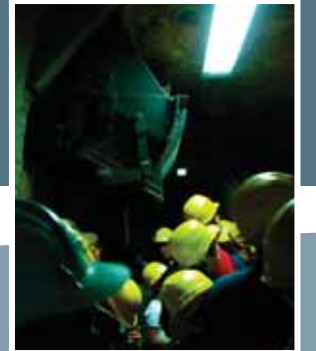


ALEVSIZDIRMAZ ELEKTRİK MALZEMELERİ

EX-PROOF ELECTRICAL MATERIALS

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



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PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

ALEVSIZDIRMAZ ELEKTRİK MALZEMELERİ

EX-PROOF ELECTRICAL MATERIALS

GRUP I
GRUP II

İçindekiler

Contents

BÖLÜM / SECTION

Sayfa No
Page No.

Hakkımızda / About Us

i

Teknik Bilgiler / Technical Information

ii

Ürünler / Products

Grup II Alevsizdirmaz Elektrik Malzemeleri / Group II Ex-proof Electrical Materials

Bağlantı Kutuları / Junction Boxes	GU/GUB /EJB /MU	2-7
Kumanda Kutuları /Control Stations	MUM /EFDC.1E	8-12
Limit Şalterler /Limit Switches	FL/FC	13
Elektrik anahtarları / Electric Switches	EFSC	15-16
Fiş-Prizler /Plug and Socket Units	FSQC	17
Floresan Armatürler /Fluorescent Lighting Fixtures	EVFR	18-21
LED / Floresan Aydınlatma Armatürleri / LED Fluorescent Lighting Fixtures	EVFR	22-23
Acil Kitli LED/Floresan Armatürler / LED/Fluorescent Lighting Fixtures With Kit	EVFR-A1, -S1	24-25
Akkor Telli Armatürler / Incandescent Lighting Fixtures	EV	26-32
İkaz Armatürleri / Warning Beacons	EV-LF, -CR /EVOLE	33-35
Alarm Seti / Warning Set Unit	EVS.R.1-220	36
Korna ve Siren / Siren and Horn	ESR / MKR	37
Balastlı Armatürler / Ballasted Lighting Fixtures	EVAT	38-40
Projektörler/ Floodlights	PRJE	41
Diğer Aydınlatmalar / Other Lighting Products	EVO /EXIT / EVT	42-43
Tuşlu Telefon / Telephone Set	TT.02	44
Topraklama Cihazı ve Pensesi / Grounding Device and Clamp	PTC.1000	45
Kablo Rakorları / Cable Glands...	E1WAS / PCNN	46-47
Kör Tapalar / Plugs	PLG/KS	48-49
Redüksiyonlar / Reductions	RE / REB / REM /REN	50-51
Nipel ve Manşonlar / Nippel and Muff	NP / EM	52
Boru Rakorları ve Durdurucular / Conduit Unions and Seals UNY / UNF / EYZ,EZS / UNYS, UNYZ / BUSH/ NEPC		53-57
Paslanmaz Çelik Örgülü Hortum / Stainless Steel Flexible Conduit	EI	58
Dirsekler ve Kablo Çekme Kutuları / Elbows and Cable Pull Boxes	EL / LB /EK	59-62
Boru Kelepçeleri /Pipe Clips	UB /GF	63
Dondurucu Karışımlar / Sealing Compound	PRO 2002 /PRO 2002-C	64-65

G I Antigrizu Elektirik Malzemeleri / Group I Firedamp Electrical Materials

Antigrizu Bağlantı Kutuları / Firedamp Junction Boxes	AGUFX /AGJB	68-71
Antigrizu Diyafon & Telli Buton / Firedamp Intercom & Wired Switch	AGJB-TS, -TSA, -DT1, DT2	70
Antigrizu Bağlantı Kutuları / Firedamp Junction Boxes	AGJB-BK, - KTS, MA-C, M-C0	71-72
Antigrizu Elektrik Anahtarları / Firedamp Electric Switches	AGA	74
Antigrizu Kumanda Kutuları / Firedamp Control Boxes	AGBK	75
Antigrizu Aydınlatma Armatürleri / Firedamp Lighting Fixtures	AGFA/AGEV	77-78
Antigrizu İkaz Armatürleri / Firedamp Warning Beacons	AGEV-LF, -CR	79
Antigrizu Telefon / Firedamp Telephone Set	AGTT.01	80
Antigrizu Korna ve Siren / Firedamp Siren and Horn	AGSR/AGKR	81
Antigrizu Kablo Rakorları / Firedamp Cable Glands	E1WAS/ PCNN	82-83
Antigrizu Kör Tapa / Firedamp Plug	PLG	84
Antigrizu Redüksiyonlar / Firedamp Reductions	RE / REB / REM /REN	85-86

PROTAŞ, 25. yılını doldururken ülkemizde ve yurt dışında önde gelen endüstrilerin tehlikeli sahalarında tercih edilen elektrik malzemesi markası olmaktan ve yurt çapında halen başarıyla işletmede olan 50.000'i aşkın asansör motoru ile müşterilerine hizmet vermekten gurur duymaktadır.

PROTAŞ, tamamı yerli sermayeli, 1989 yılından bu yana faaliyet göstermekte, halen **Alevsizedirmaz (Ex-Proof) Elektrik Malzemeleri ile Asansör Motorları ve Asansör Makine-Motor Grupları** tasarım, üretim, satış ve satış sonrası destek alanlarında hizmet vermektedir.

Üretimimiz 2006 yılından bu yana **Balıkesir Organize Sanayi Bölgesi**'nde 2.500m²'si kapalı, 5.000m² üzerine kurulu fabrikamızda yapılmakta, **İstanbul** merkez büromuzdan da müşterilerimize hizmet verilmektedir.

Kalite ve müşteri memnuniyeti ilkelerinden ödün vermeksizin, konusunda uzman mühendislerimiz ve işçilerimiz tarafından sürekli geliştirilen ürünlerimiz, üstün elektrik ve mekanik performanslarını koruyarak piyasadaki lider konumlarını sürdürmektedir.

Firmamızın Kalite Yönetim Sistemi **ISO 9001:2008** ile belgelenmiş, Alevsizedirmaz (Ex-proof) üretimimiz **EN ISO/IEC 80079-34: 2011 Üretim Kalite Belgesi** ile tescil edilmiş, ürün gruplarının **ATEX** onayları alınmaya başlanmış ve devam etmektedir. Asansör Motoru ve Asansör Makine-Motor Grubu ürünlerimizin tümü **TSEK** ve **CE** sertifikalıdır.

PROTAŞ, ülkemizin önde gelen endüstrilerinin tehlikeli sahalarında tercih edilen elektrik malzemesi markası olmaktan ve yurt çapında halen başarıyla işletmede olan 50.000'i aşkın asansör motoru ile müşterilerine hizmet vermekten gurur ve mutluluk duymaktadır.

PROTAŞ, established in 1989, is active in the design, manufacturing, sales, and after sales support of **Ex-proof Electrical Materials, Elevator Motors, and Elevator Machine-Motor Groups**.

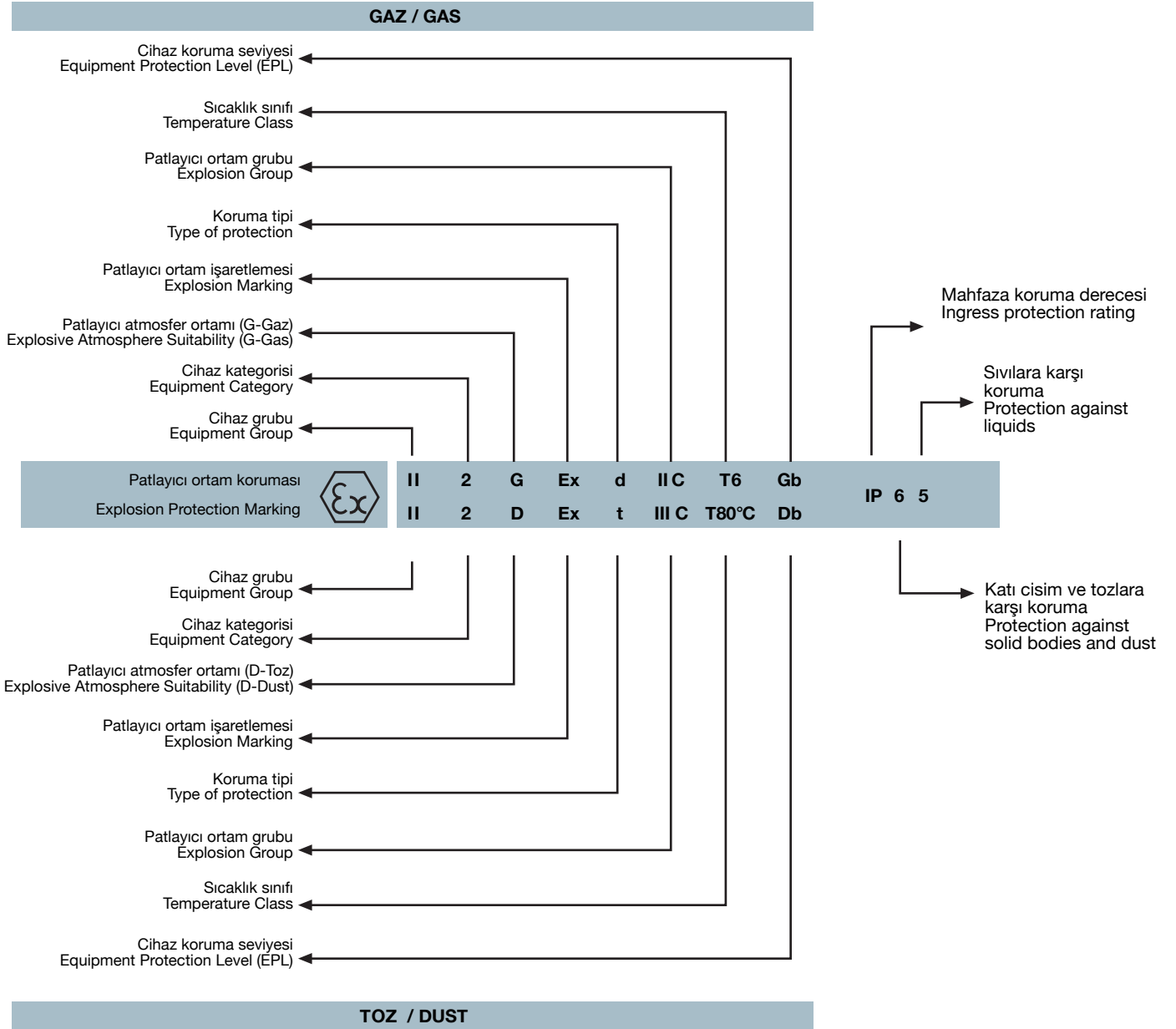
Manufacturing is carried out at our factory in the **Balıkesir Industrial Zone** since 2006, and our main office continues to serve our customers in **Istanbul**.

Based on our zero compromise philosophy in quality and customer satisfaction, our processes and products are continuously improved by our expert engineering and manufacturing team, resulting in **PROTAŞ** products to sustain their leading position in the industry with superior electrical and mechanical properties and performance.

Our Quality Management System is certified with **ISO 9001:2008**, and our Ex-proof manufacturing process is certified with **EN ISO/IEC 80079-34: 2011**. Product specific **ATEX** approval is continuing to be completed for all product groups soon. All our Elevator Motors and Machine-Motor Groups are certified by the **Turkish Standards Institute** and **CE** label.

PROTAŞ is proud celebrating 25 years in leading industries by providing electrical materials suitable for their hazardous areas; and serving people every day with over 50,000 elevator motors currently operating in buildings today.

ALEVSIZDIRMAZ CİHAZ İŞARETLEMESİ EXPLOSION PROOF EQUIPMENT MARKING



Patlayıcı ortam, havanın patlayıcı, parlayıcı veya yanıcı özellikteki gaz, buhar, toz veya lif halindeki maddelerle karışımının patlama kıvamında bulunduğu ortamlardır.

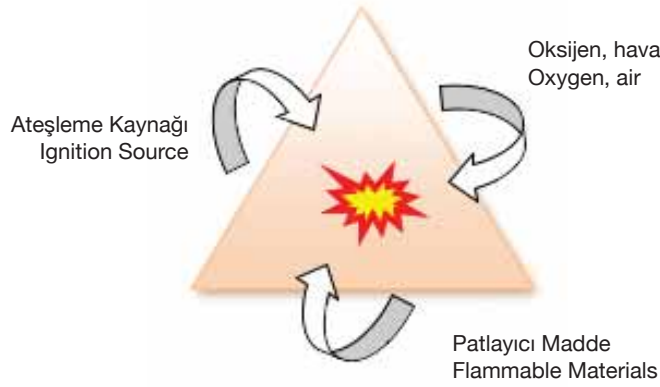
Patlamanın oluşması için üç unsurun birarada olması gerekmektedir:

- Yanıcı/Parlayıcı/Patlayıcı madde (gaz, buhar, toz, lif)
- Oksijen (varolan atmosferik ortamdaki hava)
- Ateşleme Kaynağı (elektrik arkı, ısı, kıvılcım, alev)

An explosive atmosphere is defined as a mixture of dangerous substances with air, under atmospheric conditions, in the form of gases, vapours, mist or dust in which, after ignition has occurred, combustion spreads to the entire unburned mixture.

The three requirements for an explosion is represented in terms of the "Fire Triangle":

- Flammable gas, vapor or dust within certain limits of concentration*
- Air containing a minimum concentration of oxygen*
- An ignition source of minimum temperature and energy*



Patlama Üçgeni / Fire Triangle

Patlayıcı gazlar, havadaki oksijen ile karışımlarında kıvılcım gibi bir ateşleme kaynağı ile patlayabildikleri gibi ortamdaki aletlerin yüzey sıcaklıklarından da alev alabilirler, buna statik patlama adı verilir. Bu nedenle kullanılan elektrik ve mekanik teçhizatın yüzey sıcaklıklarına da dikkat edilmelidir.

Yanıcı sıvılar, sıvı halleri ile patlayıcı ortam oluşturmazlar. İçinde bulundukları ortamın sıcaklığına bağlı olarak buharlaşarak havadaki oksijen ile karışımlarında tehlike oluştururlar. Sıvıların patlayabilecek kıvamda sıvı buharı oluşturabilecekleri en düşük sıcaklık olan parlama noktası ve kaynama noktaları sıvıların tehlike derecelerini belirler.

Flammable gasses require only small amounts of energy to react with atmospheric oxygen such as a spark or hot surface. Therefore, the surface temperature of the mechanical and electrical equipment used is also of importance.

Flammable liquids change into vapour phase that forms a potentially explosive atmosphere near their surface. Depending on the properties of each liquid, the proportion of the liquid that has evaporated into the surrounding air is determined by the temperature of the liquid.

Yanıcı Tozlar havadaki oksijen ile karışarak toz bulutu veya cihaz yüzeyinde ince tabaka halinde olabilir. Tozlar herhangi bir yüzeyde yerleşik iken dışarıdan ateşleme olmaksızın yüzey ısı ile korlanarak yanabilir veya patlayabilir. İnce tabaka halindeki tozların patlama sıcaklığı tozların havada bulut halinde iken alevlenme sıcaklığından düşüktür.

Endüstriyel ortamlarda can ve mal güvenliğini korumak için patlamalara karşı alınması gereken koruyucu önlemler dünyada çeşitli standartlar ve yönetmeliklerle belirlenmiştir.

Ülkemizde “Muhtemel Patlayıcı Ortamda Kullanılan Teçhizat ve Koruyucu Sistemler Yönetmeliği (94/4/AT)” 30.12.2006 tarih ve 26392 (4.Mük.) sayılı Resmi Gazetede yayınlanarak alınması gereken önlemler belirlenmiş ve uyulması zorunlu hale getirilmiştir.

Buna göre, havalandırma ve benzeri birincil önlemlerle patlayıcı ortamın oluşması önlenemiyorsa, oluşan Tehlikeli Bölgelerde tehlikesiz çalışabilecek Alevsizdirmaz (ex-proof) ekipman kullanılarak patlayıcı ortamın tutuşması önlenmelidir.

Tehlikeli (Patlayıcı) Ortamlar, normal koşullarda oluşma ihtimali, oluşma sıklığı ve bu ortamın devam etme süresi esas alınarak, yukarıda Tablo.1’de görüldüğü gibi sınıflandırılmıştır.

Flammable solids in the form of dust, fibre or flyings can react with atmospheric oxygen and produce significant explosions. Dust behaves differently depending on whether it is deposited as a layer or in a suspended as a dust cloud. Dust layers begin smouldering on hot surfaces, while a dust cloud can explode immediately through contact with a hot surface or by an ignition source.

In order to prevent the loss of life, serious injuries and significant damage explosions can cause, protective methods have been developed and defined in standards and regulations around the World.

In Turkey, “The Regulation on Equipment and Protective Systems to be Used in Potentially Explosive Environments (94/4/AT)” issued on 30.12.2006 via no. 26392 (4.rev) is in effect. This regulation is in parallel to the European Union Directive 94/9/EC (also known as 'ATEX 95' or 'the ATEX Equipment Directive') on the approximation of the laws of Members States concerning equipment and protective systems intended for use in potentially explosive atmospheres.

The two widely used ways of reducing the risk of explosion is preventing release of dangerous substances to avoid creation of explosive atmospheres, and in potentially explosive atmospheres, preventing sources of ignition by using Ex-Proof Equipment.

Tablo.1 - Kuşak Sınıflandırması / Table.1 - Zone Classification

ZONE (KUŞAK)		Normal çalışma koşullarında patlayıcı ortam bulunma ihtimali Probability of a potential explosive atmosphere occurring
Gaz Gas	Toz Dust	
0	20	Sürekli veya uzun süreli bulunduğu yerler Always, temporarily or often present.
1	21	Bazen, düzensiz ve kısa süreli olduğu yerler Occasionally present.
2	22	Normalde ihtimali olmayan, patlayıcı ortamın kazara, kısa süreler için oluşabileceği yerler. Very seldom or only for a short period.

Cihaz Grubu Equipment Group	Cihaz Kategorisi Equipment Category	Patlayıcı ortam grubu Explosion Group	Cihaz koruma seviyesi EPL	Kuşaklar Zones
I	M1	I	Ma	YOK / NA
	M2		Mb	
II	1G	II A	Ga	0
	2G		Gb	1
	3G		Gc	2
	1D	III C	Da	20
	2D		Db	21
	3D		Dc	22

Dünyada veya ülkemizde tehlikeli alanlarda Ortam Sınıflandırması belirleyen bir otorite yoktur, tesisin işletmecisi konusunda uzman mühendisler ile tehlikeli bölgeleri tanımlamalıdır.

Patlayıcı ortamlar, bulunan yanıcı maddelerin özellikleri göz önüne alınarak aşağıdaki Tablo.2'de görüldüğü gibi gruplanmıştır.

Hazardous explosive atmospheres are classified into zones as seen in Table.1 based on its size and location, the likelihood of an explosive atmosphere occurring, and its persistence if it does. The classification of potentially explosive hazardous areas must be determined by the employers, working together with experts on this subject.

Explosive atmospheres are classified as seen in Table.2, based on the characteristics of flammables present.

Tablo.2 - Patlayıcı Ortam Grupları / Table.2 - Explosive Atmosphere Groups

Patlayıcı Ortam Explosive Atmospheres	Patlayıcı Ortam Grubu Explosion Group	Örnek Tehlikeli Ortam Typical Hazardous Material
Tüm Yeraltı kömür madenleri Underground Coal Mines	I	Doğal Metan (Grizu) Natural Methane (Grizu)
Kömür Madeni Dışındaki Ortamlar Hazardous Areas Other than Underground Coal Mines		
Gazlar ve buharlar Gases and Vapors	IIA	Propan/ Propane
	IIB	Etilen/ Ethylene
	IIC	Asetilen, Hidrojen/ Acetylene, Hydrogen
Lifler Fibres & Flyings	IIIA	Ağaç, kağıt veya pamuk işleme Wood, paper or cotton processing
Tozlar Dusts	IIIB	Tahıl tozu/ Grain dust
	IIIC	Metal tozu, kömür tozu/ Metal dust, coal dust

Teknik Bilgiler

Technical Information

Patlayıcı ortamlarda çalışacak cihazlar, ateşleme kaynağı olma tehlikesini ortadan kaldırmak için değişik yöntemlerle koruma altına alınarak güvenli hale getirilirler. Koruma tipleri cihazların mahfazaları, tüm giriş ve çıkışları, kumanda tertipleri ile eleman ve bağlantılarını kapsar. Standartlarca belirlenmiş koruma tipleri Tablo.3'te gösterilmiştir.

Only explosion protected equipment may be used in areas that are potentially explosive. Different types of protection methods are used in electrical explosion protected equipment according to standards and regulations, as outlined in Table-3.

Tablo.3 - Cihaz Koruma Tipleri / Table.3 - Equipment Protection Types

İletkenlik Rating	Açıklama	Cihaz koruma sınıfı	Description	EPL Equipment protection level
Gazlar için			For Gases	
d	Alevle karşı korumalı mahfaza	Gb veya Mb	Flameproof enclosure	Gb or Mb
e	Artırılmış güvenlik	Gb veya Mb	Increased safety	Gb or Mb
ia	Kendinden güvenlik	Ga veya Ma	Intrinsic safety	Ga or Ma
ib	Kendinden güvenlik	Gb veya Mb	Intrinsic safety	Gb or Mb
ic	Kendinden güvenlik	Gc	Intrinsic safety	Gc
ma	Kapsül içine alınmış	Ga veya Ma	Encapsulation	Ga or Ma
mb	Kapsül içine alınmış	Gb veya Mb	Encapsulation	Gb or Mb
mc	Kapsül içine alınmış	Gc	Encapsulation	Gc
nA	Kıvılcım çıkartmaz	Gc	Non-sparking	Gc
nC	Kıvılcım koruma	Gc	Protected sparking	Gc
nR	Nefes almayı kısıtlama	Gc	Restricted breathing	Gc
nL	Enerji sınırlandırma	Gc	Energy limited	Gc
o	Yağa daldırma,	Gb	Oil immersion	Gb
px	Basınç altına alınma	Gb veya Mb	Pressurization	Gb or Mb
py	Basınç altına alınma	Gb	Pressurization	Gb
pz	Basınç altına alınma	Gc	Pressurization	Gc
q	Toz doldurma.	Gb veya Mb	Powder filling	Gb or Mb
Tozlar için			For Dust	
ta	Mahfaza ile koruma	Da	Protection by enclosure	Da
tb	Mahfaza ile koruma	Db	Protection by enclosure	Db
tc	Mahfaza ile koruma	Dc	Protection by enclosure	Dc
ia	Kendinden güvenlik	Da	Intrinsic safety	Da
ib	Kendinden güvenlik	Db	Intrinsic safety	Db
ic	Kendinden güvenlik	Dc	Intrinsic safety	Dc
ma	Kapsül içine alınmış	Da	Encapsulation	Da
mb	Kapsül içine alınmış	Db	Encapsulation	Db
mc	Kapsül içine alınmış	Dc	Encapsulation	Dc
p	Basınç altına alınma	Db veya Dc	Pressurization	Db or Dc

Yanıcı maddelerin patlama sıcaklıklarına göre, güvenlik faktörleri de göz önüne alınarak, patlamaların önlenmesi için tehlikeli ortamlarda bulunması gereken en yüksek yüzey sıcaklıkları da yukarıda Tablo.4'te görüldüğü şekilde sınıflandırılmıştır. Tozlar için belirlenmiş en yüksek yüzey sıcaklığı "T85°C" şeklinde ölçülen değerin kendisi ile ifade edilir.

The maximum allowable temperature classes (or maximum surface temperature of apparatus in case of dust) of potentially explosive areas considering explosive properties and safety factors are outlined in Table-4.

Tablo.4 - Sıcaklık Sınıfları / Table.4 - Temperature Classification

Sıcaklık Sınıfı	Tehlikeli Ortamın Patlama Sıcaklığı (°C)	En Yüksek Yüzey Sıcaklığı (°C)	Örnek Gazlar
Temperature Class	Ignition Temperature of The Flammable Substances in °C	Max. Surface Temperature of Aparatus in °C	Typical Hazardous Material
T1	> 450	450	Metan, propan, hidrojen, vb. Methane, propane, hydrogen etc.
T2	> 300 ≤ 450	300	Etilen, asetilen, etil alkol, vb. Ethylene, acetylene, ethyl alcohol etc.
T3	> 200 ≤ 300	200	Petrol, mazot , vb. Oil, diesel etc.
T4	> 135 ≤ 200	135	Etil eter Ethyl ether
T5	> 100 ≤ 135	100	
T6	> 85 ≤ 100	85	Karbon disülfür Carbon disulfide

Patlayıcı ortamlarla ilişkisi olmayan fakat standartların istediği su, toz, nem gibi etkenlere karşı alınan önlemler için simgesi "Ingress Protection" (Giriş Koruması) teriminin baş harflerinden oluşan IP Koruma Sınıfları tehlikeli ortamlar için de geçerlidir. IP Koruma sınıfları Tablo.5'de gösterilmiştir.

