IEP ENERGY PETROLEUM INSTITUTE

IEP ATEX

(1) # EU- Internal Production Control Certificate

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

Directive 2014/34/EU

(3) EU – Internal Production Control Certificate Number: **IEP 17 ATEX 0512X**

(4) Product: **Valves, Types E1XX, E3XX, E5XXand E6XX**

(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/XIII to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1109 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 13463-8/2003

(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-Internal Production Control 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. Validity date 10 year. If standard or product change, this certificate is invalid.

(12) The marking of the equipment or protective system shall include the following :

Ex **II ½ G c k**

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 0512X**

(15) Description of Equipment Protective System;

Valves are industrial mechanic equipments. Valves is used to open or cut off the flow adjustment of liquid flow. Valves are working with a system except for manpower. These system actuators, pneumatic, hydraulic, etc. are systematically driven.

It can even operate full-automatic way in all weather conditions where nobody and no electric power exist. Various types are available depending on the geographical requirements, engineering requirements and operating conditions.

E1XX Plug valves are being used for mechanical pipelines as on/off valve.
E3XX Globe valves are used for regulating and throttling at various pressures or flow rates and can suit to lines with frequent on/off operations.
E5XX Gate valves are being used for general application as on/off and isolation valve.
E6XX Ball valves are being used for mechanical pipelines as on/off valve and can be used at above ground, underground, submer ground or off shore applications. Compact ball valves are used drain, vent or instrumental connection.

Technical specifications of valves;

Working pressure by pressure class for WCB Material

	Temperature	150#	300#	600#	900#	1500#	2500#
E1XX	-29 ~ +38℃	19,6 bar	51 bar	102 bar	153 bar	256 bar	425,5 bar
Plug Valve	+425℃	5,5 bar	29 bar	58 bar	86 bar	144 bar	240 bar
E3XX	-29 ~ +38℃	19,6 bar	51 bar	102 bar	153 bar	256 bar	425 bar
Globe Valve	+425℃	5,5 bar	29 bar	58 bar	86 bar	144 bar	240 bar
E5XX	-29 ~ +38℃	19,6 bar	51 bar	102 bar	153 bar	256 bar	425,5 bar
Gate Valve	+425℃	5,5 bar	29 bar	58 bar	86 bar	144 bar	240 bar
E6XX	-29 ~ +38℃	19,6 bar	51 bar	102 bar	153 bar	256 bar	425,5 bar
Ball Valve	+200℃	13,8 bar	43,8 bar	87,6 bar	131,4 bar	219 bar	365 bar

For API 6A valves

	Temperature	API 2000	API 3000	API 5000	API 10000
E5XX	-29 ~ +38℃	138 bar	207 bar	345 bar	690 bar
Gate Valve	+425℃	76 bar	130 bar	200 bar	330 bar

(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 valves have to be observed manufacturer's manuals.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

(17) Schedule and Certificate Nr: **IEP 17 ATEX 0512X**

(18) Product Coding System

E1X X Plug Valve

- 0 - Plug Valve (2" to 72")
- 1~ 6 –pressure class coding for forged compact (1/2" to 2")
- All pressure classes (150# to 2500# (19,6 bar to 425,5 bar))
- Type of Valves (Plug Valves)

E3X X Globe Valve

- 0 - Globe Valve (2" to 56")
- 4 – Forged Body Compact 800# (1/2" to 2")
- 5 – Forged Body Compact 1500# (1/2" to 2")
- All pressure classes (150# to 2500# (19,6 bar to 425,5 bar)) except for forged compact valves
- Type of Valves (Globe Valves)

E5X X Gate Valve

- 0 – Wedge (2" to 72")
- B – Slab (2" to 72")
- D – Expanding (2" to 72")
- A – API 6A Type (2" to 72")
- S – Knife (2" to 72")
- 1-6 – pressure class coding for forged compact (1/2" to 2")
- All pressure classes (150# to 2500# (19,6 bar to 425,5 bar) or API 2000 to API 10000 (138 bar to 690 bar) for API 6A valves)
- Type of Valves (Gate Valves)

E6X X Ball Valve

- 1 – Side Entry (2" to 56")
- T – Top Entry (2" to 56")
- M - Full Welded (2" to 56")
- 4 – Split Body Compact (1/2" to 2")
- 5 – Full Welded Compact (1/2" to 2")
- All pressure classes (150# to 2500# (19,6 bar to 425,5 bar))
- Type of Valves (Ball Valves)

(19) List of Documentation:

For E1XX plug valves;

- Plug valve user manual : 23 pages, dated 16.10.2016
- Component Lists : Part – 5.1 dated 23.05.2016
- Mounting Pictures and Technical Drawings : Part – 4.1/ 2 16 pages
- Certificates and Test Reports : Part – 5.2 89 pages

