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 19 ATEX 0708X**

(4) Product: **M-VEN-M and M-VEN-N Series Unarmoured Cable Glands**

(5) Firm Name **MSM Mühendislik Elektromekanik San. Tic. Ltd. Şti.**

(6) Firm Address: **Barbaros Mah. Evren Cad. No : 38 Ataşehir / İSTANBUL**

(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 veTeknik 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.10-1492 date 24.06.2019.

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

EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X"is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for 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:

I M2 Ex db/eb I Mb
II 2G Ex db/eb IIC Gb
II 1D Ex tb IIIC Da

Responsible Person :

NurettinTerzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE IEP ATEX NB 2284 INSPECTION AND CERTIFICATION

Date of Issue : 25.06.2019

IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.
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(13) Certificate Nr: **IEP 19 ATEX 0708X**

(14) Technical Details:

M-VEN-M Series Unarmoured Cable Glands						
Product Code	Metric Size	Thread Length (mm)	Height (mm)	Spanner Width (mm) SW Cap	SW Body	Outer (mm)
M-VEN1M	M12x1,5	12	19	16	15	17,5
M-VEN2M	M16x1,5	12	21	20	19	22,5
M-VEN3M	M20x1,5	12	22	24	23	26,5
M-VEN4M	M25x1,5	12	23	30	28	33,5
M-VEN5M	M32x1,5	12	24	40	36	44
M-VEN6M	M40x1,5	12	27	50	50	55
M-VEN7M	M50x1,5	12	32	60	55	66
M-VEN8M	M63x1,5	12	35	65	65	72

M-VEN-N Series Unarmoured Cable Glands						
Product Code	NPT Size	Thread Length (mm)	Height (mm)	Spanner Width (mm) SW Cap	SW Body	Outer (mm)
M-VEN1N	1/4″	13	19	16	16	17,5
M-VEN2N	3/8″	13	21	20	19	22,5
M-VEN3N	1/2″	13	22	24	24	26,5
M-VEN4N	3/4″	13	23	30	30	33,5
M-VEN5N	1″	13	24	40	36	44
M-VEN6N	11/4″	13	27	50	50	55
M-VEN7N	11/2″	13	32	60	55	66
M-VEN8N	2″	13	35	65	65	72

(15) Cable Gland Series Type M-VEN-M and M-VEN-N made from according to brass. The ranges of cable glands are metallic and intended to terminate circular unarmoured and braided cables (as defined type designations) into a threaded entry point within associated flameproof, increased safety or dust tight enclosures (as defined by their coding). Cable gland sealing ring is made from silicone. Cable gland gasket is made from chloroprene rubber.

The M-VEN-M and M-VEN-N type range of cable glands are intended to terminate tape cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a front seal, a main body component, a rear seal, an actuating nut and a rear running coupling. The front entry component is intended to screw into an entry point of its associated enclosure. The seals are compressed onto the cable when the body component and actuating nut are tightened. Continuity diaphragm and skid washer is fitted behind the front seal.

Cable Gland Series Type M-VEN-M and M-VEN-N has been evaluate in the contents of IP 66/68 with by cable.

Responsible Person :
Nurettin Terzioglu

Head of Certification Body

(16) Certificate Nr: **IEP 19 ATEX 0708X**

(17) Technical Details;

Mechanical Material;
Brass to EN12164: Grade CuZn39Pb (CW614N)

Isolation Materials;
Silicone sealing ring : (-60 ; + 200) °C
Chloroprene gasket : (-30 ; + 105) °C

(18) Essential Health and Safety Requirements Of Annex II: This certificate is in the contents of standards that mentioned in item (9) It has been accepted that cable gland series type M-VEN-M and M-VEN-N are manufactured according to the producer instructions and the standards mentioned above.

(19) Drawings:

Drawing Nr;	**Drawing Name;**	**Date;**
M-VEN-M	General drawing	02.01.2019
M-VEN-M	Cap	02.01.2019
M-VEN-M	Body	02.01.2019
M-VEN-M	Gasket	02.01.2019
M-VEN-M	O-ring	02.01.2019
M-VEN-N	General drawing	02.01.2019
M-VEN-N	Cap	02.01.2019
M-VEN-N	Body	02.01.2019
M-VEN-N	Gasket	02.01.2019
M-VEN-N	O-ring	02.01.2019

(20) Installation must be done according to the manual. Manual 10 pages, dated 01.04.2019. If the chemical property of the material changes, the certificate becomes invalid. Part list 02.01.2019 , 1 page. The clamping forces must comply with the standard and installation instructions.

Responsible Person :

NurettinTerzioglu
Head of Certification Body

Date of Issue : 25.06.2019