Additionally, Ingress Protection rating for an electrical enclosure indicates how well it is protected against the intrusion of foreign bodies such as tools, dust, and moisture. The "IP" rating classification, used for any type of electrical equipment independent of explosion protectiveness, is outlined in Table.5.

Tablo.5 - Mahfaza Koruma Dereceleri / Table.5 - Enclosure Protection Rationg

IP

6

5

Kıta cısım ve tozlara karşı koruma Protection against solid bodies and dust		Sıvılara karşı koruma Protection against liquids	
Koruma yok. No protection.	0	0	Koruma yok. No protection.
50 mm'den büyük kıta maddelerin girmesi engellenmiştir. Protected against solid bodies larger than 50 mm.	1	1	Dık damlayan su damllarına karşı korunmuş. Protected against vertical water drops falling (condensation).
12,5 mm'den büyük kıta maddelerin girmesi engellenmiştir. Protected against solid bodies larger than 12,5 mm.	2	2	15° açıyla gelen su damlları ve sıçramalarına karşı korunmuş. Protected against drops of water falling up to 15° from the vertical.
2,5 mm'den büyük kıta maddelerin girmesi engellenmiştir. Protected against solid bodies larger than 2.5 mm.	3	3	60° açıyla gelen su damlları ve sıçramalarına karşı korunmuş. Protected against drops of water falling up to 60° from the vertical.
1 mm'den büyük kıta maddelerin girmesi engellenmiştir. Protected against solid bodies larger than 1 mm.	4	4	Herhangi bir doğrultudan gelecek yağmurlama veya sıçrama damllara karşı korunmuş. Protected against water projected from all directions.
Tehlikeli toz birikimi olmaz. Protected against dust.	5	5	Herhangi bir doğrultudan gelecek düşük basınçlı su püskürtmelerine karşı korunmuş. Protected against jets of water from all directions.
Toz kesinlikle girmez. Completely protected against dust.	6	6	Kuvvetli su püskürtmelerine karşı korunmuş. Protected against jets of water of similar force to heavy sea waves.
-	7	7	Geçici sürelerde su altında kalmaya karşı korunmuş. Protected against effects of immersion.
-	8	8	Uzun süreler su altında kalmaya karşı korunmuş. Protected against the continuous effects of immersion under pressure.

Patlayıcı ortamların bulunduđu tesislerde can ve mal kaybını önlemek için kullanılacak teçhizatın patlamaya karşı korumalı olmasının yanısıra bu tesislerdeki elektrik ve mekanik tesisatın tasarımı, montajları, test ve bakımları standartlar, yönetmelikler ve ilgili kılavuzlarda belirtilen koşullara uygun olarak eksiksiz şekilde yerine getirilmelidir.

The use of explosion protective equipment is not sufficient alone to reduce the risk of explosions and related loss of life and significant damages. The design, installation, testing, and maintenance of all of the electrical and mechanical systems should be according to the recommendations and adhere to the standards and regulations in force.

GRUP II

ALEVSIZDIRMAZ

GROUP II

EX-PROOF



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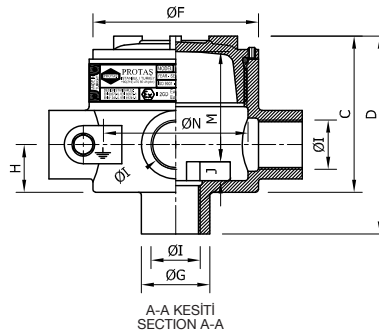
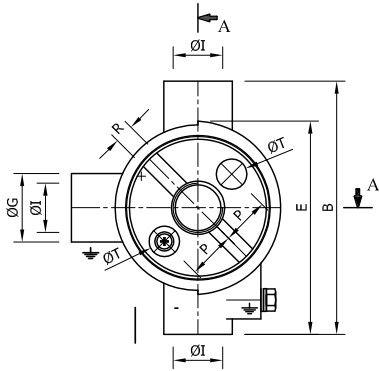
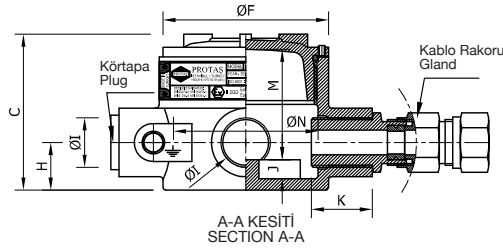
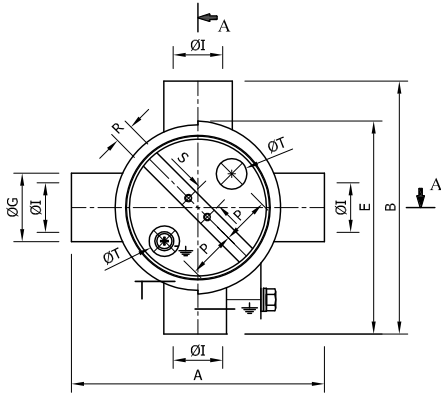
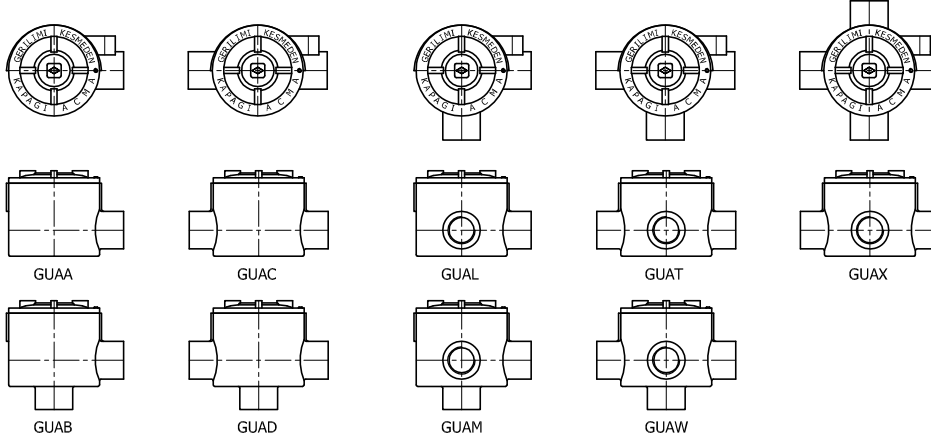


BAĞLANTI KUTULARI

JUNCTION BOXES

GUA

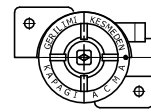
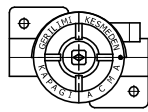
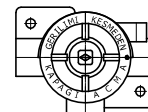
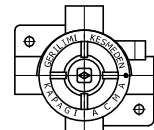
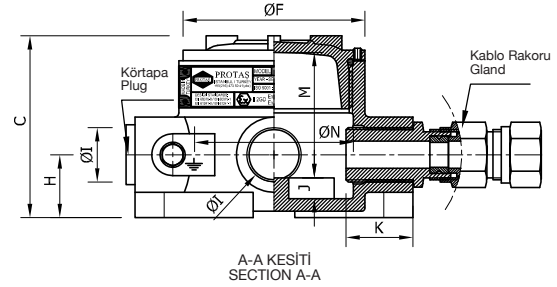
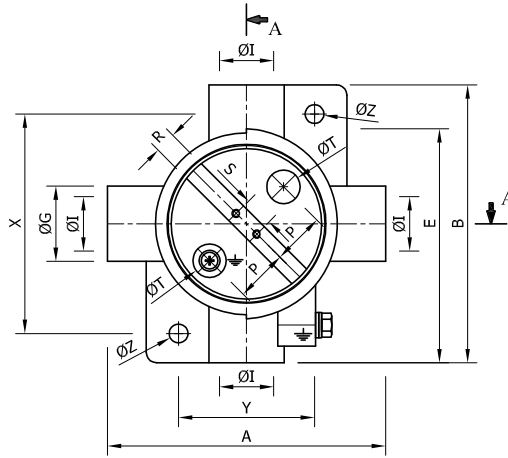
Sınıflandırma / Classification
II 2G Ex d IIB T6 Gb / II 2D Ex t IIIC T85°C Db IP6x
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
LCIE 11 ATEX 3108X / TSE 14.31.35-EX173



Model	Ağırlık (kg) Weight	Ölçüler / Dimensions (mm)																		Topraklama Earthing		
		A	B	C	D	E	ØF	ØG	H	ØI		J	Kmax.	M	ØN	P	R	S	ØT	İç/In	Dış Out	
										NPT	METRIC											
GUA.14	0.35	90	90	61	79	75	60	30	15	1/2"	M20x1.5	7	25	42	48	18	10	9	M3	10	M4	M6
GUA.26	0.65	133	133	82	104	112	87	36	25	3/4"	M25x1.5	10	35	58	76	25	10	22	M3	16	M4	M6
GUA.36	0.60	133	133	92	114	112	87	44	30	1"	M32x1.5	10	35	68	76	25	10	22	M3	16	M4	M6
GUA.47	1.00	161	161	97	119	138	115	55	30	1 1/4"	M40x1.5	10	44	66	102	35	16	70	M6	16	M6	M8
GUA.57	1.50	161	161	102	124	138	115	58	34	1 1/2"	M50x1.5	10	44	71	102	35	16	70	M6	16	M6	M8
GUA.69	2.00	200	200	122	144	176	152	70	38	2"	M60x1.5	5	50	89	140	50	20	100	M6	18	M6	M8

Malzeme / Material: Alüminyum ETIAL 140
O-ring içerir. / Includes O-ring

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GUF14
TEK GİRİŞLİGUF26
İKİ GİRİŞLİGUF36
İKİ GİRİŞLİGUF47
ÜÇ GİRİŞLİGUF57
DÖRT GİRİŞLİ

Model	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)																				Topraklama Earthing		
		A	B	C	E	ØF	ØG	H	ØI		J	Kmax.	M	ØN	P	R	S		ØT	X	Y	ØZ	İç/In	Dış Out
									NPT	METRIC														
GUF.14	0.33	90	90	61	75	60	30	15	1/2"	M20x1.5	7	25	42	48	18	10	9	M3	10	70	45	7	M4	M6
GUF.26	0.80	133	133	87	112	87	36	30	3/4"	M25x1.5	10	35	60	76	25	10	22	M3	16	105	65	9	M4	M6
GUF.36	0.85	133	133	97	112	87	44	35	1"	M32x1.5	10	35	70	76	25	10	22	M3	16	105	65	9	M4	M6
GUF.47	1.20	161	161	102	138	115	55	35	1 1/4"	M40x1.5	10	44	66	102	70	16	70	M6	16	130	90	9	M6	M8
GUF.57	1.90	161	161	107	138	115	58	39	1 1/2"	M50x1.5	10	44	71	102	70	16	70	M6	16	130	90	9	M6	M8

Malzeme / Material: Alüminyum ETIAL 140

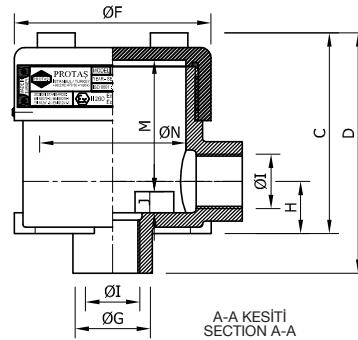
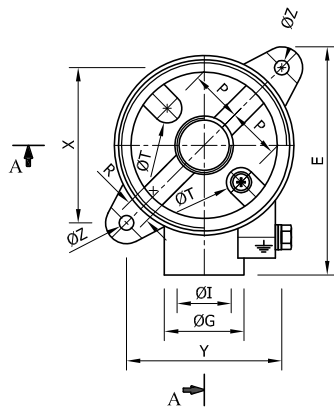
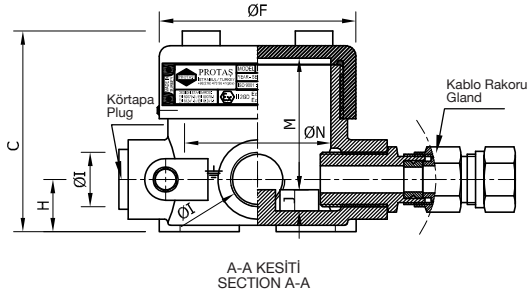
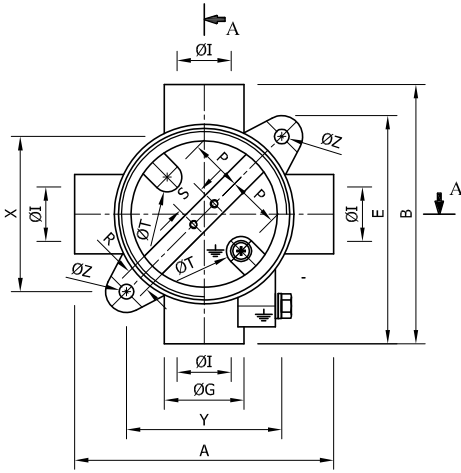
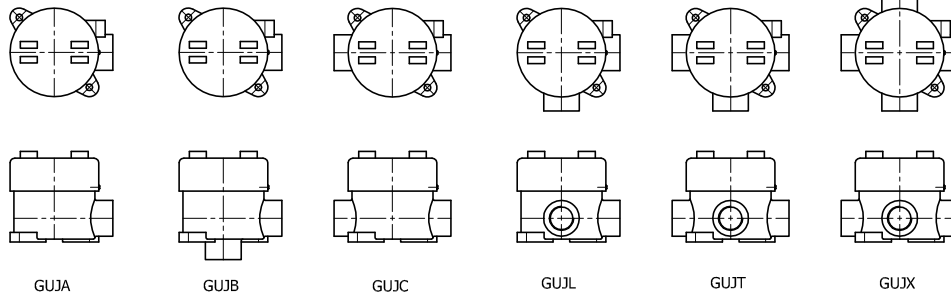
O-ring içerir. / Includes O-ring

BAĞLANTI KUTULARI

JUNCTION BOXES

GUJ

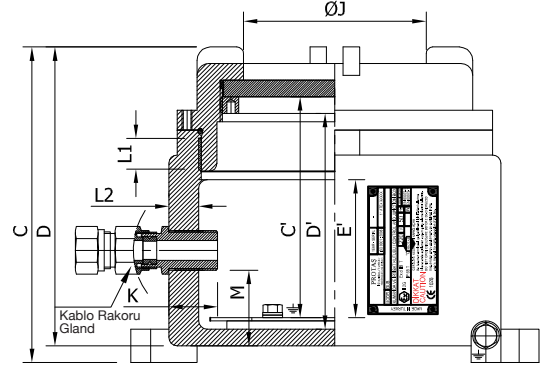
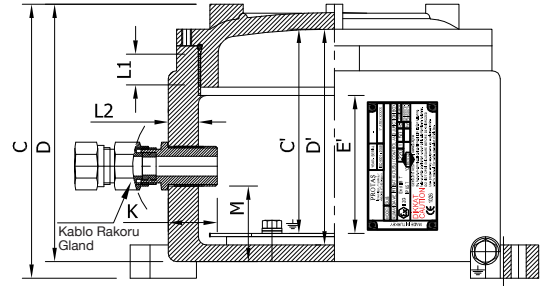
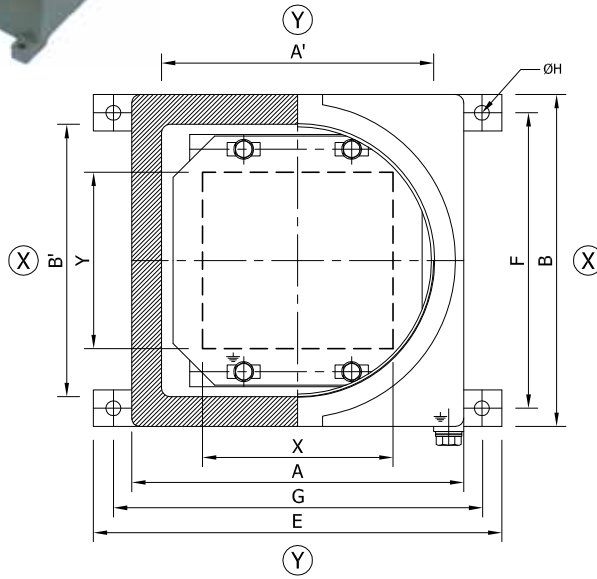
Sınıflandırma / Classification
II 2G Ex d IIB T6 Gb / II 2D Ex t IIIC T85°C Db IP6x
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
LCIE 11 ATEX 3108X / TSE 14.31.35-EX173



Model	Ağırlık (kg) Weight	Ölçüler / Dimensions (mm)																				Topraklama Earthing			
		A	B	C	D	E	ØF	ØG	H	ØI		J	Kmax.	M	ØN	P	R	S	ØT	X	Y	ØZ	İç/In	Dış Out	
										NPT	METRIC														
GUJ.26	0.75	124	124	96	115	109	94	38	25	3/4"	M25x1.5	10	30	63	70	25	12	22	M3	14	74	74	7	M4	M6
GUJ.36	0.95	124	124	113	132	109	94	44	30	1"	M32x1.5	10	30	80	70	25	12	22	M3	14	74	74	7	M4	M6

Malzeme / Material: Alüminyum ETIAL 140
O-ring içerir. / Includes O-ring

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Model	Ağırlık (kg) Weight	** Giriş / Entry			* Max. Akım Max. Limited Current (A)	* Max. Giriş Kablo Kesiti Max. Cable For Entry (mm²)	* Max. Klemens Sayısı Max. No. Of Terminals (mm²)	* Max. Kablo Çapı Max. Cable Diameter (mm²)	Montaj Alanı Montage Area	
			NPT	METRIC					X	Y
GUB.00	2.72	4x	1 1/2"	M50x1.5	50	4x10	4x10 + 6x4	Ø42	70	70
GUB.01	3.70				50	4x10	4x10 + 6x4	Ø42	95	95
GUB.02	5.5				75	4x16	4x16 + 6x10	Ø42	115	115
GUB.03	6.4	8x	2"	M60x1.5	100	4x25	4x35 + 4x16	Ø50	140	140
GUB.03-C	6.4				100	4x25	4x35 + 4x16	Ø50	140	140
GUB.04	12.5				2 1/2"	M75x1.5	145	4x50	4x50 - 4x35	Ø62
GUB.05	22.50	4x	3"	M90x2	185	4x70	4x70 + 4x35	Ø75	210	220
GUB.06	38.90	8x			225	4x95	4x95 + 4x50	Ø75	236	240
* Vmax = 380 / 415Vac **Yüzeylere açılacak en büyük çapta max. toplam giriş sayısı The maximum number of entries with the greatest possible diameter for four sides totally.										

Model	Dış Ölçüler External Dim.					İç Ölçüler Internal Dim.					Montaj Ayağı Fixing Dim.				Cam Window			Topraklama Earthing		Hacim Volume
	A	B	C	D	E	A'	B'	C'	D'	E'	F	X	G	ØH	ØJ	Kmax.	M min.	İç/In	Dış/Out	(cm³)
GUB.00	130	130	131	98	170	94	94	94	103	63	110	X	150	9	-	30	25	M4	M8	685
GUB.01	155	155	136	102	195	119	119	98	107	65	130	X	175	9	-	30	25	M4	M8	1323
GUB.02	175	175	152	111	225	139	139	112	119	78	150	X	200	9	-	30	25	M4	M8	2057
GUB.03	200	200	165	120	246	164	164	123	130	83	178	X	222	9	-	30	25	M6	M8	2975
GUB.03-C	200	200	190	130	246	164	164	133	140	83	178	X	222	9	110	30	25	M6	M8	3147
GUB.04	260	250	205	165	310	220	210	168	175	117	225	X	285	9	-	40	25	M6	M8	6866
GUB.05	290	325	243	185	350	250	285	187	195	130	293	X	320	11	-	40	35	M6	M8	11560
GUB.06	336	360	315	230	416	286	310	234	250	177	320	X	370	13	-	50	45	M6	M8	18817

Ölçüler mm'dir. / Dimensions in mm. Malzeme / Material: Alüminyum ETIAL 140 O-ring içerir. / Includes O-ring

BAĞLANTI KUTULARI JUNCTION BOXES

EJB

Sınıflandırma / Classification

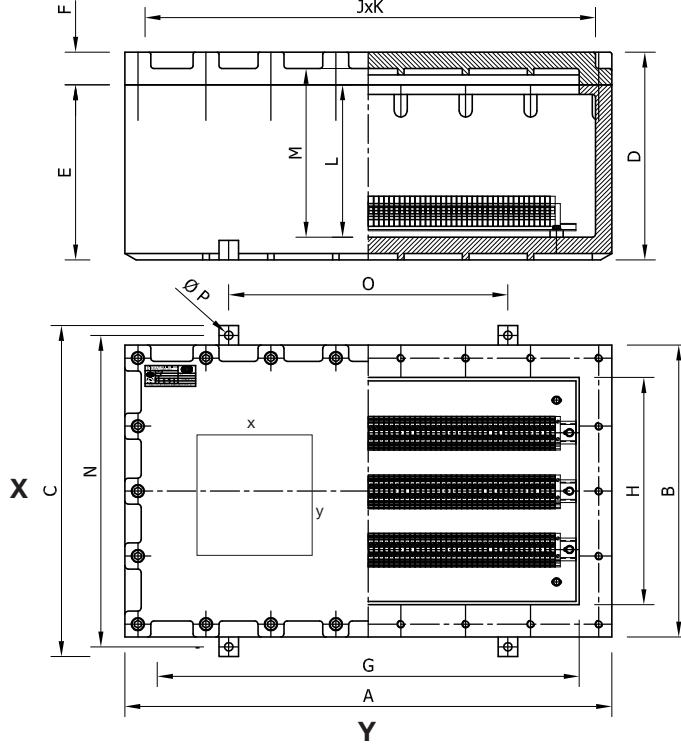
Ex d IIB T6 - IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1/ EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX/173



Gövde Tipi Type	Ağırlık (kg) Weight	Ölçüler / Dimensions (mm)																
		Dış / Outside						İç / Inside						Montaj / Montage			Cam / Glass	
		A	B	C	D	E	F	G	H	J	K	L	M	N	O	Ø P	x	y
EJB.04	40.00	450	370	430	240	200	40	350	270	340	220	175	190	400	340	13	-	-
EJB.04-C																	150	170
EJB.05	70.00	750	450	510	320	270	50	650	350	700	400	235	250	480	430	13	-	-
EJB.05-C																	170	220

Model	Yüzeylere Açılacak Maksimum Delik Adetleri / Max. Hole For Surface															
	X Yüzü / Side - X								Y Yüzü / Side - Y							
	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*
NPT	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
METRIC	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2
EJB.04	14/7	10/7	8/5	4/3	2/2	2/1	1/1	-	18/9	12/7	10/7	5/3	4/2	3/2	2/1	-
EJB.04-C	14/7	10/7	8/5	4/3	2/2	2/1	1/1	-	18/9	12/7	10/7	5/3	4/2	3/2	2/1	-
EJB.05	16/9	14/9	10/7	6/3	4/2	3/1	2/1	1/1	24/13	22/11	20/9	10/5	8/3	5/3	3/1	2/1
EJB.05-C	16/9	14/9	10/7	6/3	4/2	3/1	2/1	1/1	24/13	22/11	20/9	10/5	8/3	5/3	3/1	2/1

Malzeme / Material: Alüminyum ETIAL 140

Uygulamalara bağlı olarak buton, sinyal, pako, kompakt şalter, potansiyometre dahil edilebilir.
Button, signal, rotary switch, compact switch, potentiometer can be included upon request.

