

Supplement Nr:01**EU-Type Examination Certificate**

(1)

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU**(3) EU – Type Examination Certificate Number: **IEP 15 ATEX 0341X**(4) Equipment: **GMP ,GMPT ,GMVP ,GMVT ,GVP Series Liquid Ring Vacuum Pump**(5) Firm Name: **GÜCÜM Pompa Makina Sanayi ve Ticaret A.Ş.**(6) Firm Address: **Çerkeşli OSB Mah. İmes-23 Cad. Gücüm Pompa No:6 Dilovası****KOCAELİ / TÜRKİYE**

(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.10-789-1 date 03.03.2023.

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

EN ISO 80079-36: 2016, EN ISO 80079-37: 2016

(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 ½ G Ex h IIC T4 Ga/Gb****Responsible Person :**Nurettin Terzioglu
Head of Certification Body**Supplement Nr:01 Date of issue : 06.03.2023****IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.**

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Fr:45

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(13) Schedule

(14) Certificate Nr: **IEP 15 ATEX 0341X**

(15) Description of Equipment: Vacuum pump body is made of cast iron or steel. Pump shaft is made of stainless steel and pump fan is made of bronze. GMVP, GVP, GMP, GMVT and GMPT type vacuum pumps are manufactured the effective place with various materials. Single and two stage pumps are fixed on an NPU steel profile base and connected to electrical motor with elastic coupling. Mono block pumps are directly connected to the motor with flanges. Motor and coupling must be ATEX-certified. GMVP, GVP, GMP, GMVT and GMPT type vacuum pumps consists of 28 parts. Equipments list number 5. Isolation material is glass fiber, nbr and viton.

Product Code System and Technical Specifications:

G M P **X X X** L **X X X**
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Pump Type - Impeller Diameters - Impeller Size

Pump Type:

GMVP : Mono block
GVP, GMP : Two Stage
GMVT, GMPT : Single Stage

Technical Specifications:

Performance Criteria	GMVP Type	GVP Type	GMP Type	GMVT Type	GMPT Type
Capacity (m ³ /h)	25-270	150-860	54-610	630-1700	2100-2700
Pressure (mmHg)	-735	-735	-735	-735	-680
Strength (Kw)	0,75-11	5,5-30	3-22	15-45	55-90
Service Water (lt/min)	4-25	14-65	6-50	50-100	150-210
Connection Dimensions	G 1''-G 1 ½'' DN 40-DN 65	DN 40-DN 80	DN 32-DN 65	DN 100 DN 125	DN 200
Number of Revolutions(rpm)	2850-1450	1450	1450	1450-980	735

(16) Essential Health and Safety Requirements:

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

16.2 At the installation and the operation of the GMVP, GVP, GMP, GMVT and GMPT type vacuum pumps have to be observed manufacturer's manual dated 42 pages.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body





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(17) Certificate Nr: **IEP 15 ATEX 0341X**

(18) List of Documentation:

- ♦ GMVP, GVP, GMP, GMVT and GMPT type vacuum pumps user manual [18 page]
- ♦ Part 5 ; Component Lists date 15.06.2022
- ♦ Part 4 ; Mounting Pictures and Technical Drawings [123 page]
- ♦ Part 5 and 10 ; Certificates and Test Reports [35 page]
- ♦ Risk Analysis Report: EN ISO 80079-36, date 26.01.2023

(19) Essential Health and Safety Requirements:

19 .1 Are included in standards , which are mentioned in clause (9) of this certificate. The products was approved in accordance with above mentioned standards and manufacturer's instruction.

19 .2 At the installation and the operation of the GMP ,GMPT ,GMVP ,GMVT ,GVP series liquid ring vacuum pump have to be observed manufacturer's manual dated 18 pages.

(20) Drawings:

Drawing Nr;	Drawing Name;	Date;
GMVP200-Y30/01-15	Fan	17.06.2004
GMVP200-Y30/02-11	Circle Plate	18.06.2004
GMVP200-Y30/07-32	Step Plate	03.06.2010
GMVP200-Y30/11-02	Stand	21.06.2004
GMVP200-Y30/52-32	Fan Cover	28.06.2004
GMVP200-Y30/53-41	Fan Stamp	28.06.2004
GMVP200-Y30/54-51	Flap	30.06.2004
GMVP200-Y30/55-32	Flap Sheet	18.04.2005
GMVP230-Y28/01-15	Fan	20.07.2009
GMVP230-Y28/02-11	Circle Plate	21.07.2009
GMVP230-Y28/07-32	Step Plate	01.04.2008
GMVP230-Y28/11-02	Foot	16.07.2009
GMVP230-Y29/52-33	Fan Cover	27.07.2009
GMVP230-Y28/53-41	Fan Stamp	28.07.2009
GMVP230-Y28/54-51	Flap	28.07.2009
GMVP230-Y28/55-32	Flap Sheet	28.07.2009
GMP230-Y88/01-15	Fan	22.06.2015
GMP230-Y88/02-02	Circle	28.02.2013
GMP230-Y88/03A	Shaft	26.07.2004
GMP230-Y88/03B	Shaft	26.07.2004
GMP230-Y88/03C	Shaft	26.07.2004
GMP230-Y88/07	Front Stand	28.07.2004
GMP230-Y88/08	Rear Stand	19.08.2004
GMP230-Y88/04	Front Foot Steps Plate	12.08.2004
GMP230-Y88/04	Stage Between The Front Plate	11.08.2004

