

Supplement No:1
EU-Type Examination Certificate

- (1) **EU-Type Examination Certificate Number: IEP 13 ATEX 0184 U**
- (2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU
- (3) **EU – Type Examination Certificate Number: IEP 13 ATEX 0184 U**
- (4) **Equipment: 701-189 Series Carbon Steel and Stainless Steel Braided and non Braided Flexible Conduits**
- (5) **Manufacturer: HACI AYVAZ Endüstriyel Mamuller Sanayi ve Ticaret A. Ş.**
- (6) **Address: Hadımköy Mahallesi Mustafa İnan Cad. No:44 Arnavutköy, İstanbul – TURKEY**
- (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. 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.10-545-1 date 04.03.2019.
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with;
EN 60079-0:2013 , EN 60079-7:2015 , EN 60079-31:2014
- (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:



I M2
II 2G Ex e IIC Gb ;
II 2D Ex tb IIC Db , IP 66/67

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 06.03.2019



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(13) Schedule

(14) Certificate Nr: IEP 13 ATEX 0184 U

(15) Description of Equipment:

The relation between end fitting size and model code of the flexible conduit is shown in the table below.

HOSE	DEFINATIONS	CONNECTION	THREAD NORM	CARBON STEEL CODE	STAINLESS STEEL CODE
DN 100	Nipple x Nipple	G 4"x G 4	G 4" EN ISO 228/1	701.189.101.119	701.189.111.119
DN 80	Nipple x Nipple	G 3"x G 3"	G 3"EN ISO 228/1	701.189.108.019	701.189.118.019
DN 65	Nipple x Nipple	G 2 1/2"x G 2 1/2"	G 2 1/2"EN ISO 228/1	701.189.105.019	701.189.115.019
DN 50	Raccord x Nipple	G 2"x G 2"	G 2 1/2"EN ISO 228/1	701.189.104.015	701.189.114.015
DN 40	Raccord x Nipple	G 1 1/2"x G 1 1/2"	G 2"EN ISO 228/1	701.189.103.215	701.189.113.215
DN 32	Raccord x Nipple	G 1 1/4"x G 1 1/4"	G 1 1/2"EN ISO 228/1	701.189.102.515	701.189.112.515
DN 25	Raccord x Nipple	G 1"x G 1"	G 1 1/4"EN ISO 228/1	701.189.102.015	701.189.112.015
DN 20	Raccord x Nipple	G 3/4"x G 3/4"	G 1"EN ISO 228/1	701.189.101.615	701.189.111.615
DN 12	Raccord x Nipple	G 1/2"x G 1/2"	G 1/2"EN ISO 228/1	701.189.101.215	711.189.011.215
DN 8	Raccord x Nipple	M15x1,5x M15x1,5	M15X1,5	701.189.200.815	701.189.210.815
DN 10	Raccord x Nipple	M20x2,5x M20x2,5	M20X2,5	701.189.201.015	701.189.211.015
DN 12	Raccord x Nipple	M25x2-M25x2	M25X2	701.189.201.215	701.189.211.215
DN 12	Raccord x Nipple	NPT 1/2"x NPT 1/2"	1/2"-14 NPT	701.189.301.215	701.189.311.215
DN 16	Raccord x Nipple	NPT 3/4"x NPT 3/4"	3/4"-14 NPT	701.189.301.615	701.189.311.615
DN 20	Raccord x Nipple	NPT 1"x NPT 1"	1"-(11 1/2") NPT	701.189.302.015	701.189.312.015
DN 25	Raccord x Nipple	NPT 1 1/4"x NPT 1 1/4"	1 1/4"-(11 1/2") NPT	701.189.302.515	701.189.312.515
DN 32	Raccord x Nipple	NPT 1 1/2"x NPT 1 1/2"	1 1/2"-(11 1/2") NPT	701.189.303.215	701.189.313.215
DN 40	Raccord x Nipple	NPT 2"x NPT 2"	2"-(11 1/2") NPT	701.189.304.015	701.189.314.015
DN 50	Nipple x Nipple	NPT 2 1/2"x NPT 2 1/2"	2 1/2"-8 NPT	701.189.305.019	701.189.315.019
DN 80	Nipple x Nipple	NPT 3"x NPT 3"	3"-8 NPT	701.189.308.019	701.189.318.019
DN 8	Raccord x Nipple	M15x1,5	M15x1,5	701.190.200.815	701.190.210.815
DN 10	Raccord x Nipple	M20x2,5	M20x2,5	701.190.201.015	701.190.211.015
DN 12	Raccord x Nipple	M25x2	M25x2	701.190.201.215	701.190.211.215
DN 12	Raccord x Nipple	G 1/2"	G 1/2"	701.190.101.215	701.190.111.215
DN 12	Raccord x Nipple	NPT 1/2"	NPT 1/2"	701.190.301.215	701.190.311.215
DN 16	Raccord x Nipple	G 3/4"	G 3/4"	701.190.101.615	701.190.111.615
DN 16	Raccord x Nipple	NPT 3/4"	NPT 3/4"	701.190.301.615	701.190.311.615
DN 20	Raccord x Nipple	G 1"	G 1"	701.190.102.015	701.190.112.015
DN 20	Raccord x Nipple	NPT 1"	NPT 1"	701.190.302.015	701.190.312.015
DN 25	Raccord x Nipple	G 1 1/4"	G 1 1/4"	701.190.102.515	701.190.112.515
DN 25	Raccord x Nipple	NPT 1 1/4"	NPT 1 1/4"	701.190.302.515	701.190.312.515
DN 32	Raccord x Nipple	G 1 1/2"	G 1 1/2"	701.190.103.215	701.190.113.215
DN 32	Raccord x Nipple	NPT 1 1/2"	NPT 1 1/2"	701.190.303.215	701.190.313.215
DN 40	Raccord x Nipple	G 2"	G 2"	701.190.104.015	701.190.114.015
DN 40	Raccord x Nipple	NPT 2"	NPT 2"	701.190.304.015	701.190.314.015
DN 50	Raccord x Nipple	G 2 1/2"	G 2 1/2"	701.190.105.019	701.190.315.019
DN 100	Nipple x Nipple	G 4"x G 4	G 4" EN ISO 228/1	701.190.101.119	701.190.111.119
DN 100	Nipple x Nipple	NPT 4" x NPT 4"		701.190.310.019	701.190.313.019
DN 80	Nipple x Nipple	G 3"x G 3"	G 3"EN ISO 228/1	701.190.108.019	701.190.118.019
DN 80	Nipple x Nipple	NPT 3"x NPT 3"	3"-8 NPT	701.190.308.019	701.190.318.019
DN 65	Nipple x Nipple	G 2 1/2"x G 2 1/2"	G 2 1/2"EN ISO 228/1	701.190.165.119	701.190.365.119
DN 50	Nipple x Nipple	NPT 2 1/2"x NPT 2 1/2"	2 1/2"-8 NPT	701.190.305.019	701.190.315.019