*A RAKOR Delik Kombinasyonu / ENTRY Hole Combination
*B UNYS Delik Kombinasyonu / UNYS Hole Combination

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Sınıflandırma / Classification

II 2G Ex d IIB+H2 T6 Gb / II 2D Ex tb IIIC T85°C Db IP65

Standartlar / Standards

EN 60079-0 / EN 60079-1/ EN 60079-31

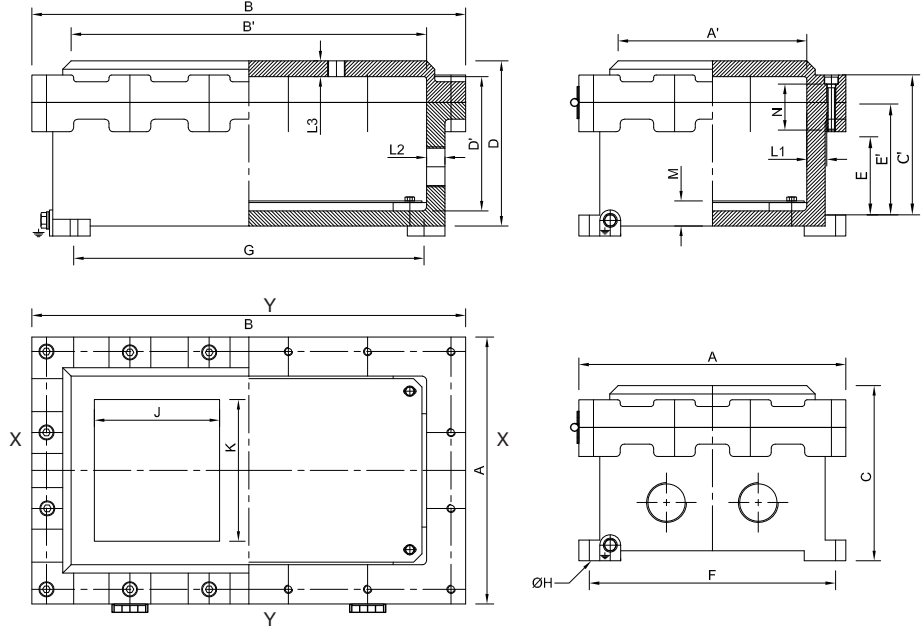
Sertifika No. / Certificate No.

EPS 14 ATEX 1 756 X / TSE 14.31.35-EX/173

BAĞLANTI KUTULARI

JUNCTION BOXES

MU



Malzeme / Material: Alüminyum ETIAL 140

Model	Ağırlık (kg) Weight	Dış Ölçüler External Dim.					İç Ölçüler External Dim.					Montaj Ayağı Fixing Dim.		Cam Window Dim.	Alev Yolu Flame Path				Kapak Cıvataları Cover Screw		Hacim (cm³) Volume														
		A	B	C	D	E	A'	B'	C'	D'	E'	F x G	Ø H	J x K	L1	L2	L3	M	n°	Ø x N															
MU.10	8.00	210	285	153	148	77	134	209	110	117	98	190 x 225	9	-	22	18	18	20	10	M8 x 30	3.581,7														
MU.20	13.50	230	330	172	170	69	154	254	125	137	98	210 x 260	9	-	19	18	18	27	10	M8 x 35	5.315,3														
MU.20-C	14.00													70 x 130							5.272,3														
MU.23	20.00	280	430	210	198	89	186	336	149	161	118	250 x330	11	-	24	18	19	30	14	M8 x 35	10.061,9														
MU.23-C	20.20													130 x 150							9.977,9														
MU.30	30.00	320	520	210	198	82	226	426	149	161	118	290 x 420	11	-	25	18	19	30	16	M10 x 40	15.500,5														
MU.30-C	33.00													150 x 170							15.358,5														
MU.30-YK18	32.10			240	228				219	231				-							18.388,7														
MU.30-YK18-C	33.00													150 x 170							18.246,7														
MU.30-YK22	33.80								-	22.239,8																									
MU.30-YK22-C	34.50								150 x 170	22.097,8																									
MU.40	58.30			420	620				225	218				95							320	520	172	161	115	400 x 530	11	-	27	22	24	34	20	M10 x 60	27.007,4
MU.40-C	59.00																											170 x 220							26.806,4
MU.50	68.00	420	620	338	331	185	320	520	262	274	228	400 x 530	11	-	27	22	24	34	20	M10 x 60	45.311,4														
MU.50-C	68.80													170 x 220							45.110,4														
MU.50-YK32	72.80			402	395				326	338				-							55.429,8														
MU.50-YK32-C	73.50													170 x 220							55.228,8														

Ölçüler mm'dir. / Dimensions in mm.

Model	Yüzeylere Açılacak Maksimum Delik Adetleri / Max. Hole For Surface															
	X Yüzü / Side - X								Y Yüzü / Side - Y							
	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*
NPT	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
METRIC	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2
MU.10	4/2	3/2	2/1	2/1	2/1	1/1	-	-	6/3	5/3	4/2	3/2	2/1	2/1	-	-
MU.20	4/3	3/2	2/1	2/1	2/1	1/1	-	-	8/5	6/4	5/3	3/2	3/2	2/1	-	-
MU.23	6/3	5/3	3/2	3/1	2/1	1/1	1/1	-	12/7	10/5	7/4	4/3	4/2	3/2	1/1	-
MU.30	10/5	8/5	6/3	4/3	3/1	2/1	1/1	-	16/9	14/9	9/5	5/3	5/3	4/3	2/1	-
MU.40	12/7	10/7	7/5	5/3	3/2	3/2	2/1	-	20/11	16/11	12/7	8/5	6/5	5/3	3/2	-
MU.50	16/9	15/9	10/7	8/5	6/3	4/2	3/1	2/1	30/13	24/13	18/9	12/7	10/5	8/3	4/2	3/1

Uygulamalara bağlı olarak buton, sinyal, pako, kompakt şalter, potansiyometre dahil edilebilir.
Button, signal, rotary switch, compact switch, potentiometer can be included upon request.

*A RAKOR Delik Kombinasyonu / ENTRY Hole Combination
*B UNYS Delik Kombinasyonu / UNYS Hole Combination

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PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011

Üretim Kalite Sistemi



KUMANDA KUTULARI CONTROL STATIONS

MUM

Sınıflandırma / Classification

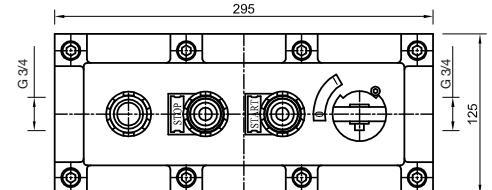
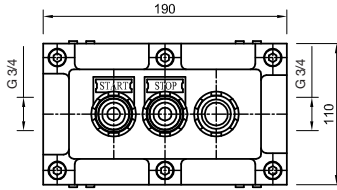
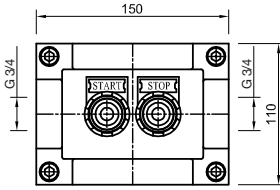
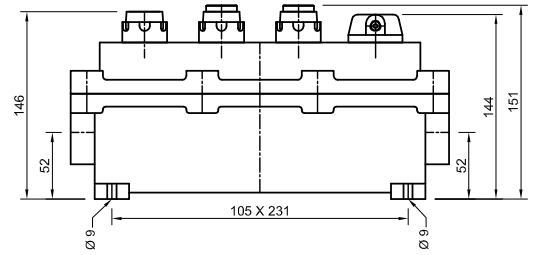
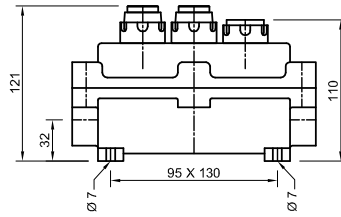
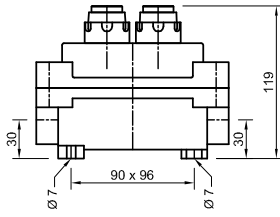
Ex d IIB T6 - IP 55

Standartlar / Standards

EN 60079-0 / EN 60079-1/ EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX/173



MUMY

MUMK

MUMKL

MUM	L	3	1	2	5
Ürün Tipi Product	Gövde Tipi/Body Type	Kapak Düzeni / Order On Cover			
Y	İkili Two Places	0 - 5			
K	Üçlü Three Places	0 - 5			
L	Dörtlü Four Places	0 - 6, W			
		X	Boş / Empty		
		W	W Otomat / W Automaton		
		0	Potansiyometre / Potentiometer		
		1	Start Butonu / Start Button		
		2	Stop Butonu / Stop Button		
		3	Acil Stop Butonu / Emergency Stop Button		
		3A	Kilitli Acil Stop Butonu / Emergency Stop Button With Lock		
		4	Kırmızı Sinyal / Red Signal Lamp		
		5	Yeşil Sinyal / Green Signal Lamp		
		6	Pako / Switch 1x20A (0-1)		
		7	Mandal Buton (0-1 kalıcı buton) / Passion Switch		

Malzeme / Material: Alüminyum ETIAL 140

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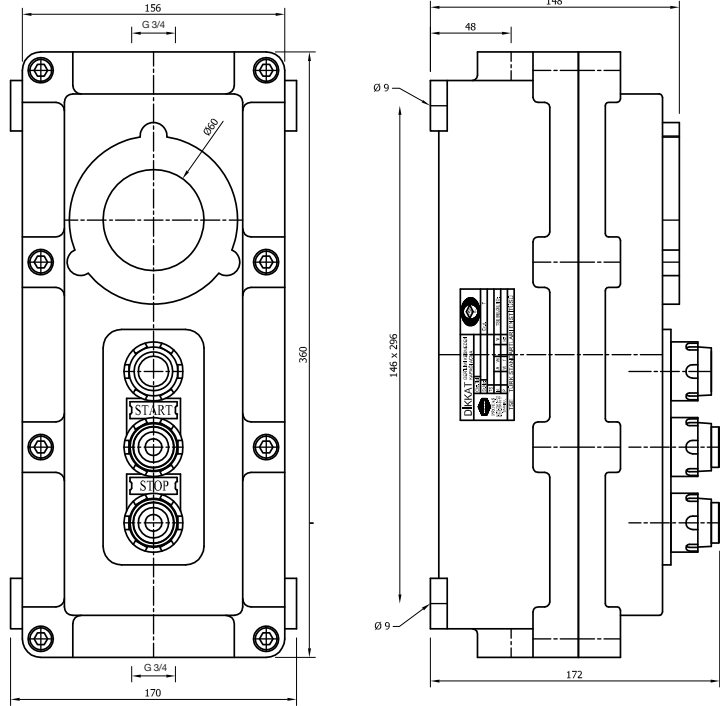
AMPERMETRE KUMANDA KUTULARI

CONTROL STATIONS WITH AMMETER

MUMA

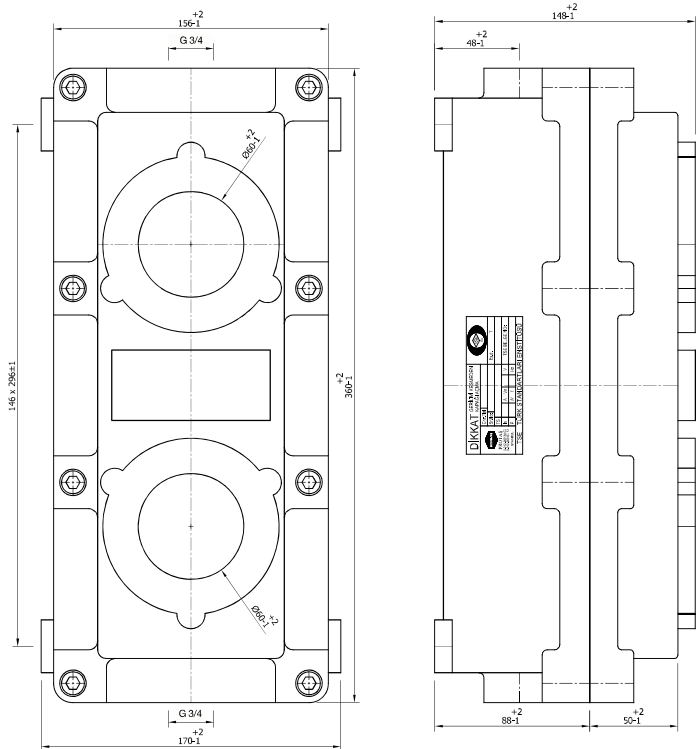


MUMA.C



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 7.90 kg

MUMA.CC



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 8.10 kg

MUMA		Cam Düzeni			
Ürün Tipi		Glass On Cover	3	1	2
Product			Kapak Düzeni / Order On Cover		
		Tek Camlı Single Pane C	Çift Camlı Two Panes CC	0 - 6, A, V	
				0	Potansiyometre / Potentiometer
				1	Start Butonu / Start Button
				2	Stop Butonu / Stop Button
				3	Acil Stop Butonu / Emergency Stop Button
				3A	Kilitli Acil Stop Butonu / Emergency Stop Button With Lock
				4	Kırmızı Sinyal / Red Signal Lamp
				5	Yeşil Sinyal / Green Signal Lamp
				6	Şalter / Circuit Breaker
				7	Mandal Buton (0-1 kalıcı buton) / Passion Switch
				A	Ampemetre Kutusu / Ammeter Box
				V	Voltmetre Kutusu / Voltmeter Box

VİNÇ KUMANDA KUTULARI

LIFT CONTROL STATIONS

MUMB

Sınıflandırma / Classification

Ex d IIB T6 - IP 55

Standartlar / Standards

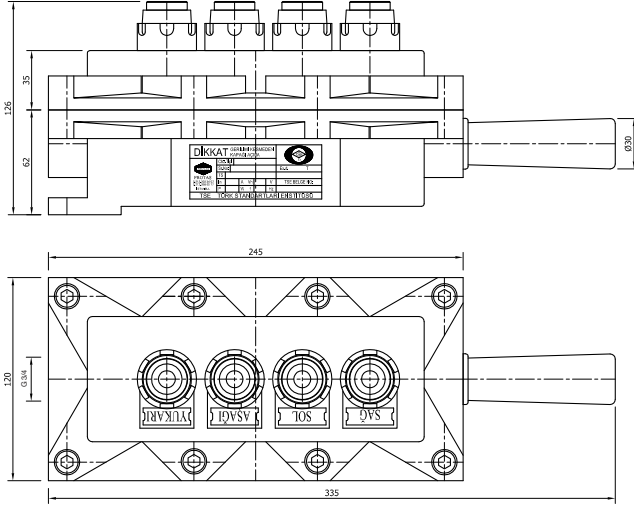
EN 60079-0 / EN 60079-1/ EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX/173



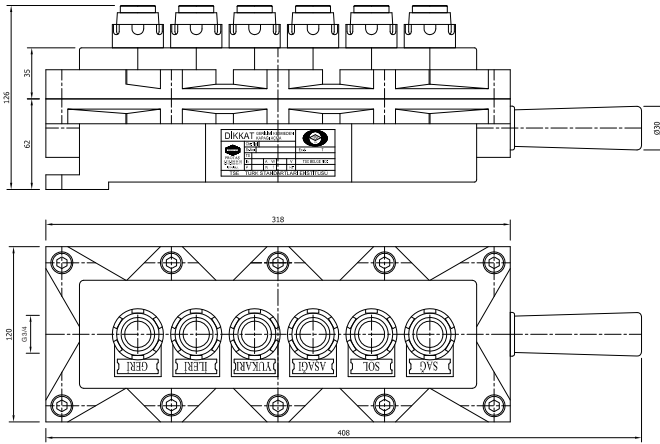
MUMB.4



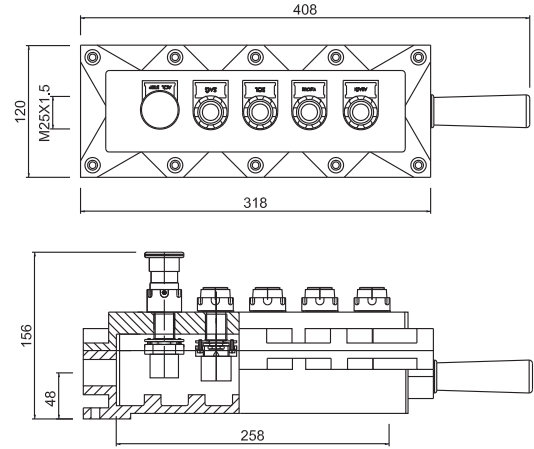
Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 1.50 kg



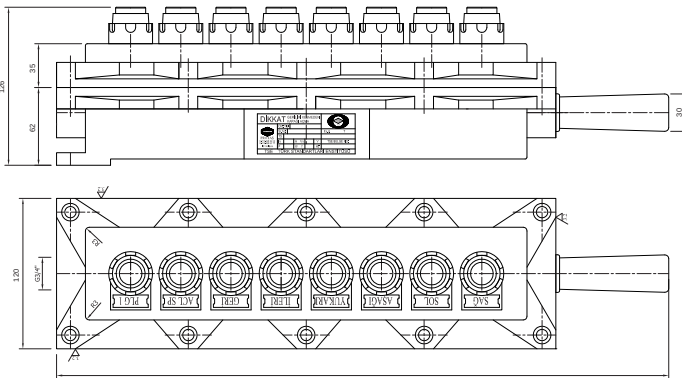
MUMB.6



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 3.00 kg



MUMB.8



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 4.70 kg

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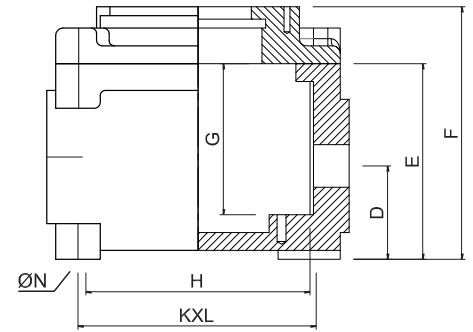
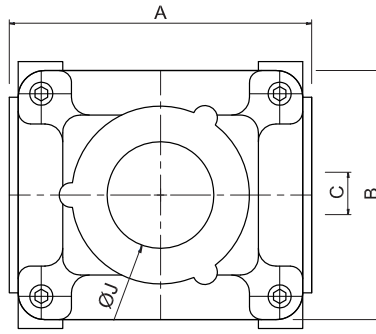
AMPERMETRE KUMANDA KUTULARI

CONTROL STATIONS WITH AMMETER

MUMC

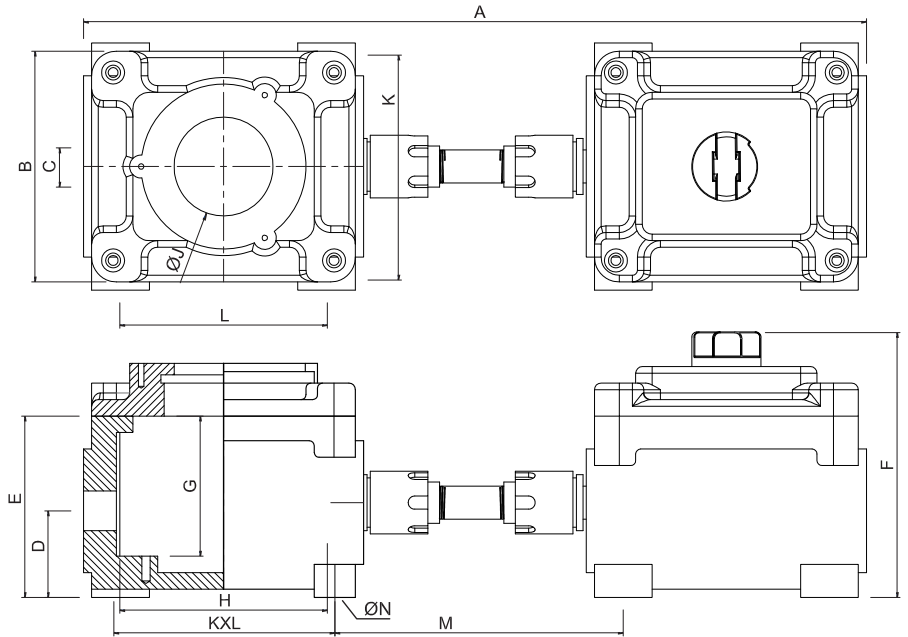


MUMC.0



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 1.50 kg

MUMC.1



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 3.00 kg

MUMC	1	A
Ürün Tipi Product	Gövde Tipi/Body Type	Kapak Düzeni / Order On Cover
0	Camlı Kutu Box With Insp. Window	A Ampermetre Kutusu Ammeter Box
1	Faz Seçici & Camlı Kutu Phase Selector Switch & Insp. Window	V Voltmetre Kutusu Voltmeter Box

Model	Ağırlık (kg) Weight	Ölçüler / Dimensions (mm)										
		Dış / Outside						İç / Inside			Installation	
		A	B	C	D	E	F	G	H	ØJ	KxL / M	ØN
MUMC.0	3.80	170	140	M25x1.5	53	110	142	85	130	60	130x135	9
MUMC.1	7.10	475	140	M25x1.5	53	110	162	85	130	60	130x135/170	9

KUMANDA KUTULARI

CONTROL STATIONS

Sınıflandırma / Classification

Ex d IIB T6 - IP 65

Standartlar / Standards

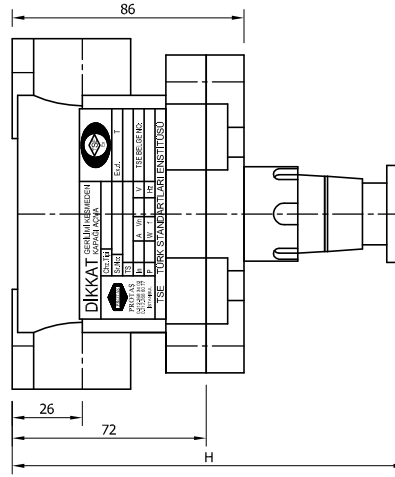
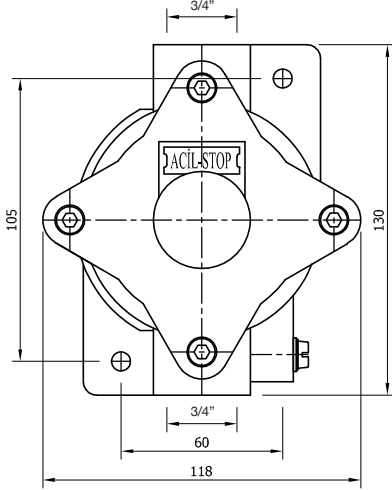
EN 60079-0 / EN 60079-1/ EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX/173



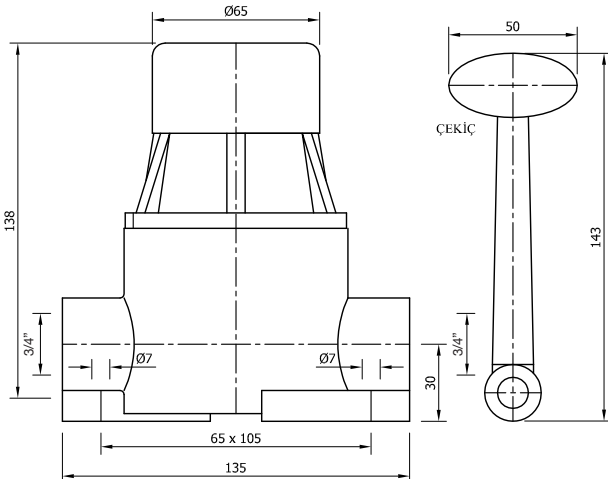
EFD KUMANDA KUTULARI / CONTROL STATIONS



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 1.00 kg

EFD	3	H (mm)
Ürün Tipi Product	Kapak Düzeni / Order On Cover	
0	Potansiyometre / Potentiometer	108
1	Start Butonu / Start Button	115
2	Stop Butonu / Stop Button	115
3	Acil Stop Butonu / Emergency Stop Button	146
3A	Kilitli Acil Stop Butonu / Emergency Stop Button With Lock	146
4	Kırmızı Sinyal / Red Signal Lamp	110
5	Yeşil Sinyal / Green Signal Lamp	110

EFDC. 1 E YANGIN İHBAR / FIRE ALARM



Malzeme / Material: Alüminyum ETIAL 140 / Ortalama Ağırlık / Approximate Weight: 2.20 kg

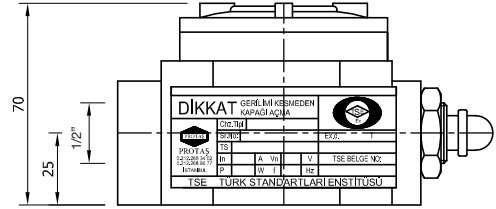
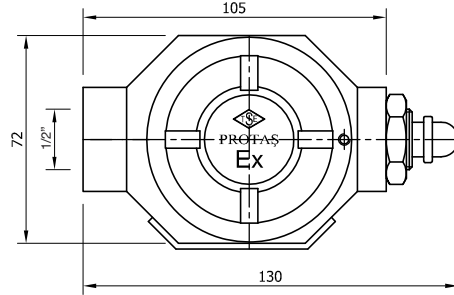
www.protas.com.tr

LİMİT ŞALTERLER

LIMIT SWITCHES

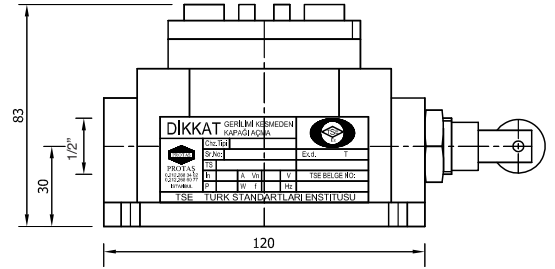
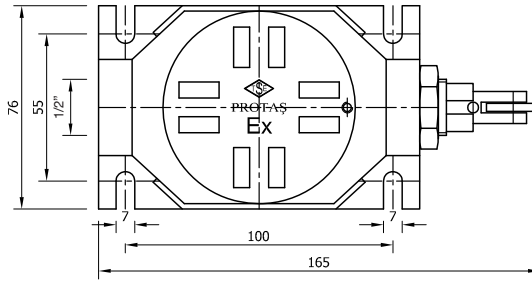


