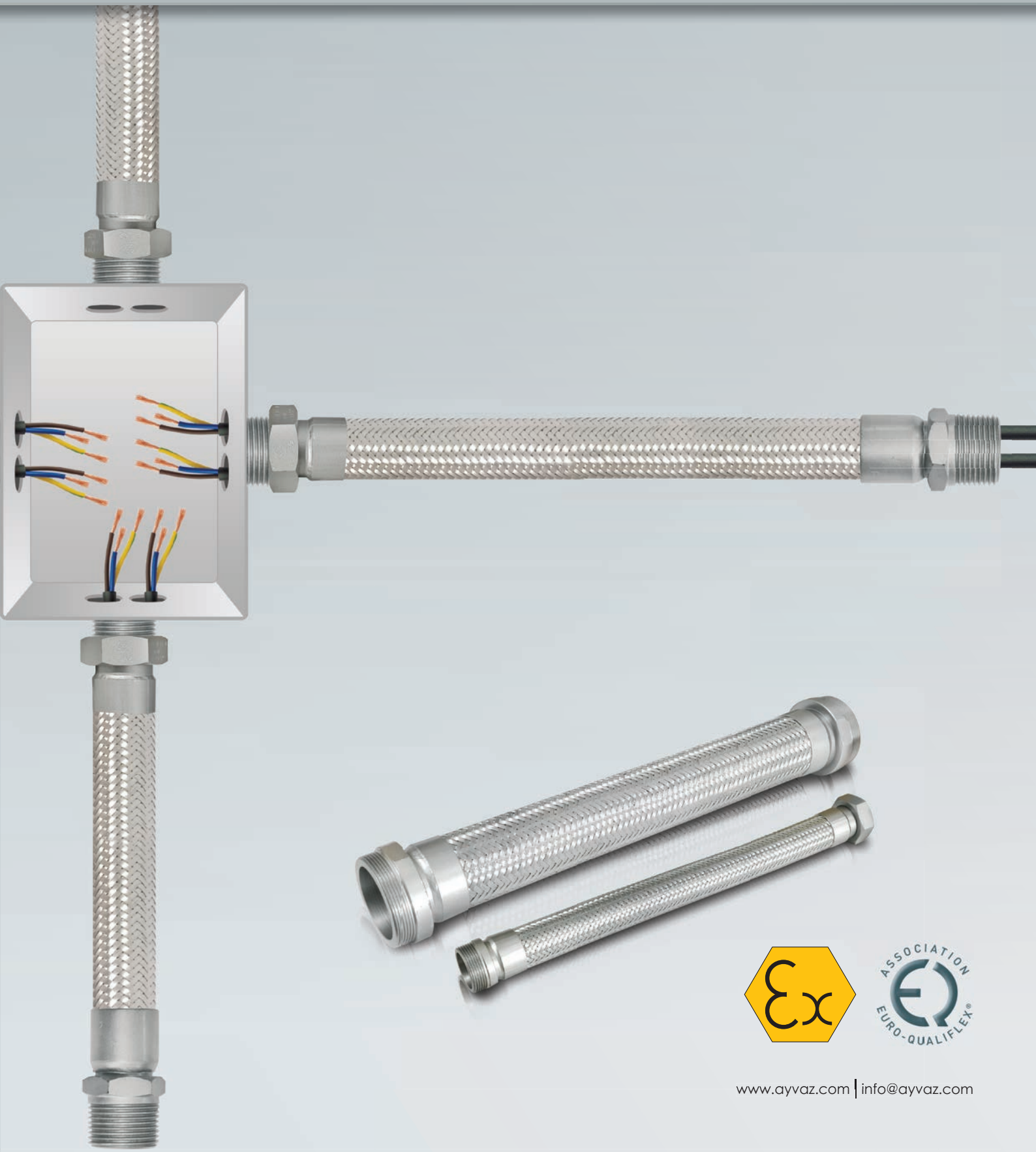
AYVAZ®

EX-PROOF KABLO KORUMA KILIFI (ESNEK METAL HORTUM)

EX-PROOF CABLE PROTECTION SLEEVE



ASSOCIATION EURO-QUALIFLEX®

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AYVAZ®

Ex-proof Kablo Koruma Kılıfı (Esnek Metal Hortum)
Ex-proof Cable Protection Sleeve

Kullanım Alanı - *Application Areas*

Petrol, petrol ürünleri, kimya, LPG, doğal gaz, kömür madenleri, şeker fabrikaları, kereste ve mobilya fabrikaları, ekmek fırını ve fabrikaları gibi yanıcı, parlayıcı ve patlayıcı maddelerle uğraşan birçok sanayi kollarında normal çalışma şartlarında, arıza ve bakım gibi hallerde (Gaz, toz veya yanıcı madde buharı gibi nedenlerle) patlayıcı ortam oluşabilmektedir.