Responsible Person :
Nurettin Terzioglu
Head of Certification Body

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(20) Schedule and Certificate Nr: **IEP 17 ATEX 0512X**

(21) List of Documentation:

- Drawings;

Drawing No	Drawing Name	Drawing Date
Elbl	Label	04.10.2016
E130.18-ORO	Plug valve part list	19.08.2010
E13-150-00-9R1	6"e13 Assembly	09.09.2009
E13-150-01-9R1	6"e13 Body	09.09.2009
E13-150-3f-9R1	6"e13 Coupling/Retainer	09.09.2009
E13-150-04-9R1	6"e13 Stem	09.09.2009
E13-150-07-9R1	6"e13 Gland	09.09.2009
PVD100-150-4-6R1	6 Vd100 Plug	09.09.2009
E13-150-1a-9R1	6"e13 Cover	09.09.2009
E104-25-1-5R0	1"e104 Plug Valve Body	14.02.2014
E104S-25-04-4R1	1"e104 Plug Valve Plug	10.04.2014
PE104-25-08-1R0	1"e104 Plug Valve Stopper	25.03.2011
PE104-25-07-1R0	1"e104 Plug Valve Retainer	25.03.2011
PE104-25-06-1R0	1"e104 Plug Valve Gland	21.10.2009
PE104-25-05-1R1	1"e104 Plug Valve Lever	30.03.2010
PE104-25-03-9R0	1"e104 Plug Valve Bonnet	08.07.2009

For E3XX globe valves;

- Globe valve user manual : 52 pages, dated 10.10.2016
- Component Lists : Part – 5.1 dated 16.06.2016
- Mounting Pictures and Technical Drawings : Part – 4.1/ 2 29 pages
- Certificates and Test Reports : Part – 5.2 62 pages
- Drawings;

Drawing No	Drawing Name	Drawing Date
VA-FIG-E3-6R0	Figure Expansion Of Globe Valves	11.05.2016
E310.11-9R0	Bolted Bonnet Steel Globe Valves	01.04.2009
C1310-100.02-4R0	4" E310 Globe Valve Body	14.01.2014
C2310.100-03-4R0-1	4"e310 Globe Valve Bonnet	07.01.2014
C0143.100-02-4R0	4"e310 Globe Valve Disc	07.01.2014
C4300.100-02-4R0	4"e310 Globe Valve Stem	07.01.2014
C0144.01	Thread Nut E3	07.01.2014
C0120.02	E3 Subgroup	07.01.2014
C0110.05-3R0	E0 Gland Flanges	07.01.2014
C2310.100-02-4R0-1	4"e310 Globe Valve Yoke Flange	07.01.2014
C2310.100-01-4R0-1	4"e310 Globe Valve Yoke	07.01.2014
E304XX.13-4R0	Forged Steel Globe Valves	10.09.2014
C304.15.11	800 Class Forged Steel Globe Valve Assembly	05.09.2011
C304.15.02	800 Class Forged Steel Globe Valve Boned	05.09.2011
C304.15.01	Forged Steel Globe Valve Body	05.09.2011
C304.15.09	Forged Steel Globe Valve Hand wheel	05.09.2011
C304.15.05	Forged Steel Globe Valve Stem	05.09.2011
C304.15.09	Forged Steel Globe Valve Stem Bush	05.09.2011
C304.15.04	Forged Steel Globe Valve Gland	05.09.2011
C304.15.03	Forged Steel Globe Valve Disc	05.09.2011
C304.15.07	Forged Steel Globe Gland Flange	05.09.2011
C304.15.08	Forged Steel Globe Valve Gland Eye Bolt	05.09.2011

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

(22) Schedule and Certificate Nr: **IEP 17 ATEX 0512X**
(23) List of Documentation:

For E5XX gate valves;

- Gate valves user manual : 52 pages, dated 10.10.2016
- Component Lists : Part – 5.1 dated 16.06.2016
- Mounting Pictures and Technical Drawings : Part – 4.1/ 2 65 pages
- Certificates and Test Reports : Part – 5.2 87 pages
- Drawings;