Yatay Limit Şalter / Horizontal Limit Switches

Ex d IIC T6 **FL.2 H2**

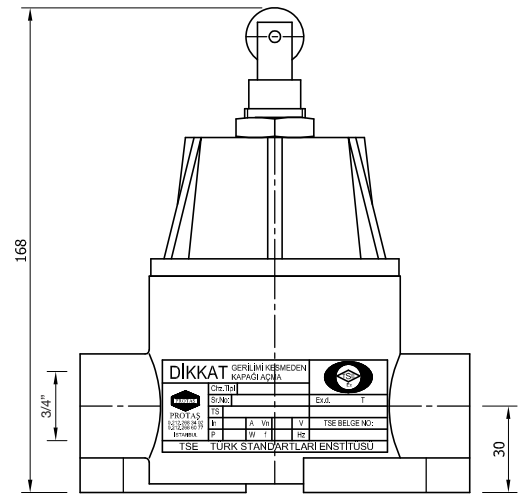
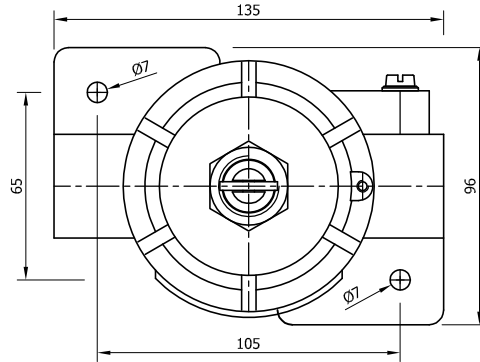
Malzeme / Material: Alüminyum ETIAL 140
Ortalama Ağırlık / Approximate Weight: 0.65 kg

Yatay Limit Şalter / Horizontal Limit Switches

Ex d IIB T6 **FL.2**

Malzeme / Material: Alüminyum ETIAL 140
Ortalama Ağırlık / Approximate Weight: 0.71 kg

Dikey Limit Şalter / Vertical Limit Switches

Ex d IIB T6 **FC.2**

Malzeme / Material: Alüminyum ETIAL 140
Ortalama Ağırlık / Approximate Weight: 1.30 kg

LİMİT ŞALTERLER

LIMIT SWITCHES

Sınıflandırma / Classification

Ex d IIB / IIC T6 - IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1/ EN 60079-31

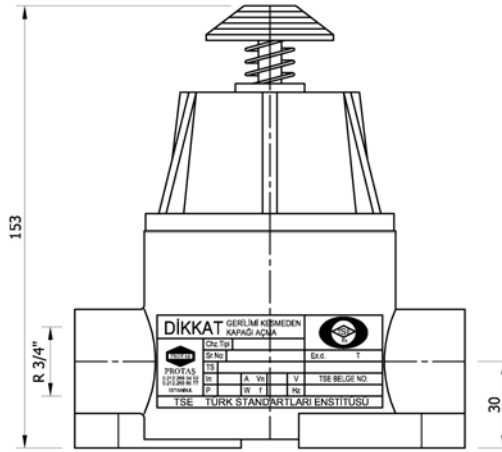
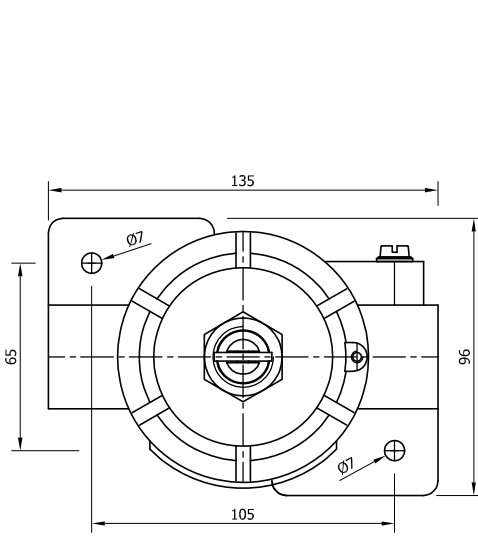
Sertifika No. / Certificate No.

TSE 14.31.35-EX/173



FCE.2 (IP55) Ex d IIB T6

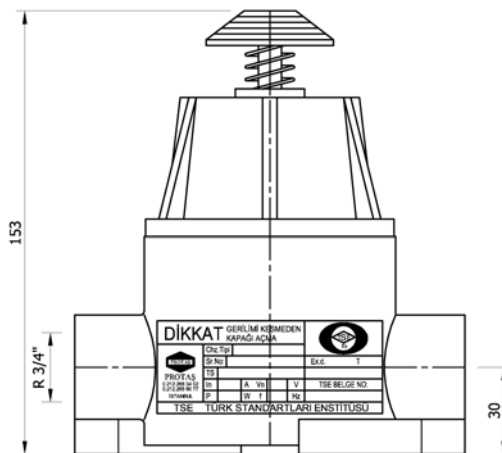
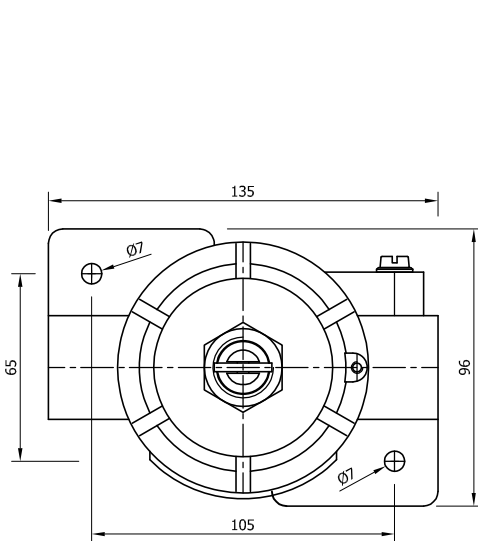
Ayak Pedalı / Food Pedal



Malzeme / Material: Alüminyum ETIAL 140
Ortalama Ağırlık / Approximate Weight: 1.30 kg

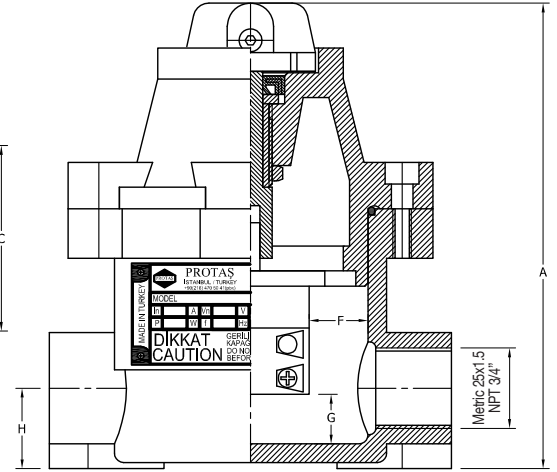
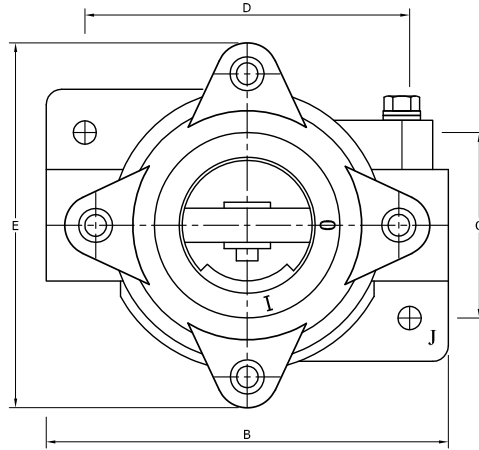
FCE.2 (IP66) Ex d IIB T6

Ayak Pedalı / Food Pedal



Malzeme / Material: Alüminyum ETIAL 140
Ortalama Ağırlık / Approximate Weight: 1.30 kg

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Model	A	B	C	D	E	F	G	H	ØJ
EFSC.21	150.50	130	60	105	118	19	15.50	26	7.50
EFSC.22							15.50		
EFSC.23							3.00		
EFSC.21-A							15.50		
EFSC.22-A							3.00		
EFSC.21-K							15.50		
EFSC.21-V							15.50		
EFSC.21-Y							15.50		
EFSC.31	191.50	184	65	162	172	33	42.00	27	9.00
EFSC.32							42.00		
EFSC.33							29.00		
EFSC.31-V							42.00		
EFSC.31-A							42.00		
EFSC.32-A							29.00		
EFSC.33-A							16.00		

Ölçüler mm'dir. / Dimensions in mm.

Model	Ağırlık (kg) Weight	Güç / Wattage	Açıklama / Description	Giriş / Entries	
				NPT	METRIC
EFSC.21	1.40	1x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.22	1.40	2x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.23	1.40	3x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.31	3.10	1x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.32	3.10	2x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.33	3.10	3x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
EFSC.21-A	1.40	1x20A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
EFSC.22-A	1.40	2x20A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
EFSC.31-A	3.10	1x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
EFSC.32-A	3.10	2x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
EFSC.33-A	3.10	3x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
EFSC.21-K	1.40	1x20A	Komütatör - Gang	3/4"	M25x1.5
EFSC.21-V	1.40	1x20A	Vaviyen - 2 Step	3/4"	M25x1.5
EFSC.31-V	3.10	1x32A	Vaviyen - 2 Step	3/4"	M25x1.5
EFSC.21-Y	1.40	1x20A	Yaylı Kutup Değiştirici Changeover with Return	3/4"	M25x1.5

Malzeme / Material: Alüminyum ETIAL 140

ELEKTRİK ANAHTARLARI

ELECTRIC SWITCHES

EFSC

Sınıflandırma / Classification

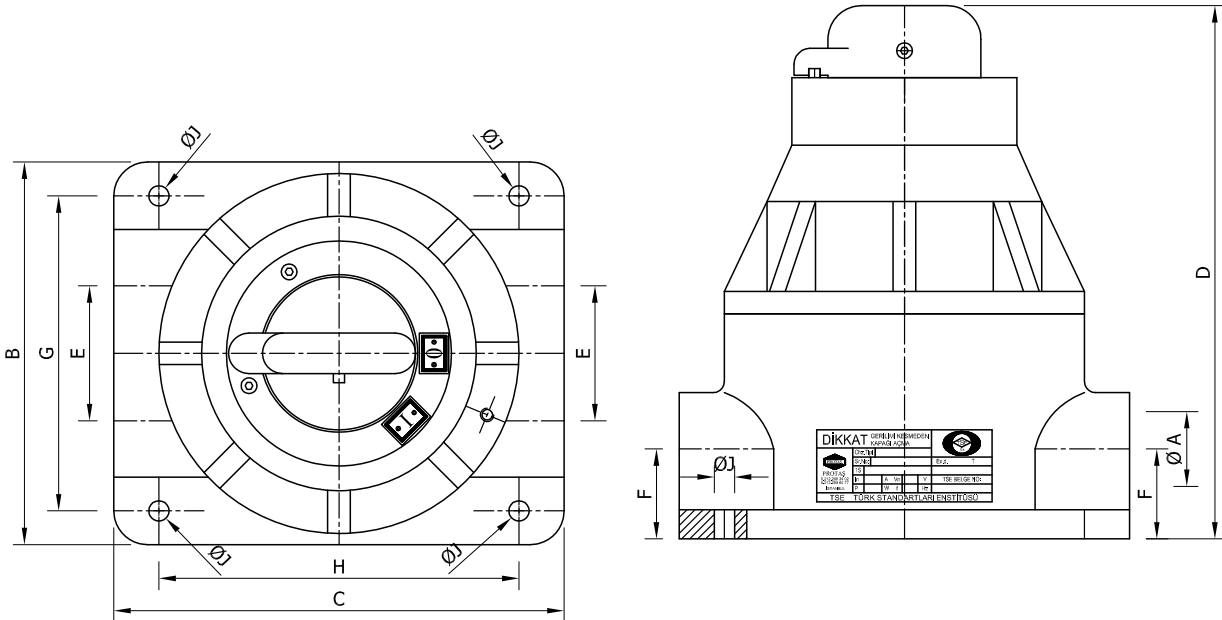
Ex d IIB T6 IP 65

Standartlar / Standards

EN 60079-0 / EN 60079 - 1 / EN 60079 - 31

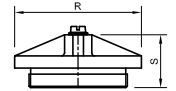
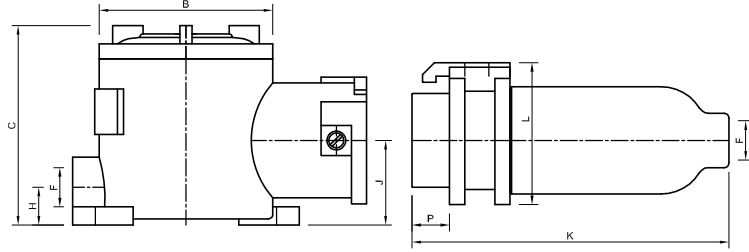
Sertifika No. / Certificate No.

TSE 14.31.35-EX/173

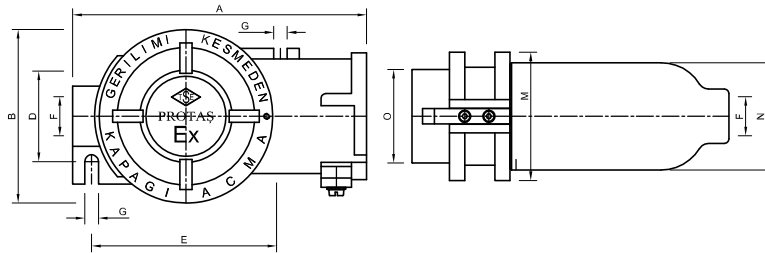


Model	Ağırlık (kg) Weight	Güç /Wattage	ØA		B	C	D	E	F	G	H	ØJ
			NPT	METRIC								
EFSC.43	2.90	3x40A	1"	M32x1.5	170	200	237	60	40	140	160	9
EFSC.53	3.10	3x63A	1"	M32x1.5	170	240	282	60	45	140	200	9
EFSC.63	3.50	3x80A	1 1/2"	M50x1.5	210	270	322	80	55	180	220	11

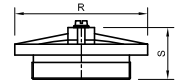
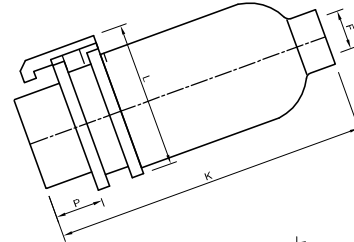
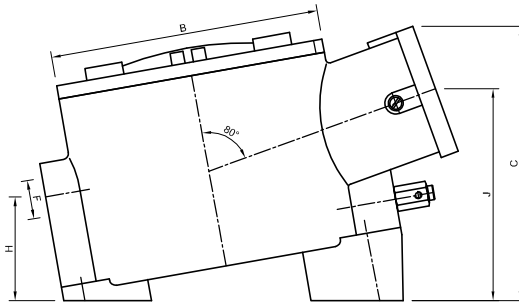
Malzeme / Material: Alüminyum ETIAL 140



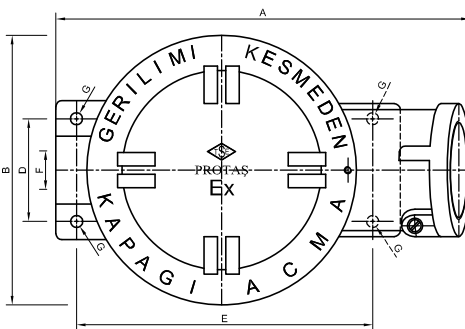
Priz körleme kapağı / Socket plug



GÖVDE TİPİ - 1



Priz körleme kapağı / Socket plug



GÖVDE TİPİ - 2

Fiş veya priz ayrı ayrı temin edilebilir. / Socket and plug can be provided individually.

	Ağırlık (kg) Weight	Güç Wattage	Gövde Tipi Body Type	A	B	C	D	E	ØF		G	H	J	K	L	M	N	O	P	R	S
									NPT	METRIC											
FSQC.11	2.60	1x10A	1	165	104	114	60	110	3/4"	M25x1.5	9	27	50	141	75	66	60	47	27	66	32
FSQC.21	4.00	1x20A		195	115	135	60	123	3/4"	M25x1.5	9	25	56	210	94	85	71	62	25	84	35
FSQC.23	3.50	3x20A		195	130	132	60	123	3/4"	M25x1.5	9	25	56	210	94	85	71	62	25	84	35
FSQC.31	4.50	1x32A																			
FSQC.33	4.50	3x32A																			
FSQC.43	5.50	3x40A	2	260	162	168	100	155	3/4"	M25x1.5	9	48	71	229	113	105	93	70	34	105	43
FSQC.53	6.70	3x63A		343	223	227	85	245	1"	M32x1.5	10	87	175	260	122	110	100	78	40	110	43

Ölçüler mm'dir. / Dimensions in mm.

Malzeme / Material: Alüminyum ETIAL 140

FLORESAN AYDINLATMA ARMATÜRLERİ

FLUORESCENT LIGHTING FIXTURES

EVFR

Sınıflandırma / Classification
II 2G Ex d IIB* T6 Gb / II 2D Ex tb IIIC T85°C Db IP6x
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
SIRA 11 ATEX 1093X / TSE 14.31.35-EX/174

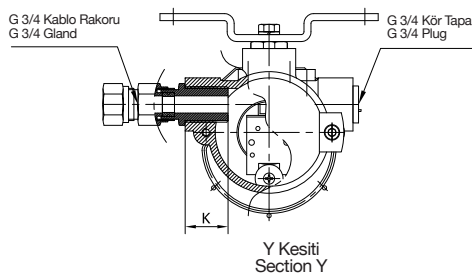
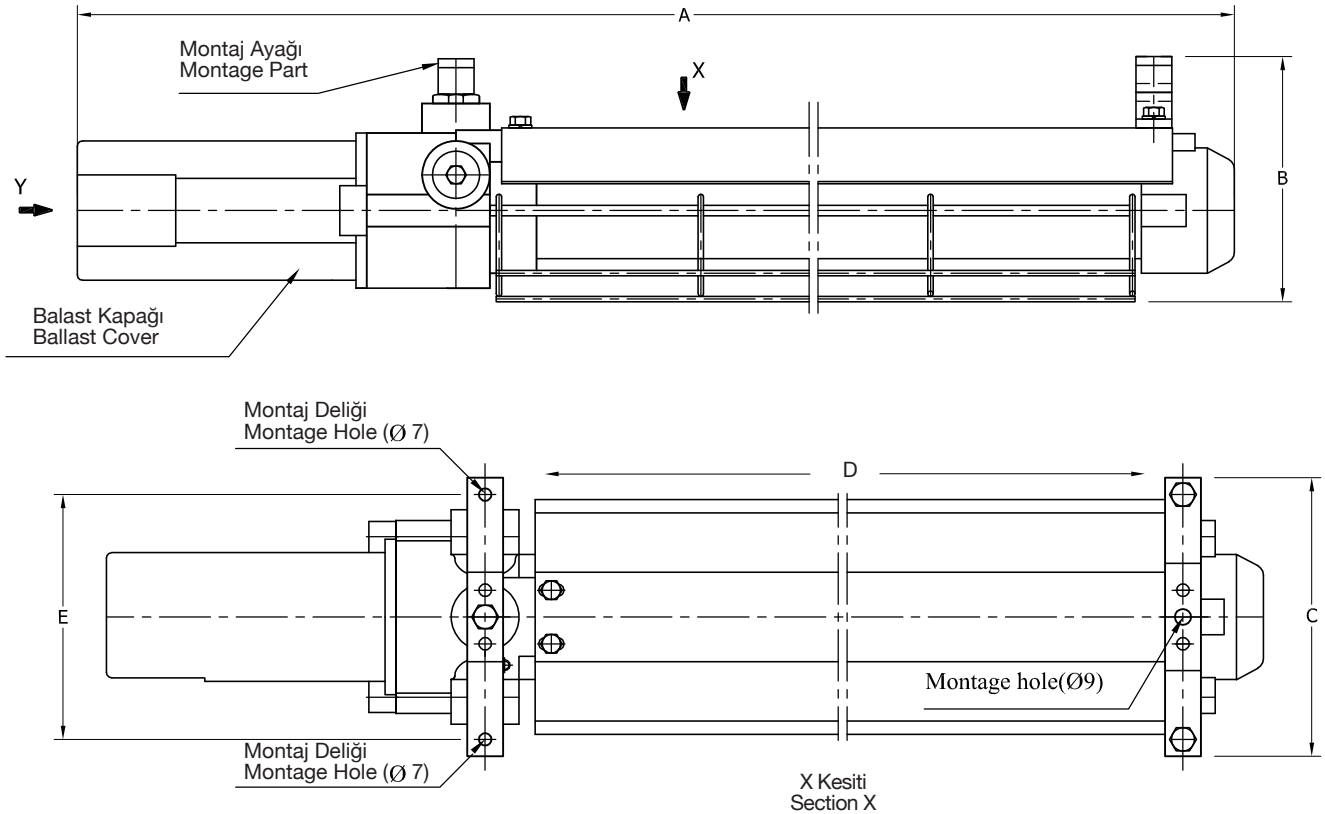
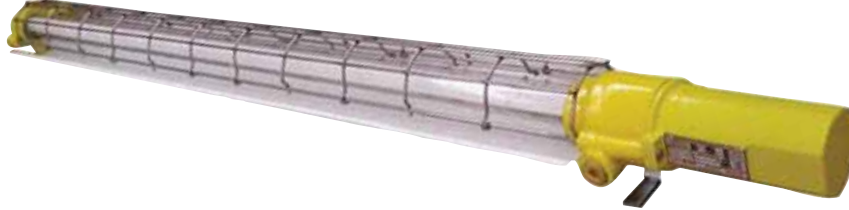


EVFR.118

II 2GD Ex d IIC T6 Gb - Ex tb T85°C Db IP 6X
T8 Floresan / T8 Fluorescent
Elektronik Balastlı / Electronic Ballast
220V 50Hz

EVFR.136

II 2GD Ex d IIB T6 Gb - Ex tb T85°C Db IP 6X
T8 Floresan / T8 Fluorescent
Elektronik Balastlı / Electronic Ballast
220V 50Hz



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lumen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVFR.118-E	5.50	860	147	156	600	137	40	18	T8	1350	6000
EVFR.136-E	7.00	1460			1200			36	T8	2350	6000

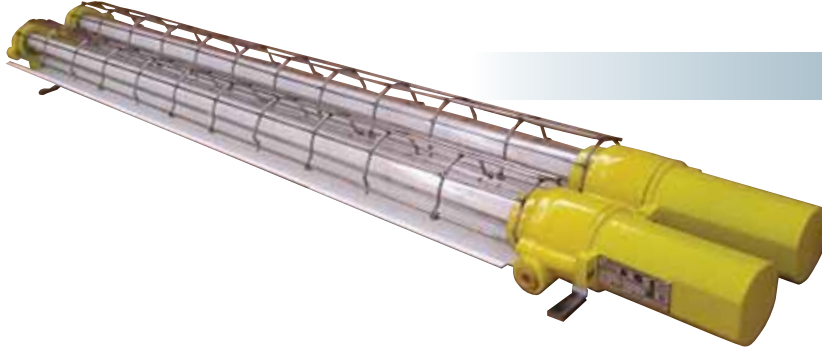
Ölçüler mm'dir. / Dimensions in mm.
Floresan lamba dahil / Fluorescent tube included
1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı
Material: Aluminum ETIAL 140 with borosilicate glass