Responsible Person :

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(21) Certificate Nr: **IEP 15 ATEX 0341X**

(22) Drawings:

Drawing Nr;	Drawing Name;	Date;
GMP230-Y88/06	Stage Between The Rear Plate	11.08.2004
GMP230-Y88/06	Rear Plate Stand Steps	16.08.2004
GMP230-Y88/18-02	Bearing (Mechanical)	19.03.2013
GMP230-Y88/11	Bearing Cover	10.08.2014
GMP230-Y88/12	Mounting Drawing	26.08.2004
GMP230-Y88/14	Bearing Tightening Nut	24.06.2005
GMP230-Y88/15	Fan Tightening Bolt	24.06.2005
GMP230-Y88/17	Tension Bolt	17.02.2005
GMP230-Y88/16	Packing Snapping Stamp	24.06.2005
GMP230-Y88/18	Bush Call	27.06.2005
GVP230-Y36/01-15	Fan	08.09.2005
GVP230-Y36/02-21	Circle	28.02.2013
230120-Y36/06-32	Shaft (Mechanical)	04.02.2013
230160-Y36/06-32	Shaft (Mechanical)	04.02.2013
230220-Y36/06-32	Shaft (Mechanical)	04.02.2013
GVP230-Y36/07-11	Front Foot Steps Plate	18.02.2013
GVP230-Y36/08-11	Plate Stand Steps	06.02.2013
GVP230-Y36/10-11	Rear Plate Stand Steps	18.02.2013
GVP230-Y36/15-02	Stand - Front	28.01.2013
GVP230-Y36/16-02	Stand - Rear	28.01.2013
GVP230-Y36/18-02	Bearing (Mechanical)	22.02.2013
GVP230-Y36/19-02	Bearing Cover (Front)	18.03.2013
GVP230-Y36/20-02	Bearing Cover (Rear)	18.03.2013
GVP230-Y36/28-21	Interconnection	23.06.2015
GVP230-Y36/27-21	Body	23.06.2015
GVP230-Y36/51-33	Bearing Nut	23.06.2015
GVP230-Y36/52-33	Fan Nut	23.05.2015
GVP230-Y36/55-33	Packing Stamp	23.06.2015
GVP230-Y36/50-42	Tension Bolt	21.07.2014
GVP230-Y36/53-33	Bush Mid	23.06.2015
GMVT275-Y87/01-15	Fan	24.07.2008
GMVT275-Y87/02-21	Circle	20.02.2009
275260-Y87/06-32(03A)	Shaft	12.03.2009
275260-Y87/06-32(03B)	Shaft	12.03.2009
275300-Y87/06-32(03C)	Shaft	12.03.2009
GMVT275-Y87/07-32	Step Plate	01.04.2008
GMVT275-Y87/15-02	Stand - Front	18.02.2009
GMVT275-Y87/16-02	Stand - Rear	18.02.2009
GMVT275-Y87/18-02	Mechanical Seals Bearing	04.10.2006
GMVT275-Y87/19-2	Bearing Cover	03.10.2006
275220-Y87/27-21(09A)	Body	05.03.2009

Responsible Person :

Nurettin Terzioglu
Head of Certification Body





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(23) Certificate Nr: **IEP 15 ATEX 0341X**

(24) Drawings:

