

Supplement No: 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 0511X**

(4) Product: **Pneumatic Actuators, Type GP, GC, GN, GU, GV, AP, AC, AN, AU, AV**

(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.10-1108-1 date 03.11.2020.

(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 ½G Ex IIC T4 Ga/Gb , II 2D Ex IIIC T125 °C Db
II ½G Ex h IIC T4 Ga/Gb , II 2D Ex h IIIC T125 °C Db

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Date of Issue : 12.11.2020





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(13) Schedule

(14) Certificate Nr: **IEP 17 ATEX 0511X**

(15) Description of Equipment;

Pneumatic actuators are a valve actuator which is designed to be used for automatic operation of line valves, and operates using pneumatic pressure.

Pneumatic actuators 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.

Pneumatic actuators consist of mechanical and electrical equipment. Some types of solenoid valves work with the opening and closing system. Temperature and pressure sensors are used in pneumatic 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	: GP, GC, GN, GU, GV, AP, AC, AN, AU, AV
Working Temperature	: -29 to +80 °C
Pressure	: 5 to 10 bar
Size	: NGJ, NG0, ... , NG7
Torque	: 400 ~ 600000 Nm

IEP 17 ATEX 0511X (X Means): It must be assembled according to the manual. It must be installed by authorized personnel. Their maintenance should be done by authorized personnel according to the standard and user manual. The certificate becomes invalid in case of unapproved part replacement

(16) List of Documentation:

- ♦ Pneumatic actuators user manual : 73 pages, dated 20.12.2016
- ♦ Component Lists : Part – 5 dated 09.08.2016
- ♦ Additional Component Lists : Part – 5 dated 29.09.2020
- ♦ Mounting Pictures and Technical Drawings : Part – 4 6 pages
- ♦ Additional Mounting Pictures and Technical Drawings : Part – 4 3 pages
- ♦ Certificates and Test Reports : Part – 5/ 7 91 pages
- ♦ Additional Certificates and Test Reports : Part – 5/ 7 30 pages
- ♦ Risk assessment reports, dated 18.04.2016 and additional risk report 4 page, dated 01.10.2020
- ♦ Operating and performance test reports, dated 03.11.2015, additional 9 page, dated 01.10.2020
- ♦ Cleaning, painting and inspection test report, dated 12.02.2016
- ♦ Pressure Analyses, dated 23.09.2016
- ♦ Final and inspection report, dated 21.05.2014
- ♦ Radiographic examination report, dated 19.01.2016

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi
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(17) Certificate Nr: **IEP 17 ATEX 0511X**