FLORESAN AYDINLATMA ARMATÜRLERİ

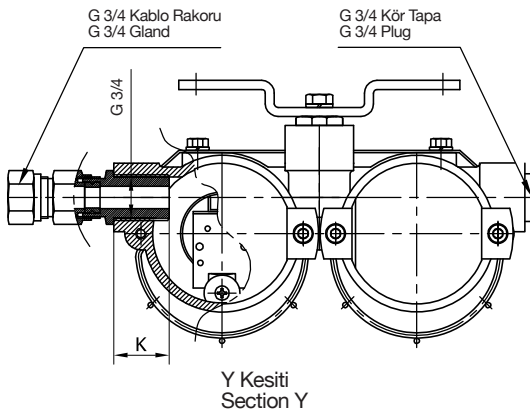
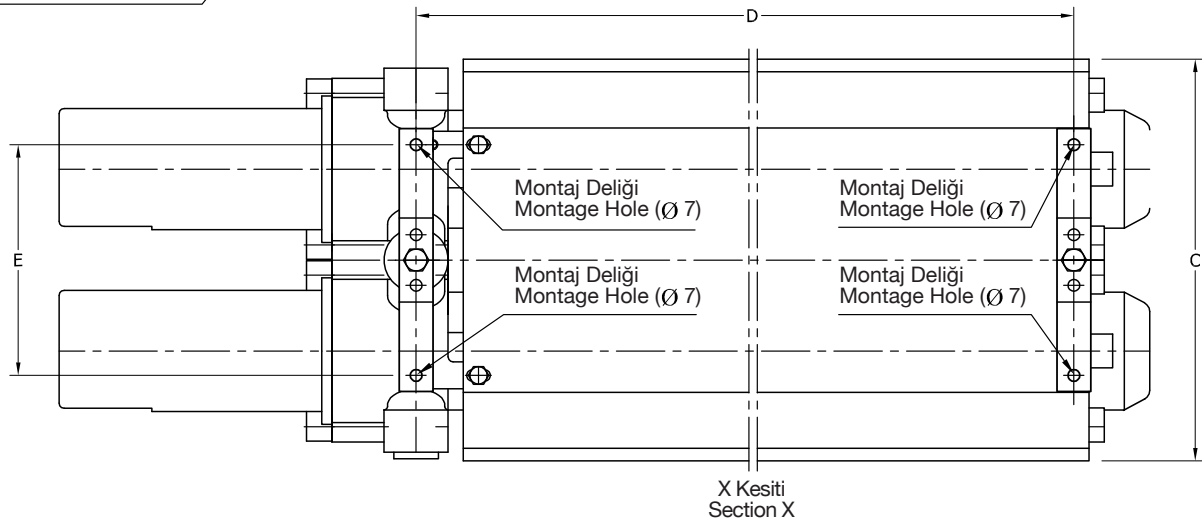
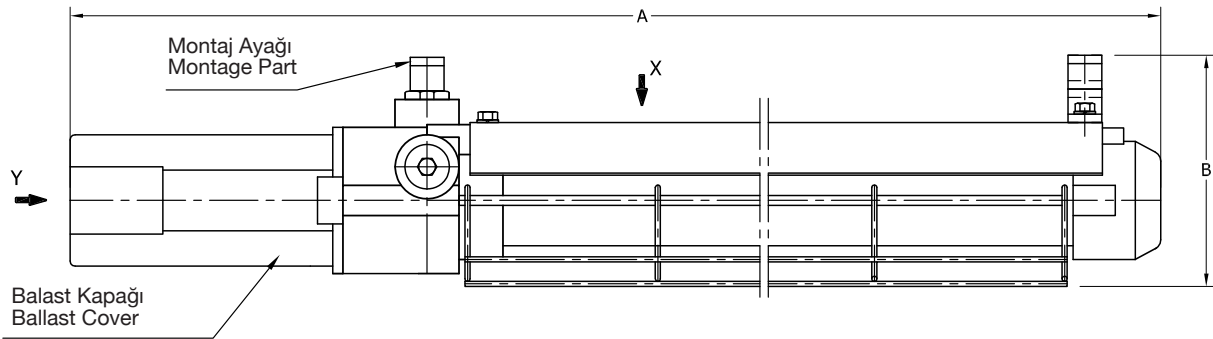
FLUORESCENT LIGHTING FIXTURES

EVFR



EVFR.218-E / EVFR.236-E

T8 Floresan / T8 Fluorescent
Elektronik Balastlı / Electronic Ballast
220V 50Hz



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVFR.218-E	12.00	860	147	237	600	137	40	2x18	T8	2700	6000
EVFR.236-E	14.00	1460			1200			2x36	T8	4700	6000

Ölçüler mm'dir. / Dimensions in mm.
Floresan lamba dahil / Fluorescent tube included
1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı
Material: Aluminum ETIAL 140 with borosilicate glass

FLORESAN AYDINLATMA ARMATÜRLERİ

FLUORESCENT LIGHTING FIXTURES

EVFR

Sınıflandırma / Classification

Ex d IIC T6 IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1/ EN 60079-31

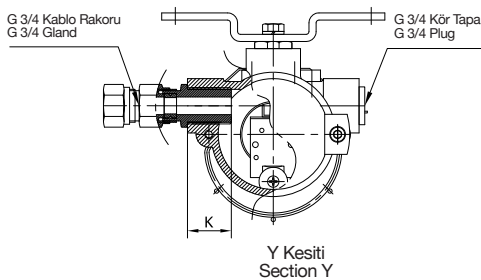
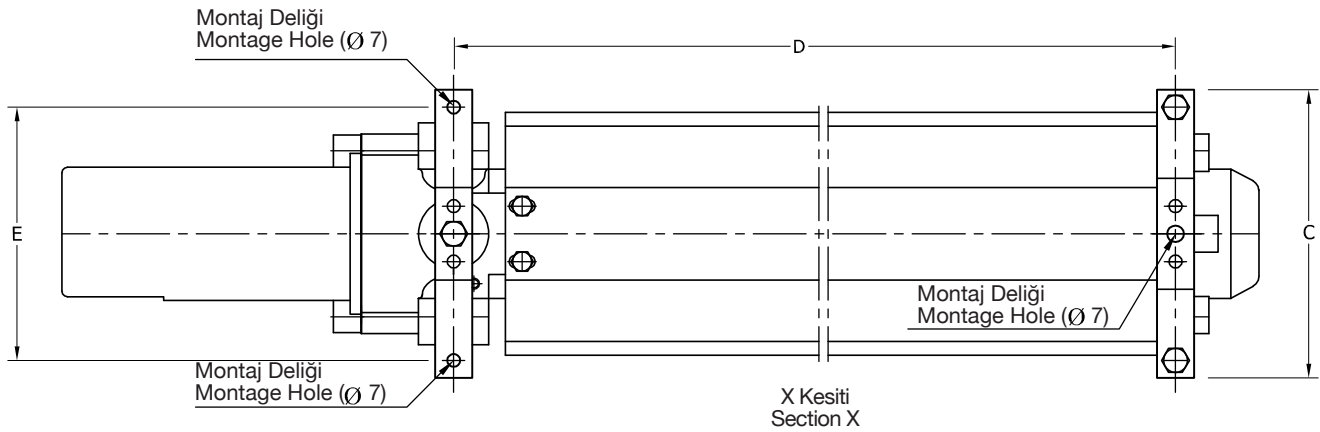
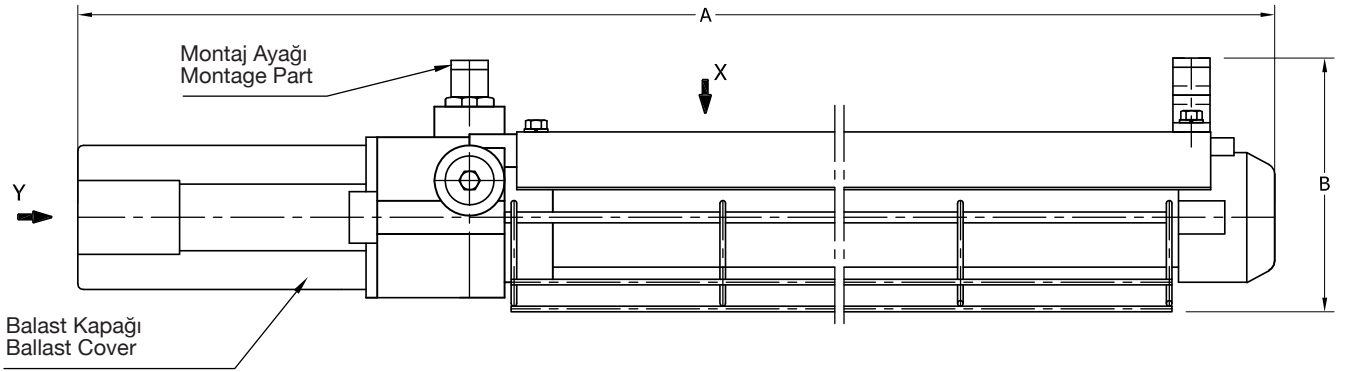
Sertifika No. / Certificate No.

TSE 14.31.35-EX / 174



EVFR.154-E

T5 Floresan / T5 Fluorescent
Elektronik Balastlı / Electronic Ballast
220V 50Hz



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVFR.154-E	7.00	1460	147	156	1200	137	40	54	T5	4050	6000

Ölçüler mm'dir. / Dimensions in mm.

Floresan lamba dahil / Fluorescent tube included

1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı

Material: Aluminum ETIAL 140 with borosilicate glass

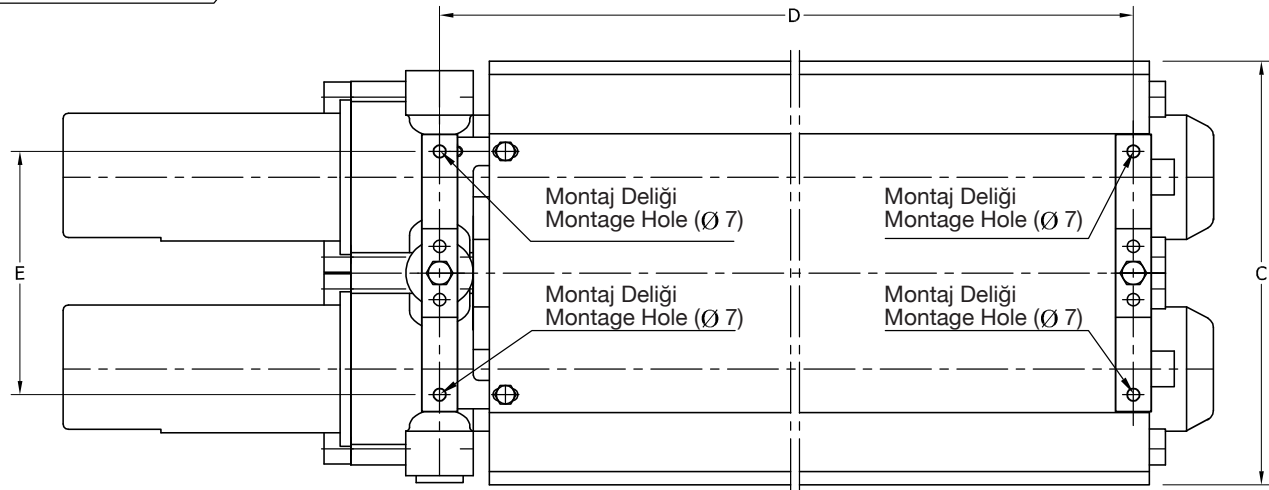
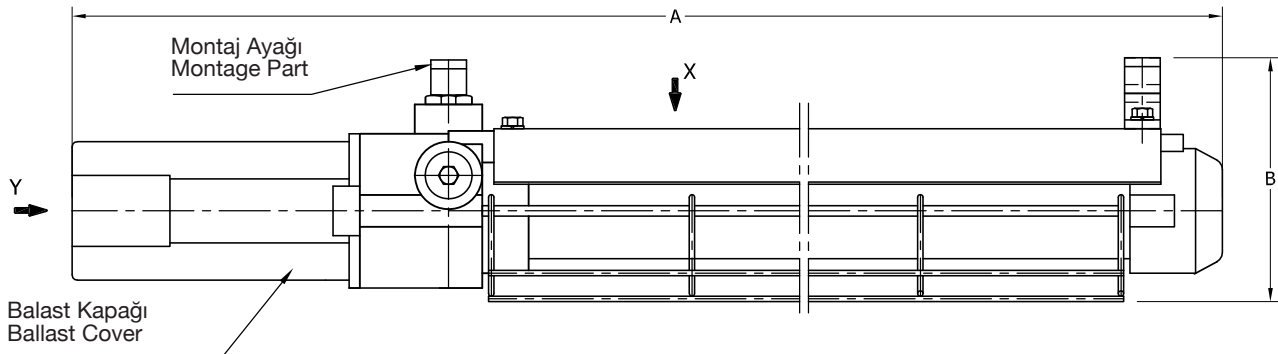
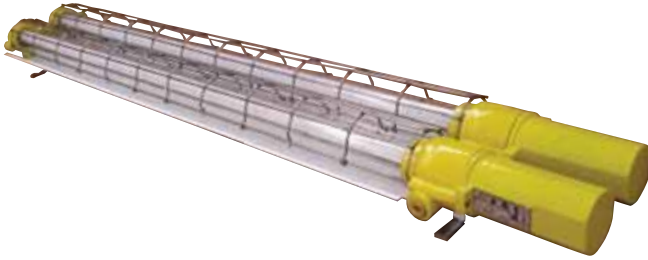
FLORESAN AYDINLATMA ARMATÜRLERİ

FLUORESCENT LIGHTING FIXTURES

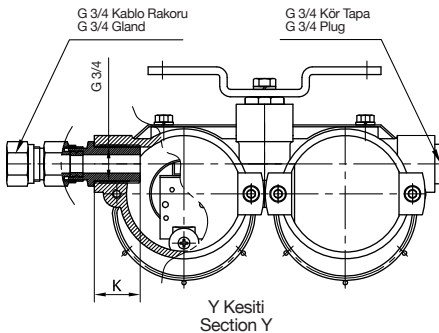
EVFR

EVFR.254-E

T5 Floresan / T5 Fluorescent
Elektronik Balastlı / Electronic Ballast
220V 50Hz



X Kesiti
Section X



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVFR.254-E	14.00	1460	147	237	1200	137	40	2x54	T5	7500	6000

Ölçüler mm'dir. / Dimensions in mm.

Floresan lamba dahil / Fluorescent tube included

1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı

Material: Aluminum ETIAL 140 with borosilicate glass

FLORESAN AYDINLATMA ARMATÜRLERİ

FLUORESCENT LIGHTING FIXTURES

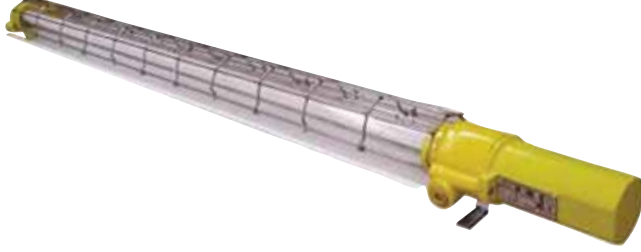
EVFR

Sınıflandırma / Classification
II 2G Ex d IIA-B T6 Gb / II 2D Ex tb IIIC T85°C Db IP6x
Standartlar / Standards
EN 60079-0 / EN 60079-1/ EN 60079-31
Sertifika No. / Certificate No.
TSE 14.31.35-EX / 174 - SIRA 11 ATEX 1093 X



EVFR.118-L / EVFR.136-L

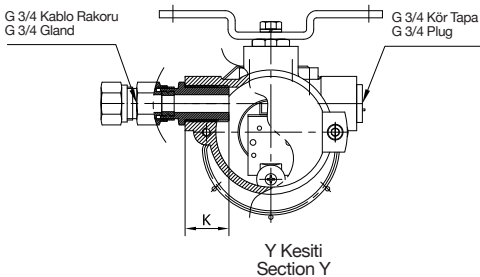
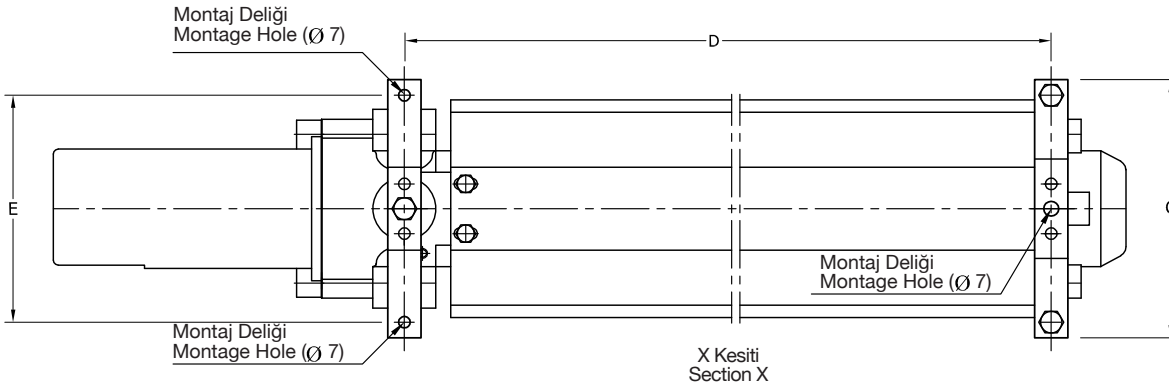
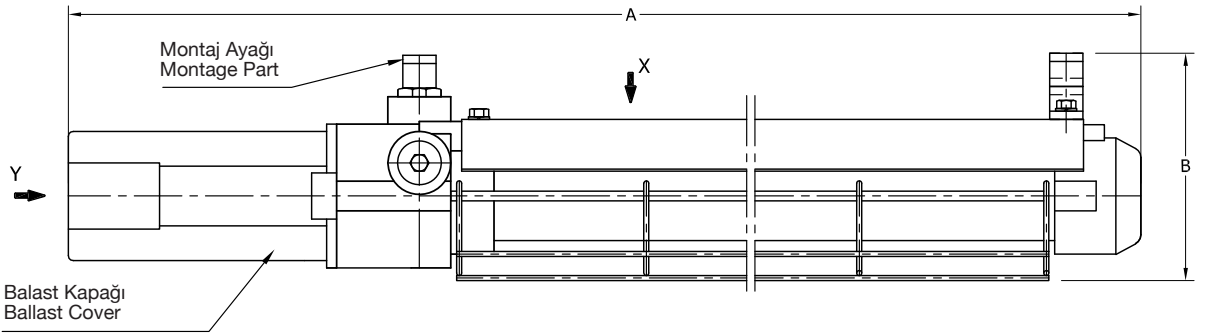
T8 Led Tüplü / T8 Led Tube
Elektronik Balastlı / Electronic Ballast
220V 50Hz



1200 mm



600 mm



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lumen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVFR.118-L	5.50	860	147	156	600	137	40	19.5	T8	2100	6000
EVFR.136-L	7.00	1460			1200			39	T8	4200	6000

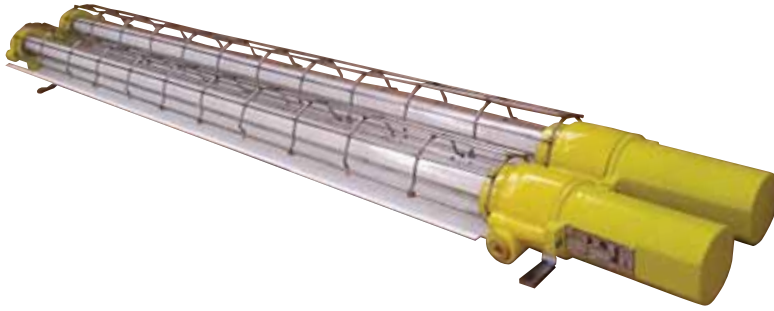
Ölçüler mm'dir. / Dimensions in mm.
Led tüp dahil / Led tube included
1 adet kör tapa (PLG) dahildir. / 1 plug included.
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı
Material: Aluminum ETIAL 140 with borosilicate glass

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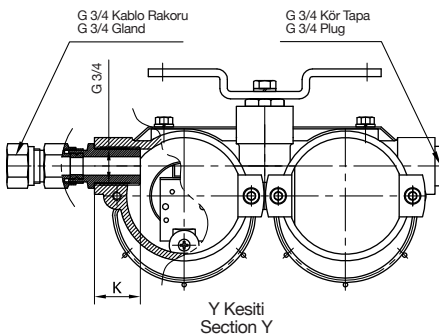
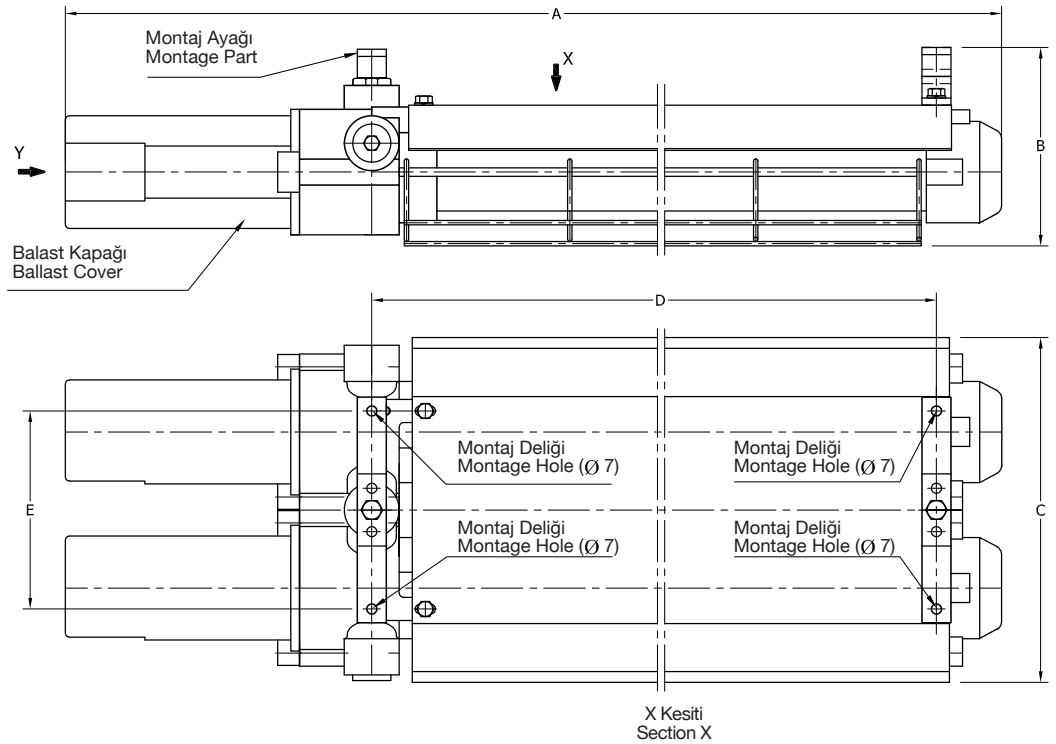
EVFR.218-L / EVFR.236-L

T8 Led Tüplü / T8 Led Tube
Elektronik Balastlı / Electronic Ballast
220V 50Hz



1200 mm

600 mm



Model	Ağırlık (kg) Weight	A	B	C	D	E	Kmax	Güç Wattage (W)	Duy Caps	Işık Akısı (lumen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVFR.218-L	12.00	860	147	237	600	137	40	2x19.5	T8	3800	6000
EVFR.236-L	14.00	1460			1200			2x39	T8	8000	6000

Ölçüler mm'dir. / Dimensions in mm.

Led tüp dahil / Led tube included

1 adet kör tapa (PLG) dahildir. / 1 plug included.

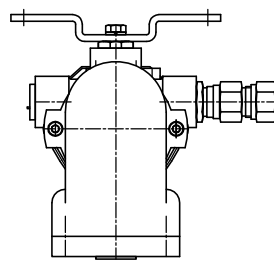
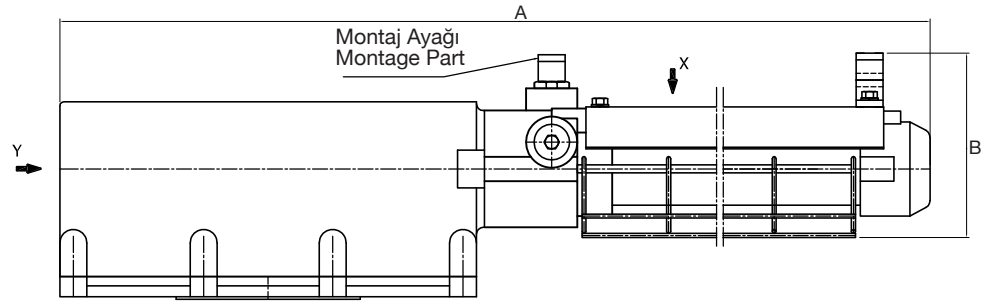
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı

Material: Aluminum ETIAL 140 with borosilicate glass

ACİL KİTLİ LED / FLORESAN AYDINLATMA ARMATÜRLERİ

EMERGENCY LED / FLUORESCENT LIGHTING FIXTURES WITH KIT

EVFR (KİTLİ)



SIDE - Y

SIDE - X

Model	Ağırlık (kg) Weight		A	B	C	D	E	Kmax	Güç Wattage (W)	Işık Akısı (lümen) Luminaus flux
EVFR.118-A1	7.00	Acilde 1 saat yanar / 1x1hr. emergency kit	1014			600			18	950
EVFR.118-S1	7.00	Acilde 1 saat yanmaya devam eder / 1x1hr. continuous light							18	1350
EVFR.118-S1L	7.00	Acilde 2-3 saat yanmaya devam eder (LED'li) / 2-3 hr. continuous light (with LED)							19.5	2100
EVFR.118-A1L	7.00	Acilde 2-3 saat yanar (LED'li) / 2-3 hr. emergency kit (with LED)							19.5	1470
EVFR.136-A1	13.00	Acilde 1 saat yanar / 1x1hr. emergency kit	1614	147	156	1200	137	40	36	1650
EVFR.136-S1	13.00	Acilde 1 saat yanmaya devam eder / 1x1hr. continuous light							36	2350
EVFR.136-S1L	13.00	Acilde 2-3 saat yanmaya devam eder (LED'li) / 2-3 hr. continuous light (with LED)							39	4200
EVFR.136-A1L	13.00	Acilde 2-3 saat yanar (LED'li) / 2-3 hr. emergency kit (with LED)							39	2940
EVFR.154-A1	21.00	Acilde 1 saat yanar / 1x1hr. emergency kit	1914			1500			54	2840
EVFR.154-S1	21.00	Acilde 1 saat yanmaya devam eder / 1x1hr. continuous light							54	4050

220V 50Hz

Ölçüler mm'dir. / Dimensions in mm.