Elektrik aletlerinin çıkardığı kıvılcım ve ark bu ortamları tehlikeye düşürmekte ve patlamalara neden olmaktadırlar. Bu nedenlerle bu gibi iş yerlerinin patlayıcı ortamlarında kullanılan elektrik aletleri farklı olmak zorundadır. İşte bu olaya **Ex-proof** ve kullanılan elektrikli aletlere de exproof elektrikli aletler adı verilmektedir.

Elektrik kıvılcım ve ark gibi olayların oluşma riski olan elektrik kablolarının geçtiği yerlerde, **elektrik kabloları exproof özelliği olan flexible hortumlarla korunmaktadır.**

Oil, oil products, chemical industries, LPG, natural gas, coal mines, sugar factories, wood and furniture factories, bakery and bread factories and other industries that produce inflammable & explosive materials.

*Remove the spark and arc of electrical appliances may cause sparks and blasts. For this reason, these kind of work place such electrical appliances that used in explosive atmospheres must be different. In such cases are called **Ex-proof** and the materials that used in electrical appliances are called **Ex-proof Electrical Materials.***

Kullanım Amacı - *Application Purpose*

Elektrik kablolarının sebep olabileceği ark ve kıvılcıma karşı kablo koruma kılıfı olarak kullanılmaktadır.

The risk of electrical spark or arc that may occured the electric cables characterized in that flexible hoses are protected by exproof.

Servis Ömrü - *Service Life*

Değişebilir ortam koşulları söz konusu ise; sızma başlayana kadar geçen zaman içindeki toplam yükleme devir sayısına eşittir. Yükleme devir sayısı hortumun tek yönlü hareketinde yer değişimi sonunda, ilk harekete başladığı noktaya dönme sayısıdır. Servis ömrü birçok noktaya bağlıdır.

Bunlardan en önemlileri;

- **Sıcaklık**
- **Montaj şartları**
- **Hareket açısı**

If the working conditions are not staible, the service life of hose is equal to total number of loading cycles until the leakage occurs.Service life depends on many points. The most important of these;

- ***Temperature***
- ***Assembly conditions***
- ***Angle of movement***

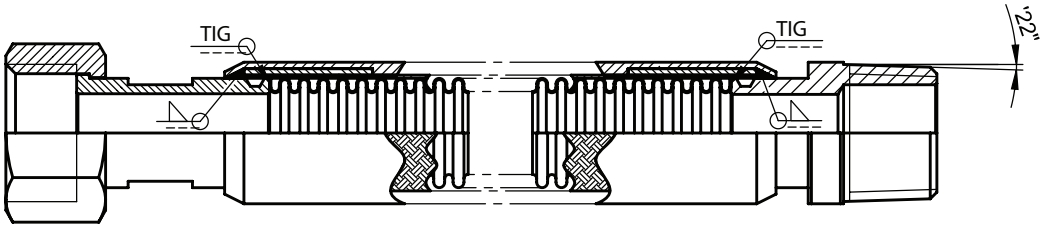
Bağlantı - *Connection*

R/R (Rakor+Rakor), N/R (Nipel+Rakor) veya N/N (Nipel+Nipel)

BSP veya NPT dişli bağlantı makoronlu veya makoronsuz

F/F (Female+Female), M/F (Male+Female) or M/M (Male+-Male)

BSP or NPT threaded connection with or without macaron



Nominal Çap	DN 8 (1/4")	DN 32 (11/4")
	DN 10 (3/8")	DN 40 (11/2")
	DN12 (1/2")	DN 50 (2")
Nominal Diameter	DN 16 (3/4")	DN 65(21/2")
	DN 20 (5/8")	DN 80 (3")
	DN25 (1")	DN 100(4")

Malzeme Özellikleri
Material Features

Malzeme: ***Material***	AISI 316L Paslanmaz Çelik *Stainless Steel AISI 316L*
Örgü: ***Braiding Material***	AISI 304 Paslanmaz Çelik *Stainless Steel AISI 304*
Fitings: ***Fitings***	Karbon Çelik-Paslanmaz Çelik *Carbon Steel – Stainless Steel*
Sertifika: ***Certificate***	IEP 13 ATEX 0184U
Uygulama: ***Application***	II 2 G Ex-e II C/Gb;I M2 II 2 G Ex-tb II C/Db;
Bölge: ***Area***	Zone 1 &2; 21 & 22
Koruma Sınıfı: ***Protection Class***	IP66/67
Sıcaklık: ***Temperature***	Ta (-20;+80) C

IEP ENERGY PETROLEUM INSTITUTE

EC-Type Examination Certificate

[1]

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3] EC – Type Examination Certificate Number : IEP 13 ATEX 0184 U

[4] Equipment : 701-189 Series Carbon Steel and Stainless Steel Flexible Conduits

[5] Manufacturer : HACI AYVAZ Endüstriyel Mamuller Sanayi Ticaret A. S.