Drawing No	Drawing Name	Drawing Date
VA-FIG-E5-6R1	Figure Expansion Of Gate Valves	28.04.2016
E520-300-4R1	Wedge Gate Valve Assembly	01.10.2014
E520-300-1-4R1	Wedge Gate Valve Body	01.10.2014
E520-300-1a-4R1	Wedge Gate Valve Bonnet	01.10.2014
E520-300-12c-4R1	Wedge Gate Valve Yoke Shaft	01.10.2014
E520-300-12b-4R0	Wedge Gate Valve Yoke Flange	01.10.2014
E520-300-12a-4R0	Wedge Gate Valve ISO Flange	01.10.2014
E520-300-4-4R0	Wedge Gate Valve Stem	01.10.2014
06E51B-3-01-5R0	6"e51b Disc	28.07.2015
06E51B-1-01-5R0	6"e51b Body	28.07.2015
06E51B-1a-01-5R0	6"e51b Bonnet	28.07.2015
06E51B-4-01-5R0	6"e51b Stem	29.07.2015
06E51B-2-01.5R0	6"e51b Seat Ring	27.07.2015
06E51B-7-01-5R0	6"e51b Gland	28.07.2015
06E51B-12a-01-5R0	6"e51b Yoke Flange	29.07.2015
06E51B-12-01-5R0	6"e51b Yoke	29.07.2015
06E51B-12d1-01-5R0	6"e51b Isof10 Flange	28.07.2015
06E51B-12d2-01-5R0	6"e51b Bushing Flange	28.07.2015
E56DJ-100-3.1-5R0	Double Expansion Conduit Gate Valve Disc-1	29.06.2015
E56DJ-100-3.2-5R0	Double Expansion Conduit Gate Valve Disc-2	29.06.2015
E56DJ-100-1-5R1	Double Expansion Conduit Gate Valve Body	29.06.2015
E56DJ-100-1a-5R1	Double Expansion Conduit Gate Valve Bonnet	29.06.2015
E56DJ-100-7-5R0	Double Expansion Conduit Gate Valve Gland	29.06.2015
E56DJ-100-4-5R0	Double Expansion Conduit Gate Valve Stem	29.06.2015
E56DJ-100-12b-5R0	Double Expansion Conduit Gate Valve Yoke Flange	29.06.2015
E56DJ-100-12c-5R0	Double Expansion Conduit Gate Valve Yoke Shaft	29.06.2015
E56DJ-100-13-5R0	Double Expansion Conduit Gate Valve Gasket	29.06.2015
E56DJ-100-2-5R0	Double Expansion Conduit Gate Valve Seating	29.06.2015
E56DJ-100-6-5R0	Double Expansion Conduit Gate Valve Packing	30.09.2015
E56A-80-5R0	Through Conduit Gate Valve Assembly	12.01.2015
E56A-80-1-5R0	Through Conduit Gate Valve Body	12.01.2015
E56A-80-1a-5R0	Through Conduit Gate Valve Bonnet	12.01.2015
E56A-80-7-5R0	Through Conduit Gate Valve Gland	12.01.2015
E56A-80-13-5R0	Through Conduit Gate Valve Rtj Gasket	12.01.2015
E56A-80-6a-5R0	Through Conduit Gate Valve Lantern	12.01.2015
E56A-80-2-5R0	Through Conduit Gate Valve Seating	12.01.2015

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(24) Schedule and Certificate Nr: **IEP 17 ATEX 0512X**

(25) List of Documentation:

Drawing No	Drawing Name	Drawing Date
E56A-80-8-5R0	Through Conduit Gate Valve Cover	12.01.2015
E56A-80-4-5R0	Through Conduit Gate Valve Stem	12.01.2015
E56A-80-3-5R0	Through Conduit Gate Valve Disc	12.01.2015
E57A-80-11-3R0	3,06" E57A.17 STEM BUSHİNG	10.05.2013
E56A-80-4a-5R1	Through Conduit Gate Valve Cassette	12.01.2015
E52S-16X	Body Assembling	18.04.2016
E52S-16X	Body	18.04.2016
E52S-16X	Body Seat Ring	18.04.2016
E52S-16X	Disc	18.04.2016
E52S-16X	Yoke Flange	18.04.2016
E52S-16X	Bushing Cap	18.04.2016
E52S-16X	Yoke Neck	18.04.2016
E52S-16X	Bonnet Neck	18.04.2016
E52S-16X	Yoke	18.04.2016
E52S-16X	Stem	18.04.2016
C504.15.02	Forget Steel Gate Valve Bonnet	05.09.2011
C504.15.01	Forget Steel Gate Valve Body	05.09.2011
C504.15.19	Forget Steel Gate Valve Hand wheel	05.09.2011
C504.15.08	Forget Steel Gate Valve Gland Eye Bolt	05.09.2011
C504.15.06	Forget Steel Gate Valve Stem Bush	05.09.2011
C504.15.07	Forget Steel Gate Valve Gland Flange	05.09.2011
C504.15.05	Forget Steel Gate Valve Stem	05.09.2011
C504.15.04	Forget Steel Gate Valve Gland	05.09.2011
C504.15.03	Forget Steel Gate Valve Wedge	05.09.2011
C504.15.10	Forget Steel Gate Seat Ring	05.09.2011

For E6XX ball valves;

- Ball valves user manual : 173 pages, dated 20.04.2016
- Component Lists : Part – 5.1 dated 03.06.2016
- Mounting Pictures and Technical Drawings : Part – 4.1/ 2 55 pages
- Certificates and Test Reports : Part – 5.2 68 pages
- Drawings;