Floresan lamba - Led tüp dahil / Fluorescent - Led tube included

1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

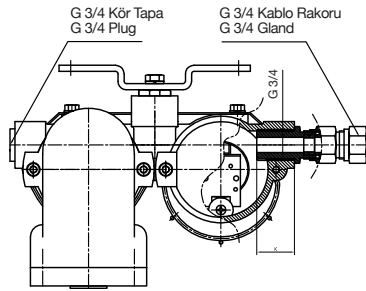
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ACİL KİTLİ LED / FLORESAN AYDINLATMA ARMATÜRLERİ

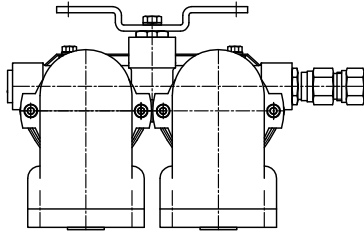
EMERGENCY LED / FLUORESCENT LIGHTING FIXTURES WITH KIT



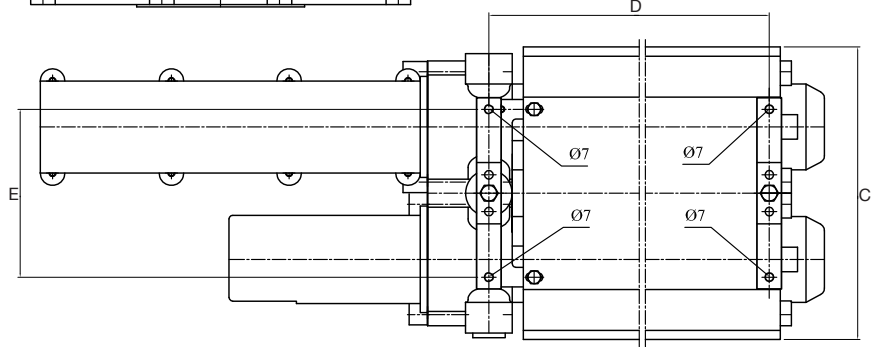
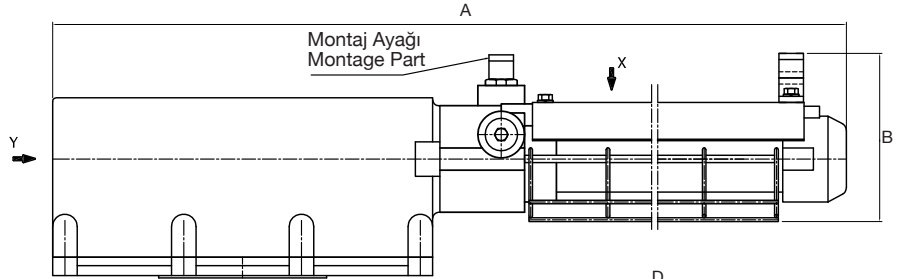
EVFR (KİTLİ)



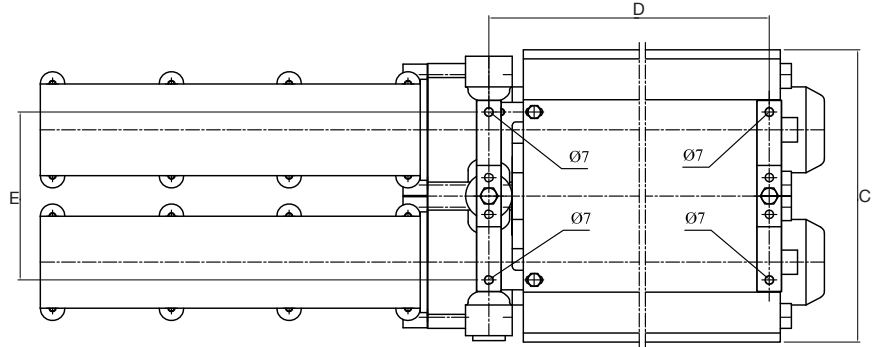
SIDE - Y



SIDE - Y



SIDE - X (EVFR.218-S1 / EVFR.236-S1)



SIDE - X (EVFR.218-A2 / EVFR.218-S2 / EVFR.236-A2 / EVFR.236-S2)

Model	Ağırlık (kg) Weight		A	B	C	D	E	Kmax	Güç Wattage (W)	Işık Akısı (lümen) Luminaus flux
EVFR.218-A2	11.00	İkisi acilde 1 saat yanar / 2x1hr. emergency kit	1014	147	237	600	137	40	2x18	1890
EVFR.218-A2L	11.00	İkisi acilde 2-3 saat yanar (LED) / 2x2 or 2x3 hr. emergency kit							2x19.5	2660
EVFR.218-S1	11.00	Teki acilde 1 saat yanmaya devam eder / 1x1 hr. continuous light							2x18	2700
EVFR.218-S1L	11.00	Teki acilde 2-3 saat yanmaya devam eder (LED) / 1x2 or 1x3 hr. continuous light (LED)							2x19.5	3800
EVFR.218-S2	11.00	İkisi acilde 1 saat yanmaya devam eder / 2x1hr. continuous light							2x19.5	3800
EVFR.218-S2L	11.00	İkisi acilde 2-3 saat yanmaya devam eder (LED) / 2x2 or 2x3 hr. continuous light (LED)							2x18	3800
EVFR.236-A2	26.00	İkisi acilde 1 saat yanar / 2x1hr. emergency kit	1614	147	237	1200	137	40	2x36	3290
EVFR.236-A2L	26.00	İkisi acilde 2-3 saat yanar (LED) / 2x2 or 2x3 hr. emergency kit							2x39	5600
EVFR.236-S1	26.00	Teki acilde 1 saat yanmaya devam eder / 1x1 hr. continuous light							2x36	4700
EVFR.236-S1L	26.00	Teki acilde 2-3 saat yanmaya devam eder (LED) / 1x2 or 1x3 hr. continuous light (LED)							2x39	8000
EVFR.236-S2	26.00	İkisi acilde 1 saat yanmaya devam eder / 2x1hr. continuous light							2x36	4700
EVFR.236-S2L	26.00	İkisi acilde 2-3 saat yanmaya devam eder (LED) / 2x2 or 2x3 hr. continuous light (LED)							2x39	8000
EVFR.254-A2	40.00	İkisi acilde 1 saat yanar / 2x1hr. emergency kit	1914	147	237	1500	137	40	2x54	5200
EVFR.254-S1	40.00	Teki acilde 1 saat yanmaya devam eder / 1x1 hr. continuous light							2x54	7500
EVFR.254-S2	40.00	İkisi acilde 1 saat yanmaya devam eder / 2x1hr. continuous light							2x54	7500

220V 50Hz

Ölçüler mm'dir. / Dimensions in mm.

Floresan lamba - Led tüp dahil / Fluorescent - Led tube included

1 adet kör tapa (PLG) dahildir. / 1 plug included.

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011

EN ISO/IEC 80079-34: 2011

Üretim Kalite Sistemi



AKKORTELLİ AYDINLATMA ARMATÜRLERİ

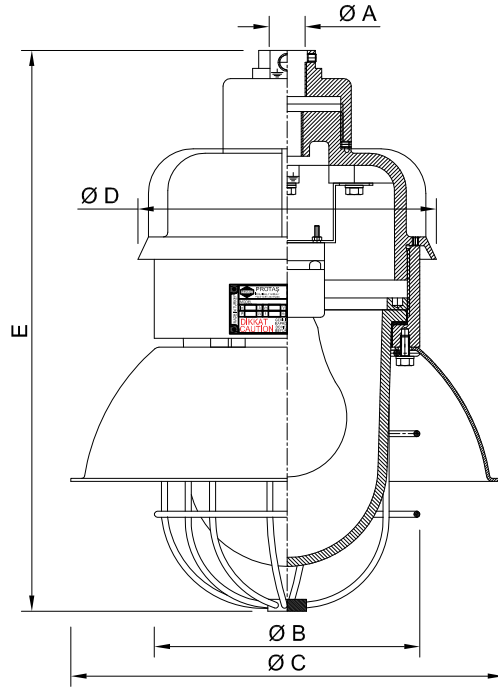
INCANDESCENT LIGHTING FIXTURES

EVA

Sınıflandırma / Classification
II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65
Standartlar / Standards
EN 60079-0 / EN 60079-1/EN 61241-0 / EN 61241-1
Sertifika No. / Certificate No.
FTZU 09 ATEX 0269X / TSE 14.31.35-EX174



ASKILI BORU TİPİ / CONDUIT MOUNTED



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)					
Reflektörsüz Without Reflector	Reflektörlü With Reflector	Güç Wattage				Ø A		Ø B	Ø C	Ø D	E
						NPT	METRIC				
EVA.100	EVAR.100	100 W	2.55	Ø14	E27	1/2"	M20x1.5	130	270	152	292
EVA.200	EVAR.200	200 W	3.90	Ø19	E27	3/4"	M25x1.5	178	290	198	376
EVA.300	EVAR.300	300 W	7.00	Ø19	E40	1"	M32x1.5	265	420	283	511

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVA.100	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVA.200	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVA.300	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVA.100 ürün girişleri 3/4" veya M25x1.5 olarak üretilebilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVA.100

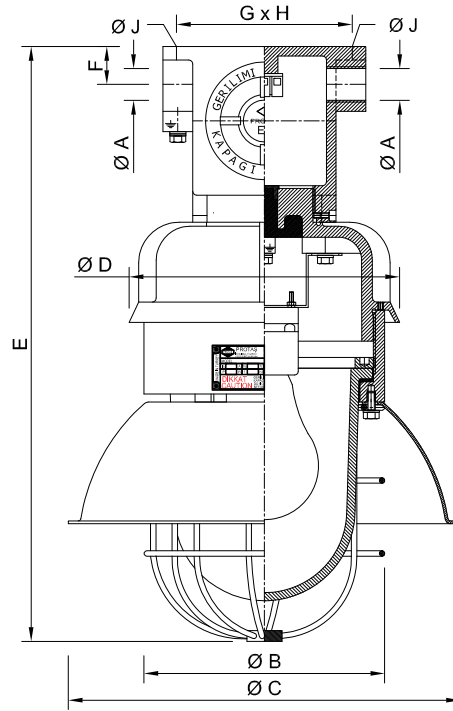
Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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CEILING MOUNTED (WITH JUNCTION BOX) / BUATLI TAVAN TİPİ



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)									
Reflektörsüz without Reflector	Reflektörlü with Reflector	Güç Wattage				Ø A		Ø B	Ø C	Ø D	E	F	G	H	Ø J
						NPT	METRIC								
EVB.100	EVBR.100	100 W	3.25	Ø 14	E27	2 x 1/2"	2 x M20x1.5	130	270	152	337	20	54	94	7
EVB.200	EVBR.200	200 W	6.00	Ø 19	E27	2 x 3/4"	2 x M25x1.5	178	290	198	440	28	75	130	9
EVB.300	EVBR.300	300 W	8.25	Ø 19	E40	2 x 3/4"	2 x M25x1.5	265	420	283	568	28	75	130	9

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVB.100	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVB.200	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVB.300	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVB.100 ürün girişleri 3/4" veya M25x1.5 olarak üretilebilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVB.100

Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

AKKORTELLİ AYDINLATMA ARMATÜRLERİ

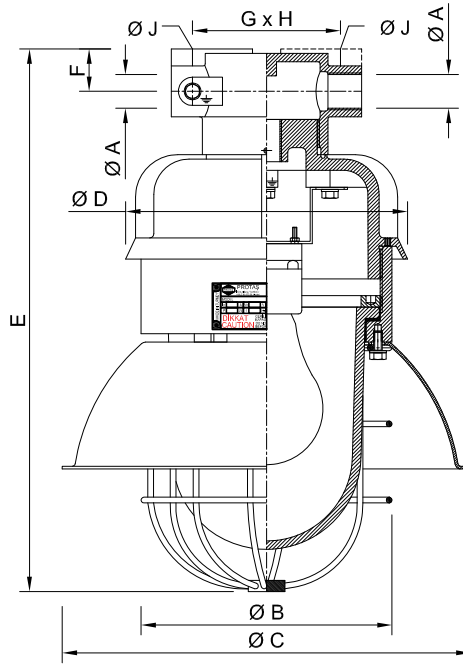
INCANDESCENT LIGHTING FIXTURES

EVC

Sınıflandırma / Classification
II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65
Standartlar / Standards
EN 60079-0 / EN 60079-1/EN 61241-0 / EN 61241-1
Sertifika No. / Certificate No.
FTZU 09 ATEX 0269X / TSE 14.31.35-EX174



TAVAN TİPİ / CEILING MOUNTED



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)									
Reflektörsüz Without Reflector	Reflektörlü With Reflector	Güç Wattage				Ø A		Ø B	Ø C	Ø D	E	F	G	H	Ø J
						NPT	METRIC								
EVC.100	EVCR.100	100 W	3.00	Ø 14	E27	2 x 1/2"	2 x M20x1.5	130	270	152	295	15	45	70	7
EVC.200	EVCR.200	200 W	5.20	Ø 19	E27	2 x 3/4"	2 x M25x1.5	178	290	198	385	30	65	105	9
EVC.300	EVCR.300	300 W	7.30	Ø 19	E40	2 x 3/4"	2 x M25x1.5	265	420	283	513	30	65	105	9

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVC.100	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVC.200	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVC.300	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVC.100 ürün girişleri 3/4" veya M25x1.5 olarak üretilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVC.100

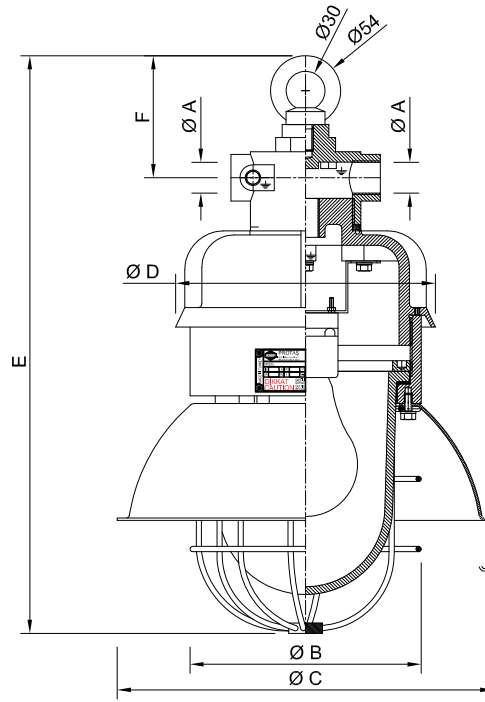
Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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WITH HANGER RING / ASKI HALKALI TİP



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)						
Reflektörsüz Without Reflector	Reflektörlü With Reflector	Güç Wattage				Ø A		Ø B	Ø C	Ø D	E	F
						NPT	METRIC					
EVD.100	EVDR.100	100 W	2.50	Ø 14	E27	2 x 1/2"	2 x M20x1.5	130	270	152	367	90
EVD.200	EVDR.200	200 W	4.90	Ø 19	E27	2 x 3/4"	2 x M25x1.5	178	290	198	443	94
EVD.300	EVDR.300	300 W	8.20	Ø 19	E40	2 x 3/4"	2 x M25x1.5	265	420	283	571	94

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVD.100	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVD.200	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVD.300	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVD.100 ürün girişleri 3/4" veya M25x1.5 olarak üretilebilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVD.100

Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

AKKORTELLİ AYDINLATMA ARMATÜRLERİ

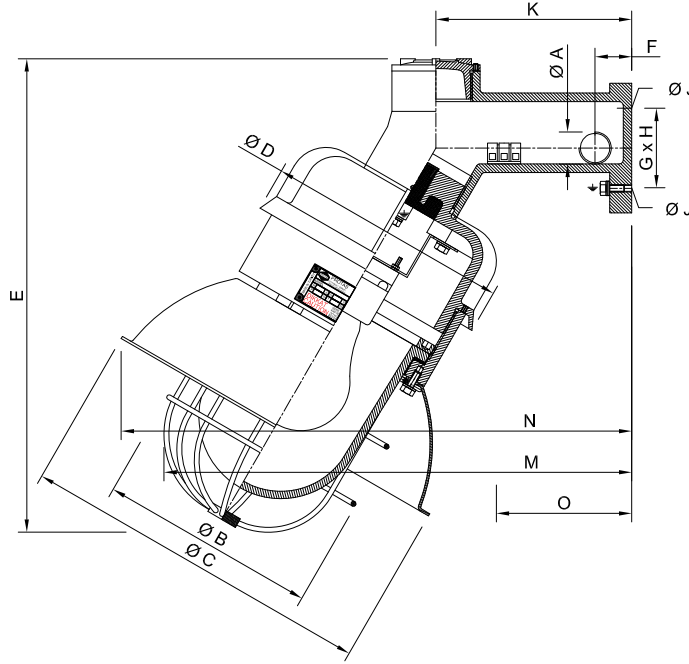
INCANDESCENT LIGHTING FIXTURES

EVJ / 45°

Sınıflandırma / Classification
II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65
Standartlar / Standards
EN 60079-0 / EN 60079-1/EN 61241-0 / EN 61241-1
Sertifika No. / Certificate No.
FTZU 09 ATEX 0269X / TSE 14.31.35-EX174



DUVAR TİPİ / WALL MOUNTED



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)														
Reflektörsüz without Reflector	Reflektörlü uith Reflector	Güç wattage				ØA		ØB	ØC	ØD	E	F	G	H	ØJ	K	M	N	O	
						NPT	METRIC													
EVJ.100/45°	EVJR.100/45°	100 W	3.25	Ø 14	E27	2 x 1/2"	2 x M20x1.5	130	270	152	295	30	80	57	7	120	290	343	86	
EVJ.200/45°	EVJR.200/45°	200 W	6.00	Ø 19	E27	2 x 3/4"	2 x M25x1.5	178	290	198	387	30	125	65	9	160	387	417	111	
EVJ.300/45°	EVJR.300/45°	300 W	8.25	Ø 19	E40	2 x 3/4"	2 x M25x1.5	265	420	283	512	30	125	65	9	160	479	515	80	

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVJ.100/45°	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVJ.200/45°	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVJ.300/45°	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVJ.100/45° ürün girişleri 3/4" veya M25x1.5 olarak üretilebilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVJ.100

Ampul dahil değildir / Bulb is excluded

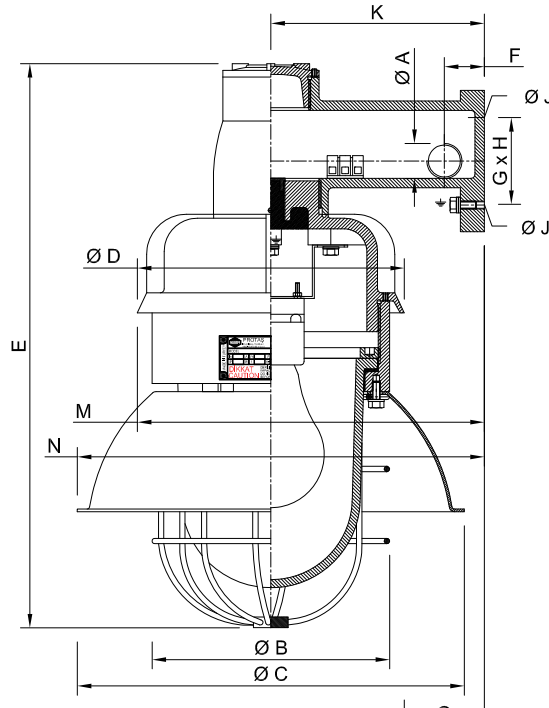
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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EVJ/90°

WALL MOUNTED / DUVAR TİPİ



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)														
Reflektörsüz without Reflector	Reflektörlü with Reflector	Güç Wattage				ØA		ØB	ØC	ØD	E	F	G	H	ØJ	K	M	N	O	
						NPT	METRIC													
EVJ.100/90°	EVJR.100/90°	100 W	3.25	Ø 14	E27	2 x 1/2"	2 x M20x1.5	130	270	152	327	30	80	57	7	150	226	285	74	
EVJ.200/90°	EVJR.200/90°	200 W	6.00	Ø 19	E27	2 x 3/4"	2 x M25x1.5	178	290	198	423	30	125	65	9	160	260	305	60	
EVJ.300/90°	-	300 W	7.25	Ø 19	E40	2 x 3/4"	2 x M25x1.5	265	-	283	549	30	125	65	9	160	302	-	16	

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVJ.100/90°	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700
EVJ.200/90°	Akkor Lamba / Incandescent Lamp	200	E27	3000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	42	E27	3110	6500
	Led Lamba / LED Lamp	13.5	E27	1521	2700
EVJ.300/90°	Akkor Lamba / Incandescent Lamp	300	E40	4000	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	60	E27	4310	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	75	E40	5550	6500

EVJ.100/90° ürün girişleri 3/4" veya M25x1.5 olarak üretilebilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 fon EVJ.100

Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

AKKORTELLİ AYDINLATMA ARMATÜRLERİ

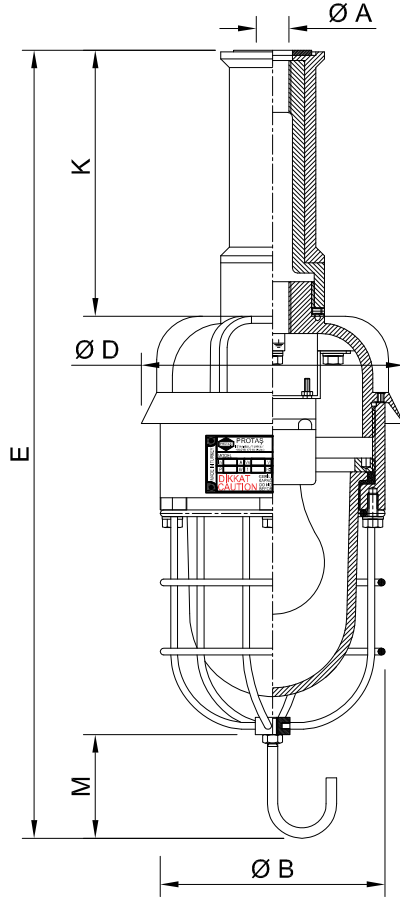
INCANDESCENT LIGHTING FIXTURES

EVP

Sınıflandırma / Classification
II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65
Standartlar / Standards
EN 60079-0 / EN 60079-1/EN 61241-0 / EN 61241-1
Sertifika No. / Certificate No.
FTZU 09 ATEX 0269X / TSE 14.31.35-EX174



SEYYAR / PORTABLE



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Ölçüler / Dimensions (mm)						
Reflektörsüz without Reflector	Reflektörlü with Reflector	Güç Wattage				Ø A		Ø B	Ø D	E	K	M
						NPT	METRIC					
EVP.100	-	100 W	3.25	Ø 14	E27	1/2"	M20x1.5	130	152	456	154	60

Model	Lamba Tipi/Lamp Type	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
EVP.100	Akkor Lamba / Incandescent Lamp	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	23	E27	1505	2700
	Led Lamba / LED Lamp	9	E27	806	2700

EVP.100 ürün girişleri 3/4" veya M25x1.5 olarak üretilir / Cable connection inputs may be manufactured 3/4" or metric 25x1.5 for EVP.100
Ampul ve rakor dahil değildir / Bulb and cable gland is not excluded
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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Sınıflandırma / Classification

II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX / 174 - FTZU 09 ATEX 0269X