[6] Address : Atatürk Sanayi Bölgesi Mustafa İnan Cad. No:44 Hadımköy İstanbul – TURKEY

[7] This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] The IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with of the Council Directive 94/9/EC of 23 March 1994 certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential Report N - IEP - RP.Ex - 10.545 date 19.12.2013

[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 60079-0/2009 ; EN 60079-7 / 2007 ; EN 60079-31 / 2009

[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 EC-Type Examination Certificate relates only to the design examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following :

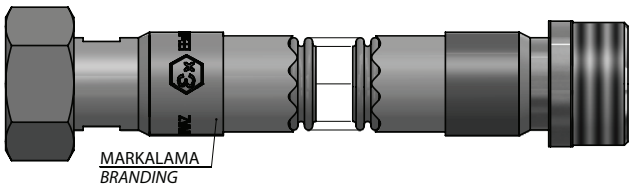
II 2G Ex e IIC Gb ; I M2
II 2D Ex tb IIIC Db , IP 66/67

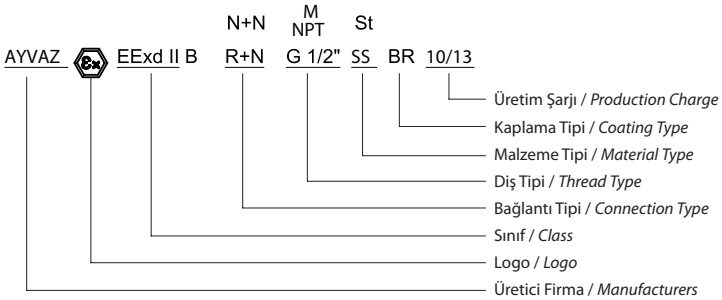
Responsible person :
Nurettin Terzioglu
Head of certification body

Date of issue : 25.12.2013

IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic.Ltd. Sti.
MTK Sitesi 57/61 Sok. No:9 K:2 Çamdibi - İZMİR / TURKEY Tel : +90 232 431 17 45 46 & Fax : +90 232 431 17 30
Nasıflar ai Pugas : 1 / 8

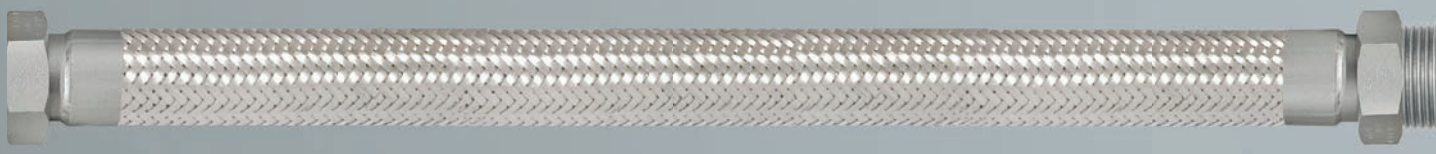
This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute.
This certificate may only be reproduced in its entirety and without any change , schedule included.





AYVAZ EX-PROOF KABLO KORUMA KILIFI TABLOSU
AYVAZ EX-PROOF CABLE PROTECTION SLEEVE TABLE

L Boyu *Length*			İç Çap *Internal Dia.*	Dış Çap *External Dia.*	Diş Ölçüsü *Thread Size*	Bağlantı Tip *Connection Type*
500 MM KODU	700 MM KODU	1000 MM KODU				Bağlantı Fitingsleri *Connection Fittings*
AFH1-50	AFH1-70	AFH1-100	16	24	1/2"	N+N/N+R/R+R *M+M/M+F/F+F*
AFH2-50	AFH2-70	AFH2-100	20	29	3/4"	
AFH3-50	AFH3-70	AFH3-100	25	35	1"	
AFH4-50	AFH4-70	AFH4-100	32	44	11/4"	
AFH5-50	AFH5-70	AFH5-100	40	54	11/2"	
AFH6-50	AFH6-70	AFH6-100	50	66	2"	
AFH7-50	AFH7-70	AFH7-100	65	82	21/2"	
AFH8-50	AFH8-70	AFH8-100	80	100	3"	
AFH9-50	AFH9-70	AFH9-100	100	122	4"	



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