Drawing No	Drawing Name	Drawing Date
VA-FIG-E6-6R1	Figure Expansion Of Ball Valves	07.04.2016
PVB631-150-1-2R1	6 Vb631 Body	10.02.2012
PVB631-150-1a-2R1	6 Vc631 Body Flange	10.10.2012
PVB631-150-2-1R0	6 Vr600 Seat ring	18.03.2011
VA-DATA-SP-03.0R4	Compression Springs Aısı Type 302 For Ball Valves	18.08.2010
PVS600-150-10-3R0	Ø45 Stem Group Assembly	09.11.2013
PVH600-150-4d-4R1	Ø45 Vh600 Retainer	09.11.2013
PVH600-150-3b-2R0	6 Vh600 Trunnion Guide	10.10.2012
PVS600-150-4-3R0	Ø45 VS600 STEM	09.11.2013

Responsible Person :

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(26) Schedule and Certificate Nr: **IEP 17 ATEX 0512X**

(27) List of Documentation:

Drawing No	Drawing Name	Drawing Date
PVGL600-150-7-3R0	Ø45 VGL600 GLAND	09.11.2013
PVGF600-150-12b-3R0	Ø45 VGF600 MOUNTING FLANGE	09.11.2013
E605N-40-2R0	1 1/2" E605 Ball Valve Full Bore	02.05.2012
E605N-40-1a-2R0	1 1/2" E605 Ball Valve Body Part	01.06.2012
E605N-40-1-2R0	1 1/2" E605 Ball Valve Body(Full Bore Npt)	01.06.2012
E605-40-03-9R0	E605 1 1/2" Ball Valve Stem	09.07.2009
E605-40-03-9R0	E605 1 1/2" Ball Valve Ball Full Bore	09.07.2009
E605-40-04-9R0	E605 1 1/2" Ball Valve Ball Full Bore	09.07.2009
E605-40-2-2R1	1 1/2" E605 Ball Valve Seat ring Full Bore	06.06.2012
E605-40-05-9R0	E605 1 1/2 Ball Valve Gland	09.07.2009
E605-40-08-9R0	E605 1 1/2 Ball Valve Stopper	13.07.2009
E605-40-07-9R0	E605 1 1/2 Ball Valve Arm	09.07.2009
PVB62T-150-1-5R0	06 Vb62t Body	22.04.2015
PVC62T-150-1a-5R0	06 Vb62t Bonnet	21.04.2015
PVRS63T-150-4c-5R0	06 Vrs63t Te Seat ring Assembly	30.03.2015
PVRSR63T-150-4-5R0	06 Vrsr63t Te Seat ring	30.03.2015
PVS62T-150-4-5R0	06 Vs62t Stem	09.04.2015
PVGF62T-150-5-5R0	06 Vgf62t Gland Flange	15.04.2015
PE62T-150-5c-5R0	06 E62t Ball Retainer	25.05.2015
PE62T-150*250-6c-5R0	06-10-E62t Eccentric Pin	25.05.2015
PVB63M-150-1-2R1	6 Vb63m Body	10.10.2012
PVC63M-150-1a-2R0	6 Vc63m Body Flange	10.10.2012
PVR600-150-2-1R0	6 Vr600 Seat ring	18.03.2011
VA-DATA-SP-03.0R4	Compression Springs Alsı Type 302 For. Ball Valves	18.08.2010
PVS600-150-10-3R0	Ø45 STEM GROUP ASSEMBLY	09.11.2013
PVH600-150-4d-4R1	Ø45 VH600 RETAINER	09.11.2013
PVH600-150-3b-2R0	6 Vh600 Trunnion Guide	10.10.2012
PVS600-150-4-3R0	Ø45 VS600 STEM	09.11.2013
PVGL600-150-7-3R0	Ø45 VGL600 GLAND	09.11.2013
PVGF600-150-12b-3R0	Ø45 VGF600 MOUNTING FLANGE	09.11.2013
E604-15-1-03-5R0	1/2" E604 Body	23.02.2015
E604-15-1A-04-5R0	1/2" E604 Insert	13.01.2015
E604-15-2b-01-5R0	1/2" E604 Delta Ring	13.01.2015
E604-15-2-02-5R0	1/2" E604 Seat Ring	13.01.2015
E604-15-2d-02-5R0	1/2" E604 Seat Retainer	13.01.2015
E604-15-3-01-5R0	1/2" E604 Stem	13.01.2015
E604-15-7a-01.5R0	1/2" 3/4 E604 Stopper	13.01.2015
E604-15-08-5R0	E 604 1/2" Ball Valve Stopper	09.07.2009
E614-15-17-01-5R0	1/2" E604 Lever	17.09.2015

For the validity of analysis type certificate, the parts that are used in valves are determined separately in confirmed part list in technical file.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 03.04.2017

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