Drawing Nr;	Drawing Name;	Date;
275260-Y87/27-21(09B)	Body	05.03.2009
275300-Y87/27-21(09C)	Body	05.03.2009
GMVT275-Y87/28-02	Interconnection	20.02.2009
GMVT275-Y87/50-42	Tension Bolt	12.03.2009
GMVT275-Y87/51-41	Bearing Fixing Nut	02.03.2009
GMVT275-Y87/52-41	Fan Fixing Nut	28.02.2009
GMVP270-Y29/54-51	Flap	18.04.2005
GMVP270-Y29/55-32	Flap Sheet	18.04.2015
GMVT275-Y87/55-41	Mechanic Stamp	27.02.2009
GMPT520-Y49/01-15	Fan	04.02.2005
GMPT520-Y49/02-21	Circle	11.03.2013
520400-Y49/06-32(03A)	Shaft (Mechanical)	25.06.2015
520530-Y49/01-15(03B)	Shaft (Mechanical)	25.06.2015
520600-Y49/06-32(03C)	Shaft (Mechanical)	25.06.2015
GMPT520-Y49/07-11	Stand - Front	26.06.2015
GMPT520-Y49/10-11	Stand - Rear	26.06.2015
GMPT520-Y49/12-02	Stand (Mechanical)	22.07.2008
GMPT520-Y49/18-02	Bearing (Mechanical)	25.06.2015
GMPT520-Y49/19-02	Bearing Cover (Front)	16.05.2006
GMPT520-Y49/20-02	Bearing Cover (Front)	16.05.2006
GMPT520-Y49/28-21	Weft (Vacuum)	25.06.2015
GMPT520-Y49/28-21	Weft (Exhaust)	25.06.2015
GMPT520-Y49/27-21	Frame	25.06.2015
GMPT520-Y49-51-33	Bearing Nut	05.02.2005
GMPT520-Y49/52-33	Fan Nut	05.02.2005
GMPT520-Y49/53-41	Fan Stamp	05.02.2005
GMPT520-Y49/50-42	Tension Bolt	17.02.2005
GMPT520-Y49/47-21	Coupling Housing	23.06.2015
GMPT520-Y49/26-02	Water Inlet Flange	04.02.2005
GMVP 120/030-01	Dimensions Of The Pump	29.06.2015
GMVP 120/050-02	Dimensions Of The Pump	29.06.2015
GMVP 145/050-03	Dimensions Of The Pump	29.06.2015
GMVP 145/080-04	Dimensions Of The Pump	29.06.2015
GMVP 200/055-05	Dimensions Of The Pump	29.06.2015
GMVP 200/065-06	Dimensions Of The Pump	29.06.2015
GMVP 200/085-07	Dimensions Of The Pump	29.06.2015
GMVP 230/090-08	Dimensions Of The Pump	29.06.2015
GMVP 230/120-09	Dimensions Of The Pump	29.06.2015
GMVP 270-110-10	Dimensions Of The Pump	29.06.2015
GMVP 270/155-11	Dimensions Of The Pump	29.06.2015

Responsible Person :

Nurettin Terzioglu
Head of Certification Body





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(25) Certificate Nr: IEP 15 ATEX 0341X

(26) Drawings:

Drawing Nr;	Drawing Name;	Date;
GVP 200/120-14	Dimensions Of The Pump	29.06.2015
GVP 200/170-15	Dimensions Of The Pump	29.06.2015
GVP 230/120-16	Dimensions Of The Pump	29.06.2015
GVP 230/160-17	Dimensions Of The Pump	29.06.2015
GVP 230/220-18	Dimensions Of The Pump	29.06.2015
GMP 230/160-19	Dimensions Of The Pump	30.06.2015
GMP 230/200-20	Dimensions Of The Pump	30.06.2015
GMP 250/160-21	Dimensions Of The Pump	30.06.2015
GMP 250-200-22	Dimensions Of The Pump	30.06.2015
GMP 250/240-23	Dimensions Of The Pump	30.06.2015
GVP 275/160-24	Dimensions Of The Pump	01.07.2015
GVP 275/220-25	Dimensions Of The Pump	01.07.2015
GVP 275/260-26	Dimensions Of The Pump	01.07.2015
GMVT 275/220-27	Dimensions Of The Pump	30.06.2015
GMVT 275/260-28	Dimensions Of The Pump	30.06.2015
GMVT 275/300-29	Dimensions Of The Pump	30.06.2015
GMVT 410/260-30	Dimensions Of The Pump	30.06.2015
GMVT 410/320-31	Dimensions Of The Pump	30.06.2015
GMVT 410/400-32	Dimensions Of The Pump	30.06.2015
GMPT 520/400-33	Dimensions Of The Pump	01.07.2015
GMPT 520/530-34	Dimensions Of The Pump	01.07.2015
GMPT 520/600-35	Dimensions Of The Pump	01.07.2015

For the validity of analysis type certificate, the parts that are used in GMVP, GVP, GMP, GMVT and GMPT type vacuum pumps are confirmed in the list of equipment part 5.

Certificate History;

Supplement Nr	Supplement Date	Summary Description of Variation
01	06.03.2023	Upgrade to ATEX directive 2014/34/EU, Standard Update, Company name and address change
00	01.09.2015	First issue of certificate

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Nr:01 Date of issue : 06.03.2023

