: IEP 17 ATEX 0510X

(20) Essential Health and Safety Requirements:

20.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

20.2 At the installation and the operation of the gas actuators has to be observed manufacturer's manual 40 pages dated 23.11.2020.

(21) Drawings;

Drawing Nr	Drawing Name	Date
Vst-02	Label	11.01.2017
VA-ACT-SC-01-5R0	Spring Capsule	18.03.2016
VA-ACT-PC-01-5R0	Single Acting Pneumatic Cylinder	15.03.2016
VA-ACT-PC-02-5R0	Double Acting Pneumatic Cylinder	18.03.2016
PNG1100-7020/25-6R0	Scotch Yoke Assembly-D-A Hydraulic	15.04.2016
PGST-200-032-001-6R0	Gas Storage Tank	16.03.2016
PSP-15745-01-6R0	1 " Quick Exhaust	15.03.2016
PGC-100-01-6R1	Datasheet-1	17.11.2016
PGN-100-01-6R1	Datasheet-2	17.11.2016

Certificate History

Supplement No	Supplement Date	Summary Description of Variation
01	04.12.2020	-New type addition: GI, AK, AR, AI type -Standard update: New EN ISO 80079-36 and 37, EN IEC 60079-0
00	03.04.2017	First issue of certificate

Responsible Person:

Nurettin Terzioglu Head of Certification Body Supplement Date of Issue: 04.12.2020

