IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

(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 0509**

(4) Product: **Gas over Hydraulic Actuators, Type GO**

(5) Firm Name: **Vastaş 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 Uluslararası 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.10-1106 date 30.03.2017.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 13463-1/2009 ; EN 13463-5/2011 ; EN 60079-0/2013

(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:

Ex II 2GD c II T4

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 03.04.2017

ENERGY PETROLEUM INSTITUTE * INSPECTION AND CERTIFICATION * IEP ATEX NB 2284

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(13) Schedule

(14) Certificate Nr: **IEP 17 ATEX 0509**

(15) Description of Equipment;

Gas over hydraulic actuators is a valve actuator which is designed to be used in valve opening closing automation firstly natural gas pipelines, operates using line pressure (natural gas) or external power supply (air, nitrogen). It can even operate full-automatic way in all weather conditions where nobody and no electric power exist. 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 over hydraulic actuators. If the control boxes are 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.

Technical Parameters:

Type	: GO
Working Temperature	: -29 to +80 °C
Pressure	: 12 to 100 bar
Size	: NGJ, NG0, … , NG7
Torque	: 400 ~ 600000 Nm

(16) Essential Health and Safety Requirements:

16.1 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.

16.2 At the installation and the operation of the gas over hydraulic actuators has to be observed manufacturer's manual 73 pages dated 20.12.2016.

(17) List of Documentation:

- Gas over hydraulic actuators user manual : 73 pages, dated 20.12.2016
- Component Lists : Part – 5 dated 11.05.2016
- Mounting Pictures and Technical Drawings : Part – 4 7 pages
- Certificates and Test Reports : Part – 5/ 7 454 pages
  - Risk assessment reports, dated 15.04.2016
  - Operating and performance test reports, dated 09.09.2016z
  - Cleaning, painting and inspection test report, dated 10.05.2014
  - Final test and inspection report, dated 21.05.2014
  - Radiographic examination report, dated 19.01.2016
  - Pressure Analyses, dated 20.04.2016
- Drawings;

Drawing Nr	Drawing Name	Date
Vst-01	Label	15.01.2017
PNG1100-7020/25-6R0	Scotch Yoke Assembly-D-A Hydraulic	15.04.2016
VA-ACT-CNT-05-6R2	Double Acting Hydraulic Cylinder	03.05.2016
PGHT-150-009-001-6R0	Gas Hydraulic Tank	03.05.2016
PGST-200-032-001-6R0	Gas Strage Tank	16.03.2016
PSP-14731-01-6R1	1/2 " Shuttle Valve	20.09.2016
PGO-100-02-6R1	Datasheet	11.11.2016

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

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(18) Certificate Nr: **IEP 17 ATEX 0509**

(19) Technical Details: **Product Code**

Actuator Type			Control Type				
NG0	08	S	G	O	C	B	Z

EXTRAS
X: Others (Handwhell etc.)
R: Regulator
Z: Reservoir
P: Partial Stroke Test
E: Electro Hydraulic

CONTROL UNIT
A: No Additional
B: LB (Pneumatic Line Break System)
E: ESD (Pressure Controlled Emergency Shut Down System)
C: ESD + LB
D: DPS (Differential Pressure Switch)
F: DPS + ESD
L: LLB (Liquid Line Break System)
G: ESD + LLB
H: High Pressure ESD
K: High & Low Pressure ESD
M: CVLD (Control Voltage Loss Detector)
N: DPS + ESD + CVLD
O: Intelligent On-Off Controller
P: LB + CVLD
X: Others

CONTROL TYPE
L: Local Control
R: Remote Control
C: Local & Remote Control

POWER SUPPLY
O: Gas Over Hydraulic

ROTATION
G: Quarter Turn Actuator
A: Linear Actuator

CYLINDER QTY.
S: Single
D: Double

NOMINAL CYLINDER I.D.
Pneumatic: 06, 08, 10, 12, 14, 16, 20, 22, 25, 28, 30, 32…

SCOTCH YOKE FIGURE
NGJ, NG0, NG1, NG2, NG3, NG4, NG6, NG7

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 03.04.2017

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