Ta : (-20 ; + 80) °C IP 66/67

Responsible Person:

Nurettin Terzioğlu

Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi
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(16) Certificate Nr: **IEP 13 ATEX 0184 U**

(17) Description of Equipment

701-189 Series carbon steel and stainless steel braided and non braided flexible conduits made of carbon steel or stainless steel. Flexible conduits are used for casing cable. d, and e belonging to the type of equipment is suitable for connections. d or e type of connection exproof equipments must be 2014/34/EU certified. Insulating sheath is used inside or outside. Insulating sleeve is made from pvc polymer material. MSDS-091102 (02.11.2009)

The installation instructions as provided by the manufacturer shall be followed in detail in order to assure proper and safe operation of the flexible coupling.

(18) Essential Health and Safety Requirements :

18 .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.

18 .2 At the installation manual of the 701-189 Series Carbon Steel and Stainless Steel Flexible Conduits have to be observed manufacturer's user manually dated 21.01.2019 and 1 page.

(19) List of documentation ;

Drawing Nr ;	Drawing Name ;	Date ;
701.189.101.119	G 4"x G 4	27.09.2013
701.189.108.019	G 3"x G 3"	27.09.2013
701.189.105.019	G 2 1/2"x G 2 1/2"	27.09.2013
701.189.104.015	G 2"x G 2"	27.09.2013
701.189.103.215	G 1 1/2"x G 1 1/2"	27.09.2013
701.189.102.515	G 1 1/4"x G 1 1/4"	27.09.2013
701.189.102.015	G 1"x G 1"	27.09.2013
701.189.101.615	G 3/4"x G 3/4"	27.09.2013
701.189.101.215	G 1/2"x G 1/2"	27.09.2013
701.189.200.815	M15x1,5x M15x1,5	27.09.2013
701.189.201.015	M20x2,5x M20x2,5	27.09.2013
701.189.201.215	M25x2-M25x2	27.09.2013
701.189.301.215	NPT 1/2"x NPT 1/2"	27.09.2013
701.189.301.615	NPT 3/4"x NPT 3/4"	27.09.2013
701.189.302.015	NPT 1"x NPT 1"	27.09.2013
701.189.302.515	NPT 1 1/4"x NPT 1 1/4"	27.09.2013
701.189.303.215	NPT 1 1/2"x NPT 1 1/2"	27.09.2013
701.189.304.015	NPT 2"x NPT 2"	27.09.2013
701.189.305.019	NPT 2 1/2"x NPT 2 1/2"	27.09.2013
701.189.308.019	NPT 3"x NPT 3"	27.09.2013
701.189.111.119	G 4"x G 4	27.09.2013