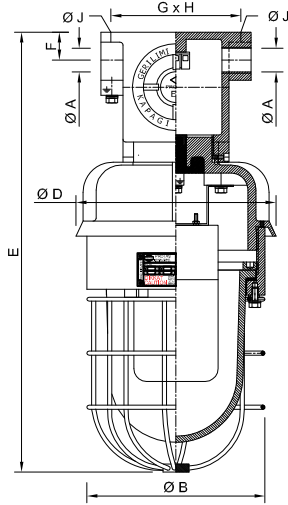
İKAZ ARMATÜRLERİ

WARNING BEACONS

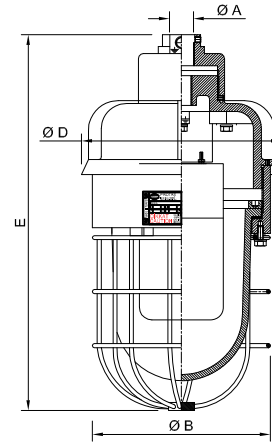
EV-LF, -CR



EVB-LF, -CR



EVA-LF, -CR



Model		Ağırlık (kg) Weight	Renk Color	Max. kablo çapı Max. cable diameter	Ölçüler / Dimensions (mm)								
Seri	Seçenek / Options				Ø A		Ø B	Ø D	E	F	G	H	Ø J
					NPT	METRIC							
EVA.100	-LF12 12V AC/DC LED Flaşör / Flashing	2.55	/K Kırmızı Red	Ø 14	1/2"	M20x1.5	130	152	292	-	-	-	-
EVB.100	-LF24 24V AC/DC LED Flaşör / Flashing	3.25	/M Mavi Blue				130	152	337	20	54	94	7
EVA.200	-CR12 12V AC/DC Çakar/Strobe	3.90	/S Sarı Yellow	Ø 19	3/4"	M25x1.5	178	198	376	-	-	-	-
EVB.200	-CR24 24V AC/DC Çakar/Strobe	6.00	/Y Yeşil Green				178	198	440	28	75	130	9

Flaşör ve Çakar dahildir / Flashing and Strobe included

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011

Üretim Kalite Sistemi



33

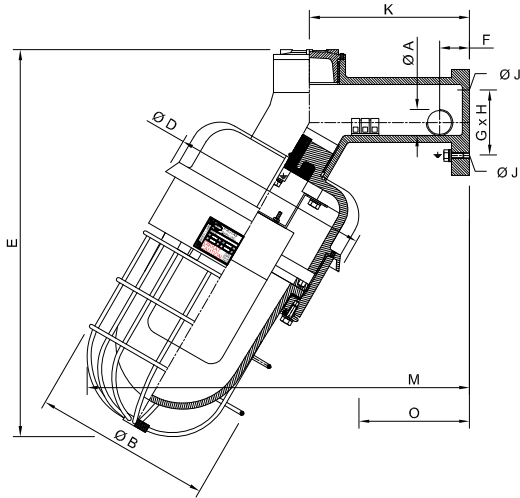
İKAZ ARMATÜRLERİ WARNING BEACONS

EV-LF, -CR

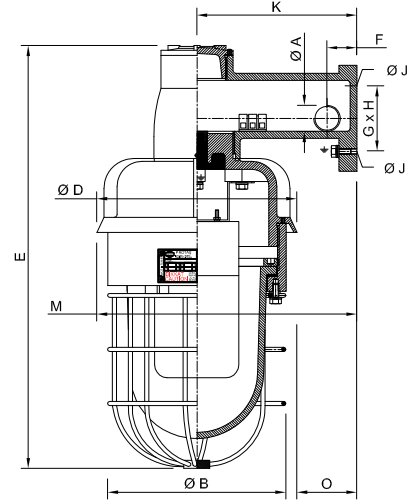
Sınıflandırma / Classification
II 2G Ex d IIB T4 / II 2D Ex tD A21 Tmax..... IP65
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
TSE 14.31.35-EX / 174 - FTZU 09 ATEX 0269X



EVJ / 45° - LF, -CR



EVJ / 90° - LF, -CR



Model		Ağırlık (kg) Weight	Renk Color	Max. kablo çapı Max. cable diameter	Ölçüler / Dimensions (mm)												
Seri	Seçenek / Options				Ø A		Ø B	Ø D	E	F	G	H	Ø J	H	H	H	
					NPT	METRIC											
EVJ.100/45°	-LF12 12V AC/DC LED Flaşör / Flashing	3.25	/K Kırmızı Red	Ø 14	2 x 1/2"	2 x M20x1.5	130	152	298	30	80	57	7	120	290	86	
EVJ.100/90°	-LF24 24V AC/DC LED Flaşör / Flashing	3.25	/M Mavi Blue				130	152	327	30	80	57	7	150	226	74	
EVJ.200/45°	-CR12 12V AC/DC Çakar/Strobe	6.00	/S Sarı Yellow	Ø 19	2 x 3/4"	2 x M25x1.5	178	198	387	30	125	65	9	160	387	111	
EVJ.200/90°	-CR24 24V AC/DC Çakar/Strobe	6.00	/Y Yeşil Green				178	198	423	30	125	65	9	160	260	60	

Flaşör ve Çakar dahildir / Flashing and Strobe included

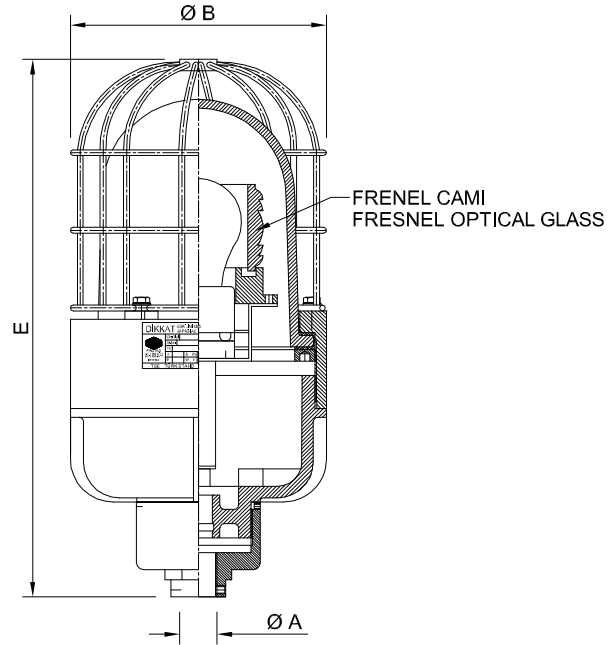
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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SABİT İKAZ ARMATÜRLERİ

WARNING BEACONS

EVOLÉ



Model		Güç Wattage	Renk Color	Max. kablo çapı Max. cable diameter	Ölçüler / Dimensions (mm)				
Seri	Seçenek / Options				ØA		ØB	ØD	E
					NPT	METRIC			
EVOLÉ.1	Fresnel camlı ikaz armatürü Fresnel optical glass	100W	/K Kırmızı Red /M Mavi Blue /S Sarı Yellow /Y Yeşil Green /B Beyaz White	Ø 19	3/4"	M25x1.5	178	198	376

Ortalama ağırlık 6.00 kg / Approximate weight 6.00 kg

Ampul dahildir. / Bulb is included

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

ALARM SETİ WARNING SET EVSR

Sınıflandırma / Classification

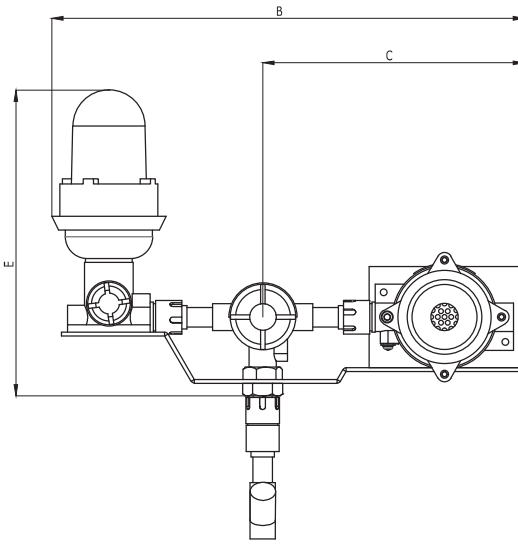
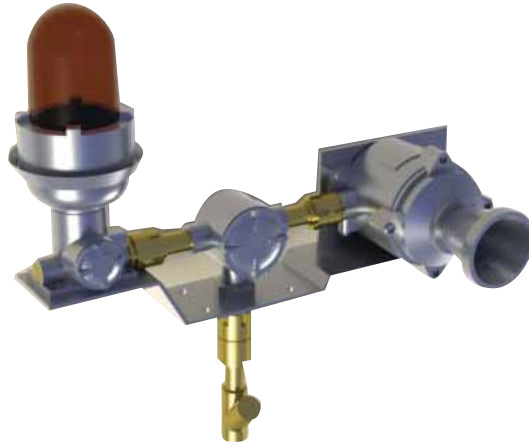
Ex d IIB T6 IP 65

Standartlar / Standards

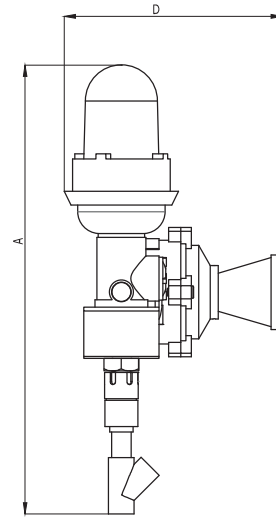
EN 60079-0 / EN 60079 - 1 / EN 60079 - 31



EVSR.1-220 EX-PROOF ALARM SETİ / EX-PROOF WARNING SET



3/4" (M25x1.5)



MODEL	A	B	C	D	E
EVSR.1-220	596	628	348	290	406

Ortalama ağırlık 8.50 kg / Approximate weight 8.50 kg

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı

Material: Aluminum ETIAL 140 with borosilicate glass

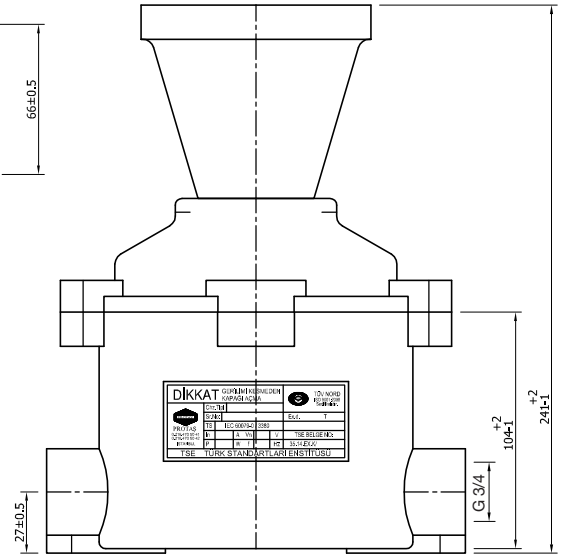
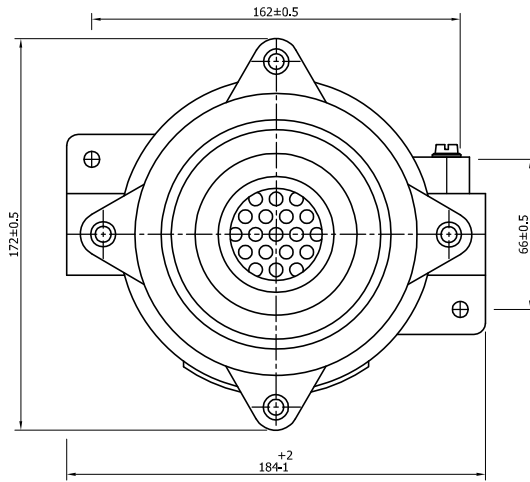
SİREN, KORNA

SIREN, HORN



ELEKTRONİK SİREN / ELECTRONIC SIREN **ESR**

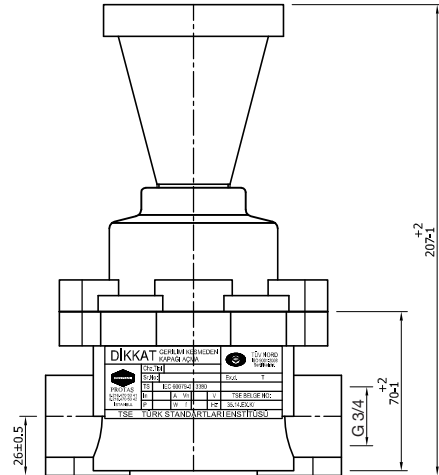
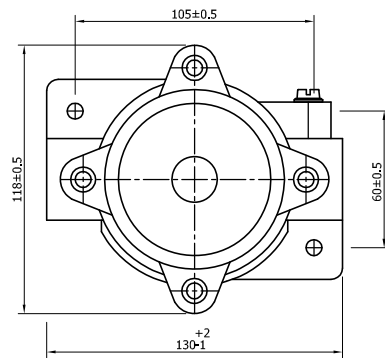
220Vac
12V AC-DC
24V AC-DC
90 dB
Ağırlık/Weight: 3.14 kg



Malzeme/Material: Alüminyum ETIAL 140

MEKANİK KORNA / MECHANICAL HORN **MKR**

220Vac
90 dB
Ağırlık/Weight: 2.18 kg



Malzeme/Material: Alüminyum ETIAL 140

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BALASTLI AYDINLATMA ARMATÜRLERİ

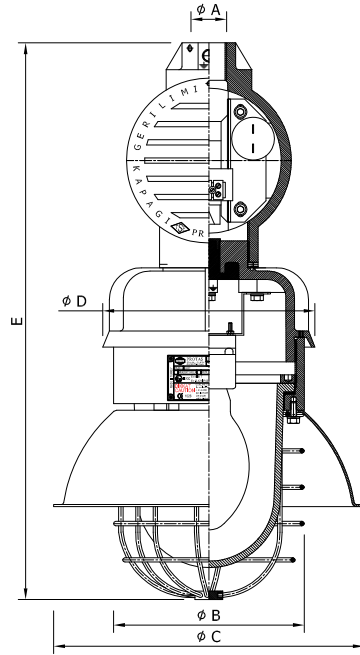
BALLASTED LIGHTING FIXTURES

EVATB

Sınıflandırma / Classification
II 2G Ex d IIB T4 Gb / II 2D Ex tb IIIC T 130°C Db
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
TSE 14.31.35-EX / 174 - FTZU 12 ATEX 0064X



ASKILI BORU TİPİ / CONDUIT MOUNTED



Model			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Kondansatör Capacitor µF	Ölçüler Dimensions (mm)					
Reflektörsüz* without Reflector	Reflektörlü* with Reflector	Güç Wattage					ØA		ØB	ØC	ØD	E
							NPT	METRIC				
EVATB.125-CK	EVATBR.125-CK	125W	8.20	Ø19	E27	10	1"	M32x1.5	178	290	198	520
EVATB.150-SK	EVATBR.150-SK	150W	9.00	Ø19	E40-E27	20			178	290	198	520
EVATB.250-CK	EVATBR.250-CK	250W	17.50	Ø19	E40	18			265	420	283	648
EVATB.250-MK	EVATBR.250-MK	250W	17.50	Ø19	E40	32			265	420	283	648
EVATB.250-SK	EVATBR.250-SK	250W	17.50	Ø19	E40	32			265	420	283	648
EVATB.400-CK	EVATBR.400-CK	400W	20.50	Ø19	E40	25			265	420	283	653

Model		Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
Reflektörsüz* without Reflector	Reflektörlü* with Reflector				
EVATB.125-CK	EVATBR.125-CK	125	27	6200	4200
EVATB.150-SK	EVATBR.150-SK	150	E40	18000	1950
EVATB.250-CK	EVATBR.250-CK	250	E40	12700	4100
EVATB.250-MK	EVATBR.250-MK	250	E40	20500	4500
EVATB.250-SK	EVATBR.250-SK	250	E40	33300	1950
EVATB.400-CK	EVATBR.400-CK	400	E40	22000	4200

C: Civa buharlı (Beyaz ışık) / Mercury vapour (white light), S: Sodyum buharlı (Gün ışığı) / Sodium vapour (Daylight), M: Metal halide (Sarı ışık) / Metal halide (Daylight)
* R (Reflektör) ve K (Kondansatör) opsiyoneldir. / R (Reflector) and K (Capacitor) is optional.

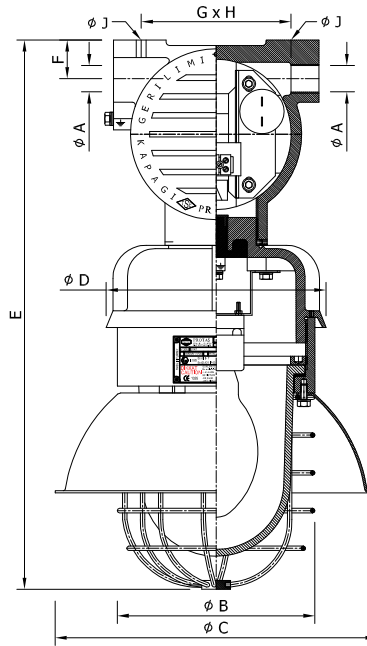
Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

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CEILING MOUNTED / TAVAN TİPİ



MODEL			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Kondansatör Capacitor µF	Ölçüler / Dimensions (mm)										
Reflektörsüz* without Reflector	Reflektörlü* with Reflector	Güç Wattage					Ø A		Ø B	Ø C	Ø D	E	F	G	H	Ø J	
							NPT	METRIC									
EVATF.125-CK	EVATFR.125-CK	125W	8.20	Ø19	E27	10	2 x 3/4"	2 x M25x1.5	178	290	198	495	35	135	65	9	
EVATF.150-SK	EVATFR.150-SK	150W	9.00	Ø19	E40-E27	20			178	290	198	495	35	135	65	9	
EVATF.250-CK	EVATFR.250-CK	250W	17.50	Ø19	E40	18			265	420	283	623	35	135	65	9	
EVATF.250-MK	EVATFR.250-MK	250W	17.50	Ø19	E40	32			265	420	283	623	35	135	65	9	
EVATF.250-SK	EVATFR.250-SK	250W	17.50	Ø19	E40	32			265	420	283	623	35	135	65	9	
EVATF.400-CK	EVATFR.400-CK	400W	20.50	Ø19	E40	25			265	420	283	628	35	135	65	9	
EVATF.400-MK	EVATFR.400-MK	400W	20.50	Ø19	E40	45			265	420	283	690	52	227	105	13	
EVATF.400-SK	EVATFR.400-SK	400W	20.50	Ø19	E40	45			265	420	283	690	52	227	105	13	

Model		Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
Reflektörsüz* without Reflector	Reflektörlü* with Reflector				
EVATF.125-CK	EVATFR.125-CK	125W	27	6200	4200
EVATF.150-SK	EVATFR.150-SK	150W	E40	18000	1950
EVATF.250-CK	EVATFR.250-CK	250W	E40	12700	4100
EVATF.250-MK	EVATFR.250-MK	250W	E40	20500	4500
EVATF.250-SK	EVATFR.250-SK	250W	E40	33300	1950
EVATF.400-CK	EVATFR.400-CK	400W	E40	22000	4200
EVATF.400-MK	EVATFR.400-MK	400W	E40	32000	4500
EVATF.400-SK	EVATFR.400-SK	400W	E40	56000	1950

C: Civa buharlı (Beyaz ışık) / Mercury vapour (white light), S: Sodyum buharlı (Gün ışığı) / Sodium vapour (Daylight), M: Metal halide (Sarı ışık) / Metal halide (Daylight)

* R (Reflektör) ve K (Kondansatör) opsiyoneldir. / R (Reflector) and K (Capacitor) is optional.

Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

BALASTLI AYDINLATMA ARMATÜRLERİ

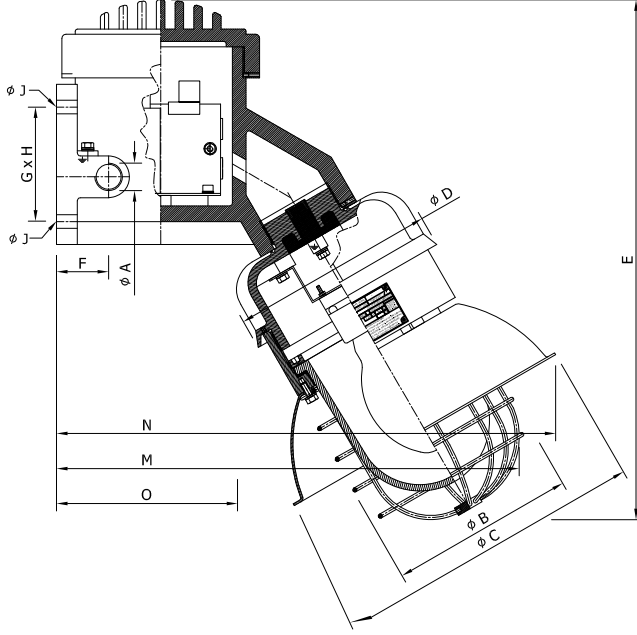
BALLASTED LIGHTING FIXTURES

EVATW

Sınıflandırma / Classification
II 2G Ex d IIB T4 Gb / II 2D Ex tb IIIC T 130°C Db
Standartlar / Standards
EN 60079-0 / EN 60079-1 / EN 60079-31
Sertifika No. / Certificate No.
TSE 14.31.35-EX / 174 - FTZU 12 ATEX 0064X



DUVAR TİPİ / WALL MOUNTED



MODEL			Ağırlık (kg) Weight	Max. kablo çapı Max. cable diameter	Duy Tipi Caps	Kondansatör Capacitor µF	Ölçüler / Dimensions (mm)												
Reflektörsüz* without Reflector	Reflektörlü* with Reflector	Güç Wattage					ØA		ØB	ØC	ØD	E	F	G	H	ØJ	M	N	O
							NPT	METRIC											
EVATW.125-CK	EVATWR.125-CK	125W	8.20	Ø19	E27	10	2 x 3/4"	2 x M25x1.5	178	290	198	499	50	200	110	13	449	480	173
EVATW.150-SK	EVATWR.150-SK	150W	9.00	Ø19	E40	20			178	290	198	499	50	200	110	13	449	480	173
EVATW.250-CK	EVATWR.250-CK	250W	17.50	Ø19	E40	18			265	420	283	624	50	200	110	13	541	577	143
EVATW.250-MK	EVATWR.250-MK	250W	17.50	Ø19	E40	32			265	420	283	657	50	200	110	13	541	577	143
EVATW.250-SK	EVATWR.250-SK	250W	17.50	Ø19	E40	32			265	420	283	657	50	200	110	13	541	577	143
EVATW.400-CK	EVATWR.400-CK	400W	20.50	Ø19	E40	25			265	420	283	662	50	200	110	13	544	580	144
EVATW.400-MK	EVATWR.400-MK	400W	20.50	Ø19	E40	45			265	420	283	679	60	210	143	13	590	626	190
EVATW.400-SK	EVATWR.400-SK	400W	20.50	Ø19	E40	45			265	420	283	679	60	210	143	13	590	626	190

Model		Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
Reflektörsüz* without Reflector	Reflektörlü* with Reflector				
EVATW.125-CK	EVATWR.125-CK	125W	27	6200	4200
EVATW.150-SK	EVATWR.150-SK	150W	E40	18000	1950
EVATW.250-CK	EVATWR.250-CK	250W	E40	12700	4100
EVATW.250-MK	EVATWR.250-MK	250W	E40	20500	4500
EVATW.250-SK	EVATWR.250-SK	250W	E40	33300	1950
EVATW.400-CK	EVATWR.400-CK	400W	E40	22000	4200
EVATW.400-MK	EVATWR.400-MK	400W	E40	32000	4500
EVATW.400-SK	EVATWR.400-SK	400W	E40	56000	1950

C: Civa buharlı (Beyaz ışık) / Mercury vapour (white light), S: Sodyum buharlı (Gün ışığı) / Sodium vapour (Daylight), M: Metal halide (Sarı ışık) / Metal halide (Daylight)

* R (Reflektör) ve K (Kondansatör) opsiyoneldir. / R (Reflector) and K (Capacitor) is optional.