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

Actuator Type				Control Type							
----	20	50	100	A	C	L	A	X			
NG0	08	S	C:00	G	P	C	A	Z			
				(Linear actuator)				(Quarter turn actuator)			
				EXTRAS				CONTROL UNIT			
				X: Others (Handwhell etc.)				A: No Additional			
				R: Regulator				B: LB (Pneumatic Lipe Break System)			
				Z: Reservoir				E: ESD (Pressure Controlled Emergency Shut Down System)			
				P: Partial Stroke Test				C: ESD + LB			
				E: Electro Hydraulic				D: DPS (Differential Pressure Switch)			
				CONTROL UNIT				F: DPS + ESD			
				A: No Additional				L: LLB (Liquid Line Break System)			
				B: LB (Pneumatic Lipe Break System)				G: ESD + LLB			
				E: ESD (Pressure Controlled Emergency Shut Down System)				H: High Pressure ESD			
				C: ESD + LB				K: High & Low Pressure ESD			
				D: DPS (Differential Pressure Switch)				M: CVLD (Control Voltage Loss Detector)			
				F: DPS + ESD				N: DPS + ESD + CVLD			
				L: LLB (Liquid Line Break System)				O: Intelligent On-Off Controller			
				G: ESD + LLB				P: LB + CVLD			
				H: High Pressure ESD				X: Others			
				K: High & Low Pressure ESD				CONTROL TYPE			
				M: CVLD (Control Voltage Loss Detector)				L: Local Control			
				N: DPS + ESD + CVLD				R: Remote Control			
				O: Intelligent On-Off Controller				C: Local & Remote Control			
				P: LB + CVLD				POWER SUPPLY			
				X: Others				P: Double Acting Pneumatic			
				CONTROL UNIT				C: Spring Return Air Fail Close			
				A: No Additional				N: Spring Return Air Fail Open			
				B: LB (Pneumatic Lipe Break System)				U: Spring Return Air Fail close & Tandem Hydraulic			
				E: ESD (Pressure Controlled Emergency Shut Down System)				V: Spring Return Air Fail Open & Tandem Hydraulic			
				C: ESD + LB				ROTATION			
				D: DPS (Differential Pressure Switch)				G: Quarter Turn Actuator			
				L: LLB (Liquid Line Break System)				A: Linear Actuator			
				G: ESD + LLB				CAPSULE SIZE (Only Quarter Turn Spring Return)			
				H: High Pressure ESD				C:00, C:01, C:02, C:10, C:11, C:12, C:20...			
				K: High & Low Pressure ESD				STROKE (mm) (Only linear)			
				M: CVLD (Control Voltage Loss Detector)				I.. 50.. 100.. 1000...			
				N: DPS + ESD + CVLD				CYLINDER QTY. (Only Quarter Turn)			
				O: Intelligent On-Off Controller				S: Single			
				P: LB + CVLD				D: Double			
				X: Others				THRUST (kN) (Only linear)			
				CONTROL UNIT				I.. 50.. 100.. 1000...			
				A: No Additional				NOMINAL CYLINDER I.D. (cm)			
				B: LB (Pneumatic Lipe Break System)				Pneumatic: 08, 10, 12, 14, 16, 20, 22, 25, 28, 30, 32, 34, 36, 40, 42, 45, 48, 50...			
				E: ESD (Pressure Controlled Emergency Shut Down System)				SCOTCH YOKE FIGURE (Only Quarter Turn)			
				C: ESD + LB				NGJ, NG0, NG1, NG2, NG3, NG4, NG6, NG7			

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(19) Certificate Nr: **IEP 17 ATEX 0511X**

(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 pneumatic actuators has to be observed manufacturer's manual 73 pages dated 20.12.2016. (New version dated 06.10.2020)

(21) Drawings:

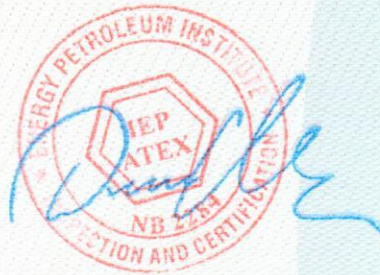
Drawing Nr	Drawing Name	Date
Vst-03	Label	11.01.2017
PNG1-100-7020/25-6R0	Scotch Yoke Assembly-D-A Hydraulic	15.04.2016
VA-ACT-SC-01-5R0	Spring Capsule	21.04.2015
VA-ACT-PC-01-5R0	Single Acting Pneumatic Cylinder	21.04.2015
VA-ACT-PC-02-5R0	Double Acting Pneumatic Cylinder	09.07.2015
PGST-200-032-001-6R0	Gas Strage Tank	16.03.2016
PSP-15745-01-6R0	1 " Quick Exhaust	15.03.2016
PGP-100-01-6R1	Datasheet-1	21.12.2016
PGC-100-01-6R1	Datasheet-2	17.11.2016
PGN-100-01-6R1	Datasheet-3	17.11.2016
Vst-03	Label	06.11.2020
PGU-100-01-6R1	Datasheet-4	29.09.2020
PGV-100-01-6R1	Datasheet-5	29.09.2020

Certificate History

Supplement N°	Supplement Date	Summary Description of Variation
01	12.11.2020	-New type addition: GU, GV, AP, AC, AN, AU, AV type -Standard update: New EN ISO 80079-36 and 37, EN IEC 60079-0 -Directive change: New 2014/34/EU
00	03.04.2017	First issue of certificate

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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