Responsible Person;

Nurettin Terzioglu
Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi
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(20) Certificate Nr: IEP 13 ATEX 0184 U

(21) Drawings:

Drawing Nr :	Drawing Name ;	Date ;
701.189.118.019	G 3"x G 3"	27.09.2013
701.189.115.019	G 2 1/2"x G 2 1/2"	27.09.2013
701.189.114.015	G 2"x G 2"	27.09.2013
701.189.113.215	G 1 1/2"x G 1 1/2"	27.09.2013
701.189.112.515	G 1 1/4"x G 1 1/4"	27.09.2013
701.189.112.015	G 1"x G 1"	27.09.2013
701.189.111.615	G 3/4"x G 3/4"	27.09.2013
711.891.011.215	G 1/2"x G 1/2"	27.09.2013
701.189.210.815	M15x1,5x M15x1,5	27.09.2013
701.189.211.015	M20x2,5x M20x2,5	27.09.2013
701.189.211.215	M25x2-M25x2	27.09.2013
701.189.311.215	NPT 1/2"x NPT 1/2"	27.09.2013
701.189.311.615	NPT 3/4"x NPT 3/4"	27.09.2013
701.189.312.015	NPT 1"x NPT 1"	27.09.2013
701.189.312.515	NPT 1 1/4"x NPT 1 1/4"	27.09.2013
701.189.313.215	NPT 1 1/2"x NPT 1 1/2"	27.09.2013
701.189.314.015	NPT 2"x NPT 2"	27.09.2013
701.189.315.019	NPT 2 1/2"x NPT 2 1/2"	27.09.2013
701.189.318.019	NPT 3"x NPT 3"	27.09.2013
601.NPL.303.534	Nipple	24.09.2011
601.NPL.313.534	Nipple	24.09.2011
601.NPL.323.534	Nipple	24.09.2011
601.NPL.003.534	Nipple	24.09.2011
601.NPL.203.534	Nipple	24.09.2011
601.NPL.301.812	Nipple-1/2"	25.09.2013
601.NPL.001.812	Nipple-1/2"	25.09.2013
601.NPL.301.818	Nipple-3/4"	25.09.2013
601.NPL.001.818	Nipple-3/4"	25.09.2013
601.NPL.301.822	Nipple-1"	18.09.2013
601.NPL.001.822	Nipple-1"	18.09.2013
601.NPL.301.826	Nipple-1 1/4"	25.09.2013
601.NPL.001.826	Nipple-1 1/4"	25.09.2013
601.NPL.301.830	Nipple-1 1/2"	25.09.2013
601.NPL.001.830	Nipple-1 1/2"	25.09.2013
601.NPL.301.838	Nipple-2 1/2"	18.09.2013
601.NPL.001.838	Nipple-2 1/2"	18.09.2013

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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(22) Certificate Nr: IEP 13 ATEX 0184 U

(23) Drawings:

