(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 0719X**

(4) Product: **M-MERXM and M-MERXN Series Armoured 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.10-1515 date 16.08.2019.

(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

Date of Issue : 19.08.2019

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(13) Certificate Nr: **IEP 19 ATEX 0719X**

(14) Technical Details:

M-MERXM Series Armoured Cable Glands						
Product Code	Metric Size	Thread Size	Thread Length (mm)	Spanner Width (SW/D) SW	D	Nominal Protrusion Length (mm)
M-MER1M	M12x1,5	12	15	18	20	62
M-MER2M	M16x1,5	16	15	22	24,5	67
M-MER3M	M20x1,5	20	15	30	33,5	68
M-MER4M	M25x1,5	25	15	36	40,5	71
M-MER5M	M32x1,5	32	15	45	51,5	79
M-MER6M	M40x1,5	40	15	55	61,5	88
M-MER7M	M50x1,5	50	15	70	77,5	97
M-MER8M	M63x1,5	63	15	80	88,5	126
M-MER9M	M75x1,5	75	15	90	100	126

M-MERXN Series Armoured Cable Glands						
Product Code	NPT Size	Thread Size)	Thread Length (mm)	Spanner Width (SW/D) SW	D	Nominal Protrusion Length (mm)
M-MER1N	1/4"	13,176	15	18	20	62
M-MER2N	3/8"	17,145	15	22	24,5	68
M-MER3N	1/2"	21,336	15	30	33,5	71
M-MER4N	3/4"	26,670	18	36	40,5	74
M-MER5N	1"	33,401	18	45	51,5	84
M-MER6N	11/4"	42,164	18	55	61,5	93
M-MER7N	11/2"	47,800	18	60	77,5	107
M-MER8N	2"	60,325	20	75	88,5	113
M-MER9N	21/2"	73,025	22	80	100	126

(15) Cable Gland Series Type M-MERXM and M-MERXN made from according to MS 58 Brass, Brass nickel plated. The ranges of cable glands are metallic and intended to terminate circular armoured 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-MERXM and M-MERXN 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-MERXM and M-MERXN has been evaluate in the contents of IP 66/68 with by cable.

Responsible Person :
NurettinTerzioglu
Head of Certification Body

(16) Certificate Nr: **IEP 19 ATEX 0719X**

(17) Technical Details;

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

Isolation Materials;
Silicone sealing ring : (-60 ; + 180) °C
Chloroprene gasket : (-40 ; + 100) °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-MERXM and M-MERXN are manufactured according to the producer instructions and the standards mentioned above.

(19) Drawings:

Drawing Nr;	**Drawing Name;**	**Date;**
M-MER-M	Cap	02.01.2019
M-MER-M	Metric Cap	02.01.2019
M-MER-M	Cap Metric / NPT Silicone Rubber	02.01.2019
M-MER-M	General View	02.01.2019
M-MER-M	Metric Body	02.01.2019
M-MER-M	General drawing	02.01.2019
M-MER-M	Body Metric / NPT Silicone Rubber	02.01.2019
M-MER-M	Silicone O-ring	02.01.2019
M-MER-M	Nut	02.01.2019
M-MER-N	Cap	02.01.2019
M-MER-N	NPT Cap	02.01.2019
M-MER-N	Cap Metric / NPT Silicone Rubber	02.01.2019
M-MER-N	General View	02.01.2019
M-MER-N	NPT Body	02.01.2019
M-MER-N	Body Metric / NPT Silicone Rubber	02.01.2019

(20) Installation must be done according to the manual. Manual 10 pages, dated 12.07.2019. If the chemical property of the material changes, the certificate becomes invalid. Part list 17.07.2019 , 1 page. The clamping forces must comply with the standard and installation instructions.

Responsible Person :

NurettinTerzioglu
Head of Certification Body

Date of Issue : 19.08.2019