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 18 ATEX 0561**

(4) Equipment: **CVS x Series , (AF, RF, WA type) Axial Fans**

(5) Manufacturer: **CVS Havalandırma Sistemleri Sanayi ve Ticaret A.Ş.**

(6) Address: **Orta Mah. Tevfik İleri Cad. No: 32/1 Pendik / İSTANBUL – TURKEY**

(7) Production Address : **Fatih Mah. 103 Sokak No:48 Bayırköy / BİLECİK– TURKEY**

(8) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(9) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., 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.10-1214 date 05.09.2018.

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

EN 14986 : 2007 , EN 60079-0 : 2013 , EN ISO 80079-36:2016 , EN ISO 80079-37:2016

(11) 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.

(12) 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.

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

II 2G Ex db or eb IIC T4 Gb (engine)
II 2D Ex tb IIIB T130 °C Max (engine)
II 2GD Ex h IIC/IIIB T4 Gb/Db (Fans)

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

Date of Issue: 06.09.2018

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(14) Schedule

(15) Certificate Nr: **IEP 18 ATEX 0561**

(16) Description of Equipment:

CVS series axial fans are single inlet. Fans used for ventilation purposes. This device the electrical axial fans. These devices are used for IIC gas group and IIIB dust group explosive atmospheres.

Axial fan with adjustable blade pitch angle at standstill, long cylindrical casing with flanges on both ends, direct driven, explosion proof according to ATEX. Cylindrical duct casing in S235JR steel, covering impeller (motor protrudes at rear). Rolled flanges at both ends. Dimensions and flange drillings to Explosion-proof execution according to ATEX.

Description of equipment protective system axial fan mechanical and electrical parts list is part 2.6 and date 26.10.2017.

Axial Fans are used as external zone 1, 21 or zone 2, 22 and interior zone 1,21 that be used danger area determined in the EN 60079-10-1/2 standard.

Information's of assembled working of Axial Fans with order related equipment's exist in instruction manual with 16 pages and date 05.10.2017.

CVS x Series (AF, RF, WA type) Axial Fans Technical Parameters:

Type	Capacity		Motor Power		Motor Speed	Hub Size Min	Hub Size Max
Model	Min (m3/h)	Max (m3/h)	Kw(min)	Kw (Max)	(rpm)	(mm)	(mm)
CVS – Ø400	1000	11000	0,75	2,2	1500 - 3000	160	200
CVS – Ø450	1500	15000	1,5	3		160	200
CVS – Ø500	5000	21500	4	5,5		160	290
CVS – Ø560	8500	28000	4	7,5		160	290
CVS – Ø630	4000	33500	4	11		160	290
CVS – Ø710	10000	30000	2,2	4		160	290
CVS – Ø800	16000	42000	4	7,5		160	290
CVS – Ø900	15000	57500	5,5	15		160	380
CVS – Ø1000	20000	87500	7,5	30		160	380
CVS – Ø1120	27000	102000	11	30		280	380
CVS – Ø1250	29000	130000	15	45		280	380
Air / Gas Transition Max 80 °C							
Ambient Temperature Max (-20 ~ +40 °C)							

(17) Special conditions for safe use

The installation and the operation of the axial fans has to confirm to the relevant national regulations.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

(18) Certificate Nr: **IEP 18 ATEX 0561**

(19) Essential Health and Safety Requirements:

19.1 Are included in standards, which are mentioned in clause (10) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

19.2 At the installation and the operation of the axial fans has to be observed manufacturer's manual 16 pages dated 05.10.2017.

(20) List of Documentation:

- Axial fans user manual : 16 pages, dated 05.10.2017
- Component lists : Part 2.6 dated 26.10.2017
- Mounting pictures and technical drawings : 10 pages Part 2
- Certificates and test reports : 49 pages, Part 4
- Drawings;

Drawing Nr	Drawing Name	Date
CVS-01	Exploded Picture – AF tunnel type	11.08.2017
CVS-02	Exploded Picture – RF roof type	11.08.2017
CVS-03	Exploded Picture – WA Wall type	11.08.2017
CVS-04	Dimensions – AF tunnel type	11.08.2017
CVS-05	Dimensions – RF roof type	11.08.2017
CVS-06	Dimensions – WA Wall type	11.08.2017
CVS-07	Electrical Mechanical Connection Shame	11.08.2017
CVS-08	Rotor – Body gaps	11.08.2017
CVS-09	Security details	11.08.2017
CVS-10	Label	11.08.2017

For the validity of analysis type certificate, the parts that are used in radial fans is determined in confirmed the list of equipment's part 2,6 and date 26.10.2017.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 06.09.2018