Drawing Nr ;	Drawing Name ;	Date ;
601.NPL.301.843	Nipple-3"	18.09.2013
601.NPL.001.843	Nipple-3"	18.09.2013
601.NPL.301.847	Nipple-4"	18.09.2013
601.NPL.001.847	Nipple-4"	18.09.2013
601.NPL.307.901	Nipple-M15xDN8	19.09.2013
601.NPL.007.901	Nipple-M15xDN8	19.09.2013
601.NPL.308.902	Nipple-M20xDN10	19.09.2013
601.NPL.008.902	Nipple-M20xDN10	19.09.2013
601.NPL.309.903	Nipple-M25xDN12	19.09.2013
601.NPL.009.903	Nipple-M25xDN12	19.09.2013
601.NPL.305.834	Nipple-2"-NPT	24.09.2013
601.NPL.005.834	Nipple-2"-NPT	24.09.2013
601.NPL.305.838	Nipple-2 1/2"-8 NPT	24.09.2013
601.NPL.005.838	Nipple-2 1/2"-8 NPT	24.09.2013
601.NPL.305.812	Nipple-1/2"-NPT	19.09.2013
601.NPL.005.812	Nipple-1/2"-NPT	19.09.2013
601.NPL.305.818	Nipple-3/4"-14 NPT	19.09.2013
601.NPL.005.818	Nipple-3/4"-14 NPT	19.09.2013
601.NPL.305.822	Nipple-1"-(11 1/2") NPT	19.09.2013
601.NPL.005.822	Nipple-1"-(11 1/2") NPT	19.09.2013
601.NPL.305.830	Nipple-1 1/2"-(11 1/2") NPT	19.09.2013
601.NPL.001.830	Nipple-1 1/2"-(11 1/2") NPT	19.09.2013
601.NPL.305.826	Nipple-1 1/4"-(11 1/2") NPT	19.09.2013
601.NPL.005.826	Nipple-1 1/4"-(11 1/2") NPT	19.09.2013
601.NPL.305.843	Nipple-3"-NPT	19.09.2013
601.NPL.005.843	Nipple-3"-NPT	19.09.2013
601.NPL.305.847	Nipple-4"-NPT	19.09.2013
601.NPL.005.847	4"-NPT Nipple	19.09.2013
601.SMN.302.104	1" Nut Non-coated	28.08.2010
601.SMN.312.104	1" Nut Ni coated	28.08.2010
601.SMN.322.104	1" Nut Cr-Ni coated	28.08.2010
601.SMN.002.104	1" Nut AISI 303/304	28.08.2010
601.SMN.612.104	1" Nut Ni coated	28.08.2010
601.SMN.622.104	1" Nut Cr-Ni coated	28.08.2010
601.SMN.305.804	1"-(11 1/2") NPT	24.09.2013

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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(24) Certificate Nr: **IEP 13 ATEX 0184 U**

(25) Drawings:

Drawing Nr ;	Drawing Name ;	Date ;
601.SMN.005.804	1"-(11 1/2") NPT	24.09.2013
601.SMN.002.107	2" Nut Non-coated	28.08.2010
601.SMN.302.107	2" Nut Ni coated	28.08.2010
601.SMN.312.107	2" Nut Cr-Ni coated	28.08.2010
601.SMN.322.107	2" Nut AISI 303/304	28.08.2010
601.SMN.602.107	2" Nut Non-coated	28.08.2010
601.SMN.612.107	2" Nut Ni coated	28.08.2010
601.SMN.622.107	2" Nut Cr-Ni coated	28.08.2010
601.SMN.305.807	2"-(11 1/2") NPT Nut	24.09.2013
601.SMN.005.807	2"-(11 1/2") NPT Nut	24.09.2013
601.SMN.002.102	1/2" Nut Non-coated	28.08.2010
601.SMN.302.102	1/2" Nut Ni coated	28.08.2010
601.SMN.312.102	1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.322.102	1/2" Nut AISI 303/304	28.08.2010
601.SMN.602.102	1/2" Nut Non-coated	28.08.2010
601.SMN.612.102	1/2" Nut Ni coated	28.08.2010
601.SMN.622.102	1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.305.802	1/2"-14 NPT Nut	24.09.2013
601.SMN.005.802	1/2"-14 NPT Nut	24.09.2013
601.SMN.302.103	1/2" Nut Non-coated	28.08.2010
601.SMN.312.103	1/2" Nut Ni coated	28.08.2010
601.SMN.322.103	1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.002.103	1/2" Nut AISI 303/304	28.08.2010
601.SMN.602.103	1/2" Nut Non-coated	28.08.2010
601.SMN.612.103	1/2" Nut Ni coated	28.08.2010
601.SMN.622.103	1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.305.803	3/4"-14 NPT Nut	25.09.2013
601.SMN.005.803	3/4"-14 NPT Nut	25.09.2013
601.SMN.302.106	1 1/2" Nut Non-coated	28.08.2010
601.SMN.312.106	1 1/2" Nut Ni coated	28.08.2010
601.SMN.322.106	1 1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.002.106	1 1/2" Nut AISI 303/304	28.08.2010
601.SMN.602.106	1 1/2" Nut Non-coated	28.08.2010
601.SMN.612.106	1 1/2" Nut Ni coated	28.08.2010
601.SMN.622.106	1 1/2" Nut Cr-Ni coated	28.08.2010
601.SMN.305.806	1 1/2"-(11 1/2") NPT Nut	01.10.2013

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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(26) Certificate Nr: **IEP 13 ATEX 0184 U**

(27) Drawings:

Drawing Nr ;	Drawing Name ;	Date ;
601.SMN.005.806	1 1/2"-(11 1/2") NPT Nut	01.10.2013
601.SMN.302.105	11/4" Nut Non-coated	28.08.2010
601.SMN.302.105	11/4" Nut Non-coated	28.08.2010
601.SMN.312.105	11/4" Nut Ni coated	28.08.2010
601.SMN.322.105	11/4" Nut Cr-Ni coated	28.08.2010
601.SMN.002.105	11/4" Nut AISI 303/304	28.08.2010
601.SMN.602.105	11/4" Nut Non-coated	28.08.2010
601.SMN.612.105	11/4" Nut Ni coated	28.08.2010
601.SMN.622.105	11/4" Nut Cr-Ni coated	28.08.2010
601.SMN.305.805	1 1/4"-(11 1/2") NPT Nut	26.09.2013
601.SMN.005.805	1 1/4"-(11 1/2") NPT Nut	26.09.2013
601.SMN.302.108	21/2" Nut Non-coated	28.08.2010
601.SMN.312.108	21/2" Nut Ni coated	28.08.2010
601.SMN.322.108	21/2" Nut Cr-Ni coated	28.08.2010
601.SMN.002.108	21/2" Nut AISI 303/304	28.08.2010
601.SMN.602.108	21/2" Nut Non-coated	28.08.2010
601.SMN.612.108	21/2" Nut Ni coated	28.08.2010
601.SMN.622.108	21/2" Nut Cr-Ni coated	28.08.2010
601.SMN.305.808	2 1/2"-8 NPT Nut	24.09.2013
601.SMN.005.808	2 1/2"-8 NPT Nut	24.09.2013
601.SMN.307.801	M15x1,5 Nut	20.09.2013
601.SMN.007.801	M15x1,5 Nut	20.09.2013
601.SMN.308.802	M20 Nut	20.09.2013
601.SMN.008.802	M20 Nut	20.09.2013
601.SMN.309.803	M25 Nut	20.09.2013
601.SMN.009.803	M25 Nut	20.09.2013
601.002.215.032	DN8 Hose	27.09.2013
601.002.215.042	DN10 Hose	19.09.2013
601.002.215.047	DN12 Hose	19.09.2013
601.002.220.060	DN16 Hose	27.09.2013
601.002.220.072	DN20 Hose	27.09.2013
601.002.220.092	DN25 Hose	27.09.2013
601.002.222.123	DN32 Hose	27.09.2013
601.002.225.150	DN40 Hose	27.09.2013
601.002.225.183	DN50 Hose	27.09.2013
708.010.301.065	DN65 Hose	27.09.2013

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi
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(28) Certificate Nr: IEP 13 ATEX 0184 U

(29) Drawings

Drawing Nr ;	Drawing Name ;	Date ;
708.010.301.080	DN80 Hose	27.09.2013
708.010.301.100	DN100 Hose	27.09.2013
601.270.100.008	DN8 Ring	27.09.2013
601.270.100.010	DN10 Ring	19.09.2013
601.270.100.012	DN12 Ring	19.09.2013
601.270.100.016	DN16 Ring	27.09.2013
601.270.100.021	DN20 Ring	27.09.2013
601.270.100.025	DN25 Ring	27.09.2013
601.270.100.032	DN32 Ring	27.09.2013
601.270.100.040	DN40 Ring	27.09.2013
601.270.100.050	DN50 Ring	27.09.2013
601.270.100.065	DN65 Ring	27.09.2013
601.270.100.080	DN80 Ring	27.09.2013
601.270.100.100	DN100 Ring	27.09.2013
601.310.101.008	DN8 Braid	27.09.2013
601.310.101.010	DN10 Braid	19.09.2013
601.310.101.012	DN12 Braid	19.09.2013
601.310.101.016	DN16 Braid	27.09.2013
601.310.101.020	DN20 Braid	27.09.2013
601.310.101.025	DN25 Braid	27.09.2013
601.310.101.032	DN32 Braid	27.09.2013
601.310.101.040	DN40 Braid	27.09.2013
601.310.101.050	DN50 Braid	27.09.2013
601.310.101.065	DN65 Braid	27.09.2013
601.310.101.080	DN80 Braid	27.09.2013
601.310.101.100	DN100 Braid	27.09.2013
H10EXP015	nonbraid dimensions	11.01.2019
H10EXP016	nonbraid dimensions	11.01.2019

(30) For the validity of analysis type certificate, the parts that are used in carbon steel and stainless steel flexible conduits are determined in confirmed the list of equipment's part 2.3 and date 25.09.2013.

Certificate History:

Supplement N°	Supplement Date	Summary Description of Variation
01	06.03.2019	nonbraid model addition
00	25.12.2013	First issue of certificate

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 06.03.2019

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