Ampul dahil değildir / Bulb is excluded

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

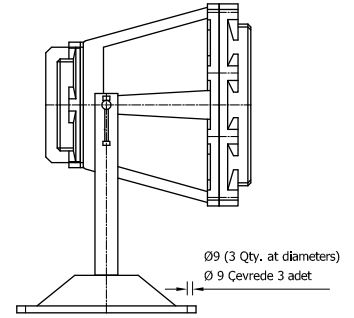
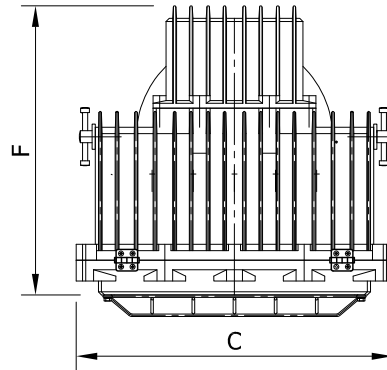
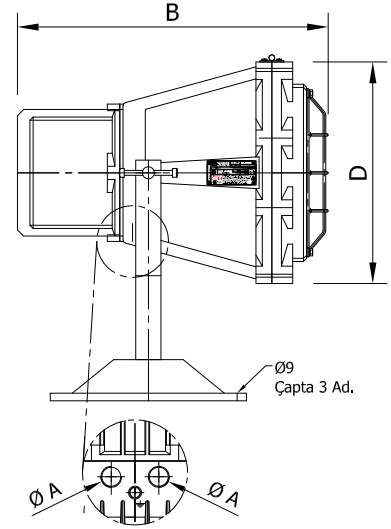
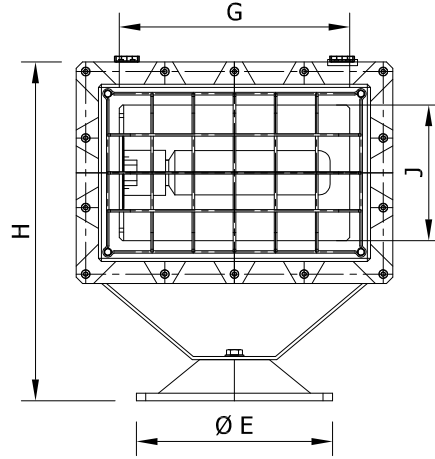
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40

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

PRJE.500-H (Halojenli / Halogen)
PRJE.1000-H (Halojenli / Halogen)

MODEL	Güç Wattage	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.	Ağırlık (kg) Weight	Kapasitör Capacitor µF	Duy Caps	Ölçüler / Dimensions (mm)										Brüt Hacim (cm³) Volume
							Ø A		B	C	D	Ø E	F	G	H	J	
							NPT	METRIC									
PRJE.250 - CK	250W	12700	4100	30.00	18	E40	3/4"	M25x1.5	414	430	300	240	380	304	450	174	12495 + 4380
PRJE.250 - MK	250W	20500	4500	30.00	32	E40			414	430	300	240	380	304	450	174	12495 + 4380
PRJE.250 - SK	250W	33300	1950	30.00	32	E40			414	430	300	240	380	304	450	174	12495 + 4380
PRJE.250 - LED	100W max	13600	6000	30.00	-	-			389	500	350	350	355	364	535	214	21150 + 2304
PRJE.400 - CK	400W	22000	4200	40.00	25	E40			491	500	350	350	457	364	535	214	21150 + 5565
PRJE.400 - MK	400W	32000	4500	40.00	45	E40			491	500	350	350	457	364	535	214	21150 + 5565
PRJE.400 - SK	400W	56000	1950	40.00	45	E40			491	500	350	350	457	364	535	214	21150 + 5565
PRJE.500 - H	500W	-	-	35.00	NA	E40			389	500	350	350	355	364	535	214	21150 + 2304
PRJE.1000 - H	1000W	-	-	35.00	NA	E40			389	500	350	350	355	364	535	214	21150 + 2304

C: Civa buharlı (Beyaz ışık) / Mercury vapour (white light), S: Sodyum buharlı (Gün ışığı) / Sodium vapour (Daylight), M: Metal halide (Sarı ışık) / Metal halide (Daylight)

K (Kondansatör) opsiyoneldir. / K (Capacitor) is optional.

Ampul dahil değildir / Bulb is excluded

Kablo rakoru ve kör tapa dahildir / Cable gland and plug included

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı / Material: Aluminum ETIAL 140 with borosilicate glass

ACİL ÇIKIŞ ARMATÜRÜ

EMERGENCY EXIT LIGHT FIXTURE

EXIT

Sınıflandırma / Classification

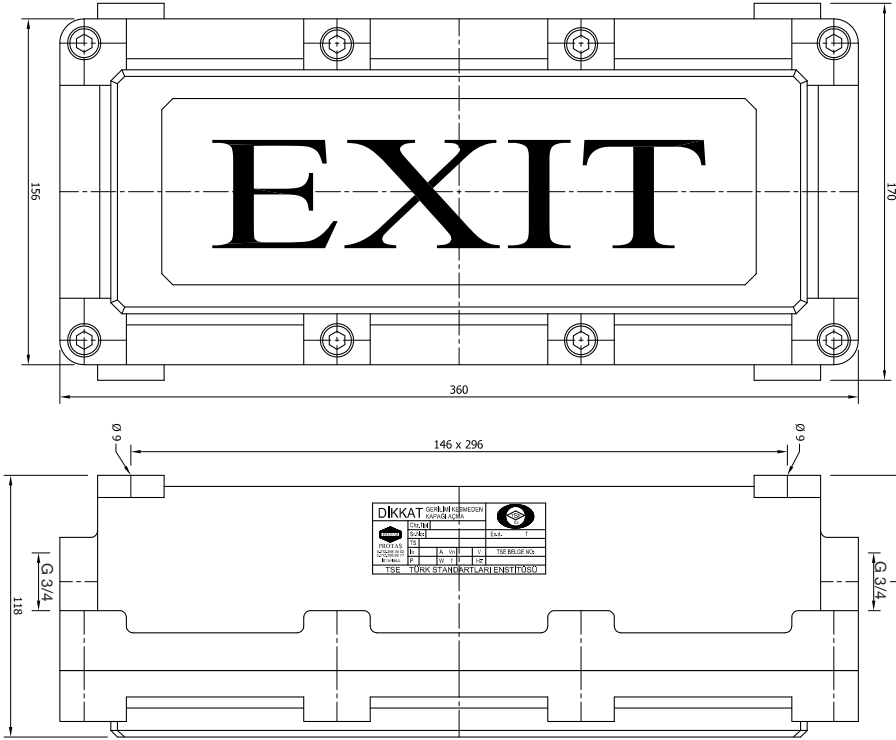
Ex d IIB T6 IP 55

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX / 174



GÖRSEL SEÇENEKLER / VERSIONS

Talep üzerine farklı versiyonlar yapılabilir / More versions may be available upon request



(1)

ZEMİN RENGİ : KIRMIZI
YAZI RENGİ: BEYAZ



(2)

ZEMİN RENGİ : YEŞİL
YAZI RENGİ: BEYAZ



(3)

ZEMİN RENGİ : YEŞİL
YAZI RENGİ: BEYAZ



(4)

ZEMİN RENGİ : YEŞİL
FİGÜR RENGİ: BEYAZ



(5)

ZEMİN RENGİ : YEŞİL
FİGÜR RENGİ: BEYAZ



(6)

ZEMİN RENGİ : YEŞİL
FİGÜR RENGİ: BEYAZ



(7)

ZEMİN RENGİ : YEŞİL
FİGÜR RENGİ: BEYAZ

Model	Tip / Type	Işık Akısı (lümen) Luminaus flux	Güç Wattage (W)
EXIT.01-F	Floresan / Fluorescent	200	8
EXIT.01-LT	LED Tüp / LED Tube	600	9

220 Volt AC 3 saat / 2 hours

Ortalama ağırlık / Approximate weight: 7.15 kg

Malzeme: Alüminyum ETIAL 140 Borosilikat camlı

Material: Aluminum ETIAL 140 with borosilicate glass

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Sınıflandırma / Classification

Ex d IIB T6 IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX / 174 / TSE 14.31.35-EX / 177

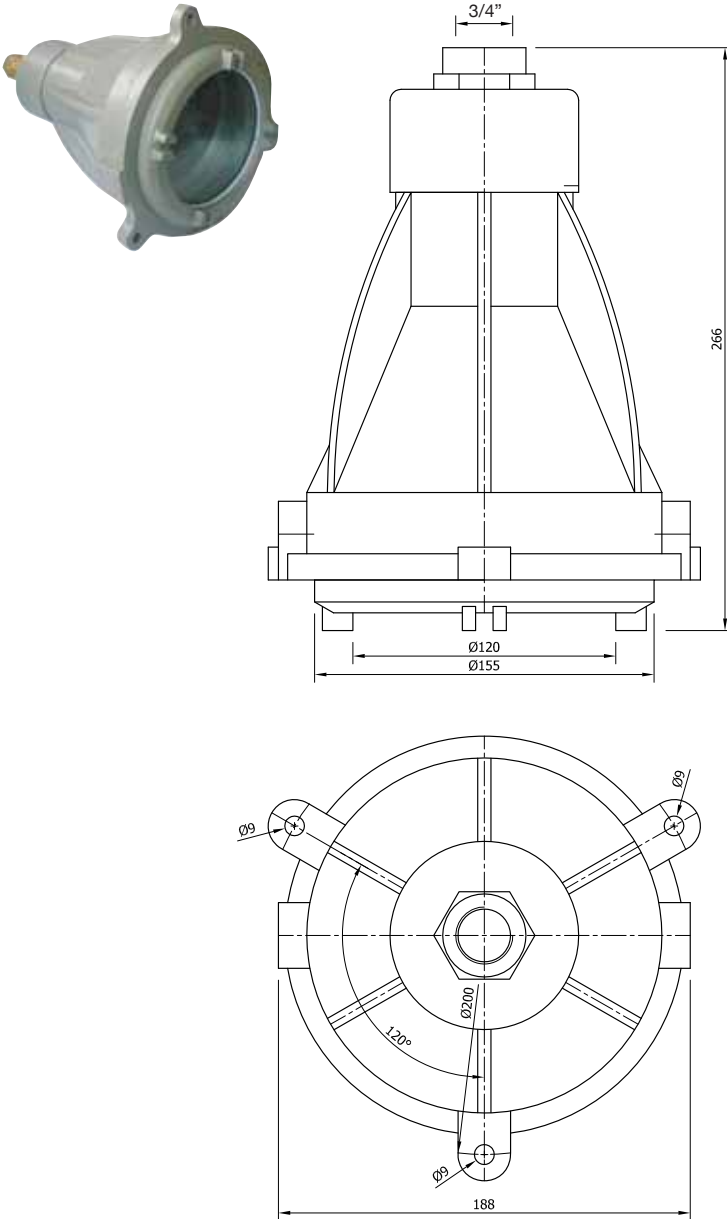
TANK AYDINLATMA ARMATÜRÜ / EL FENERİ

TANK LIGHTING FIXTURE / FLASHLIGHT

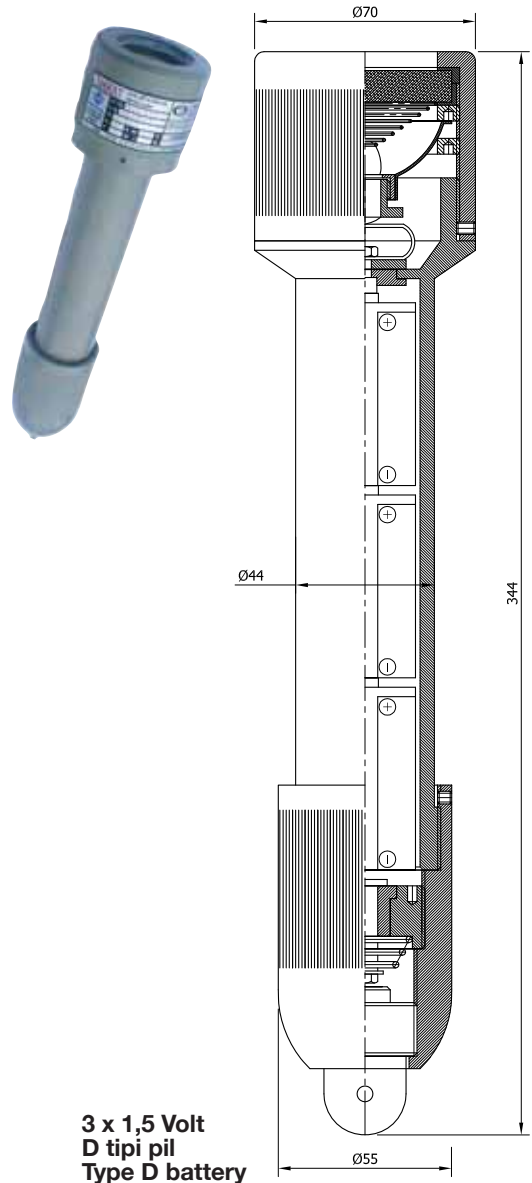


EVO / EVT

EVO



EVT



Model	Lamba Tipi/ Lamp Type	Gerilim Voltage (V)	Güç Wattage (W)	Duy Caps	Işık Akısı (lümen) Luminous flux	Renk Sıcaklığı (K) Color Temp.
EVO.100	Akkor Lamba / Incandescent Lamp	230	100	E27	1300	2700
	Enerji Tasarruflu Lamba / Energy Saving Lamp	230	23	E27	1505	2700
EVO.100-LED	Led Lamba / LED Lamp	108 DC	36	-	4000	6000

Ampul dahil değildir / Bulb is excluded
Ortalama ağırlık / Approximate weight: 3.25 kg
Malzeme: Alüminyum ETIAL 140 Borosilikat camlı
Material: Aluminum ETIAL 140 with borosilicate glass

Model	Işık Akısı (lümen)/ Luminous flux
EVT.315	50 - 60
EVT.135 - LED	120

Ortalama ağırlık / Approximate weight: 1.50 kg
Pil hariçtir / Battery not included
Malzeme / Material : Alüminyum ETIAL 140

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PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



TUŞLU TELEFON TELEPHONE SET

TT.02

Sınıflandırma / Classification

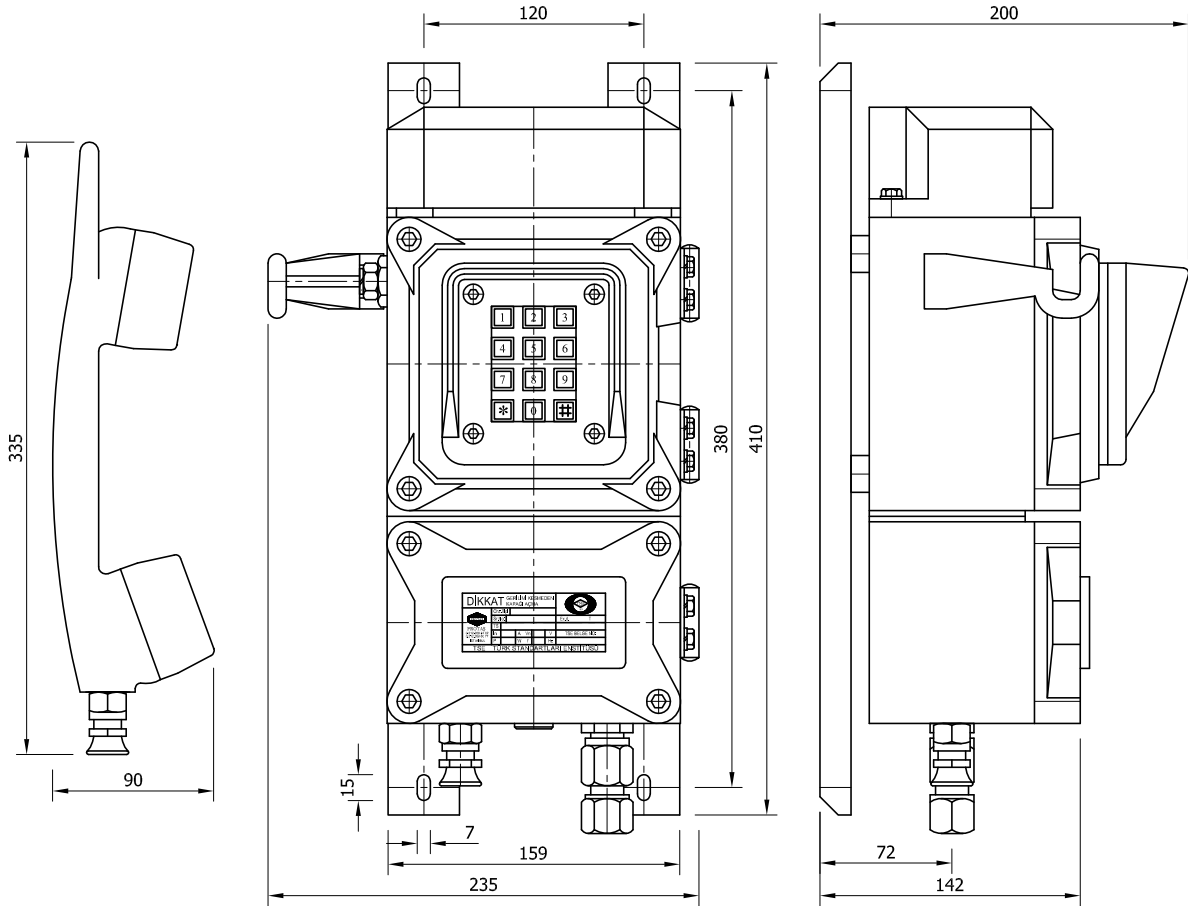
Ex d IIa T6 IP 55

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35-EX / 176



Piezoelektrik korna gerilimi / Bell voltage	: 4 - 6 V (16-25 Hz)
Zener sınıfı / Class of zener barrier	: 6 V - 180 Ohm.
Kulaklık, mikrofon tipi / Earphone - Microphone	: Dinamik / Dynamic
Malzeme / Material	: ETIAL 140
Ağırlık / Weight	: 11.5 kg
Ses şiddeti / Sound level	: 80 - 90 dB
Rakor ve 1 adet körtapa dahildir. / Cable gland and 1 plug included	

Sınıflandırma / Classification

II 2G Ex d (Ia) IIB T6 Gb / II 2D Ex t (Ia) IIIC Tmax 85°C Db IP65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

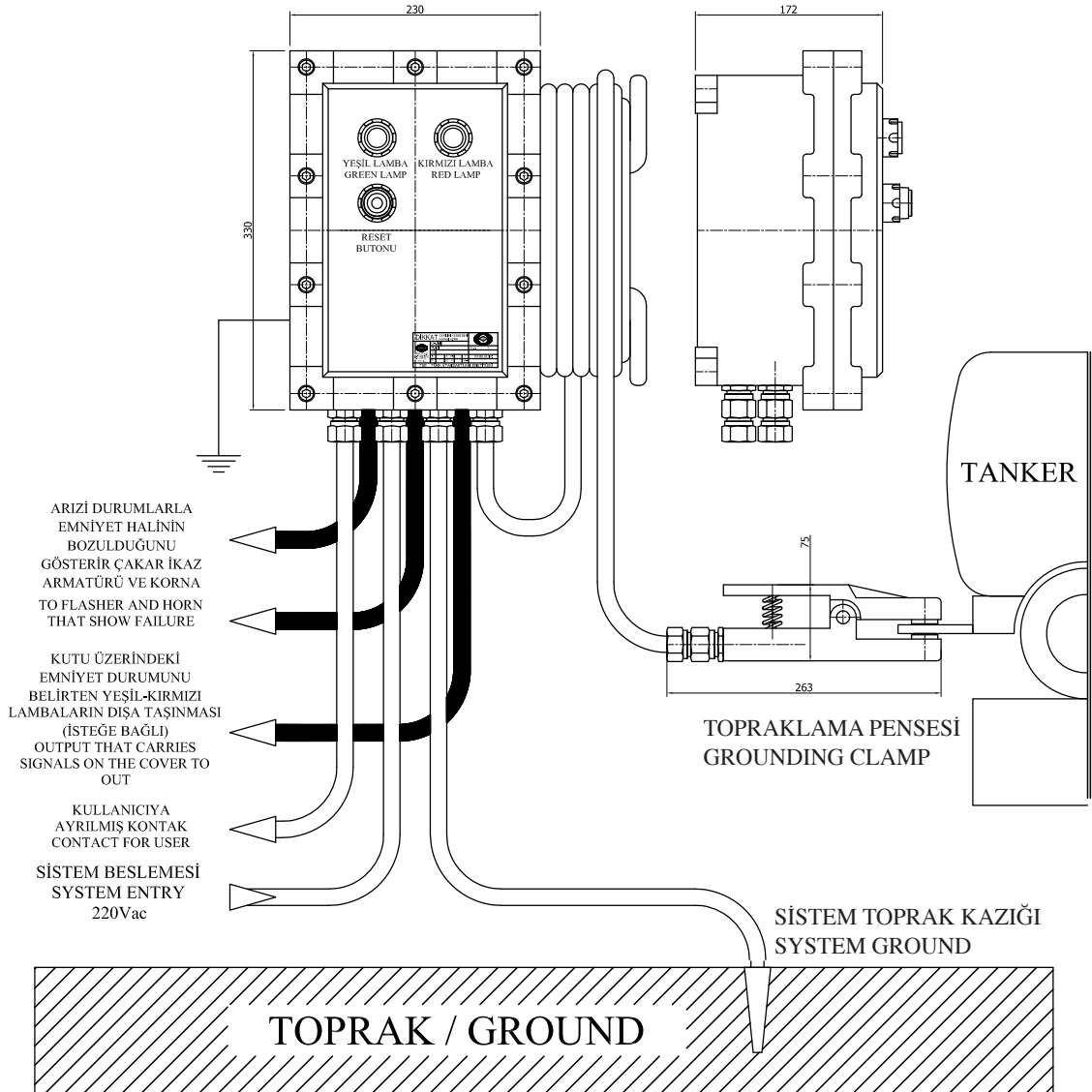
Sertifika No. / Certificate No.

TSE 14.31.35-EX / 173 / IEP 14 ATEX 0187

TOPRAKLAMA CİHAZI ve PENSESİ GROUNDING SYSTEM and CLAMP



PTC



Rakor, pense ve 8 metre kablo dahildir / Cable gland, grounding clamp and 8 meter long cable included
Topraklama cihazı veya pensesi ayrı temin edilebilir / Earthing device and grounding clamp can be provided individually
Ortalama ağırlık / Approximate weight: 16.00 kg
Malzeme/Material: Alüminyum ETIAL 140

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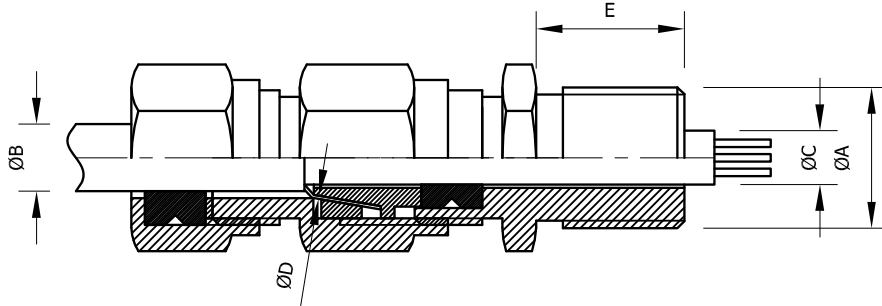


PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



45

KABLO RAKORLARI**CABLE GLANDS****E1WAS****ZIRHLI KABLO İÇİN / FOR ARMoured CABLE**

Rakor Tipi Gland Type	Ağırlık (kg) Weight	A		Bmax	Cmax	Dmax	E	Anahtar Ölçüsü Wrench Size
		NPT	METRIC					
E1WAS.1-A	0.33	1/2"	M20x1.5	10	8	1.5	22	AA 24
E1WAS.1-B	0.35	1/2"	M20x1.5	12	8	1.5	22	AA 24
E1WAS.1-C	0.38	1/2"	M20x1.5	14	10	1.5	22	AA 24
E1WAS.2-A	0.41	3/4"	M25x1.5	16	10	2.0	22	AA 27
E1WAS.2-B	0.44	3/4"	M25x1.5	18	12	2.0	22	AA 27
E1WAS.2-C	0.47	3/4"	M25x1.5	19	12	2.0	22	AA 30
E1WAS.2-D	0.48	3/4"	M25x1.5	22	14	2.0	22	AA 35
E1WAS.3-A	0.52	1"	M32x1.5	24	16	2.5	28	AA 35
E1WAS.3-B	0.55	1"	M32x1.5	26	16	2.5	28	AA 36
E1WAS.3-C	0.57	1"	M32x1.5	28	18	2.5	28	AA 36
E1WAS.3-D	0.58	1"	M32x1.5	30	20	3.0	28	AA 40
E1WAS.4-A	0.84	1 1/4"	M40x1.5	30	25	3.0	28	AA 45
E1WAS.4-B	0.91	1 1/4"	M40x1.5	35	28	3.0	28	AA 45
E1WAS.5-A	1.17	1 1/2"	M50x1.5	38	30	3.0	28	AA 50
E1WAS.5-B	1.24	1 1/2"	M50x1.5	42	35	3.0	28	AA 55
E1WAS.6-A	1.36	2"	M60x1.5	45	38	3.0	28	AA 60
E1WAS.6-B	1.41	2"	M60x1.5	50	42	3.0	28	AA 65
E1WAS.7-A	2.69	2 1/2"	M75x1.5	55	45	3.5	31	AA 80
E1WAS.7-B	2.78	2 1/2"	M75x1.5	62	50	3.5	31	AA 80
E1WAS.8-A	3.27	3"	M90x2	65	55	3.5	31	AA 95
E1WAS.8-B	3.32	3"	M90x2	70	60	3.5	31	AA 95
E1WAS.8-C	3.38	3"	M90x2	75	65	3.5	31	AA 95

Ölçüler mm'dir. / Dimensions in mm.

Malzeme : Pirinç / Material: Brass

Kaplama Seçenekleri / Coating options: Sarı - Çinko (Beyaz) - Nikel / Coating Brass (Yellow) - Nickel Plated - Zinc Coated (White)

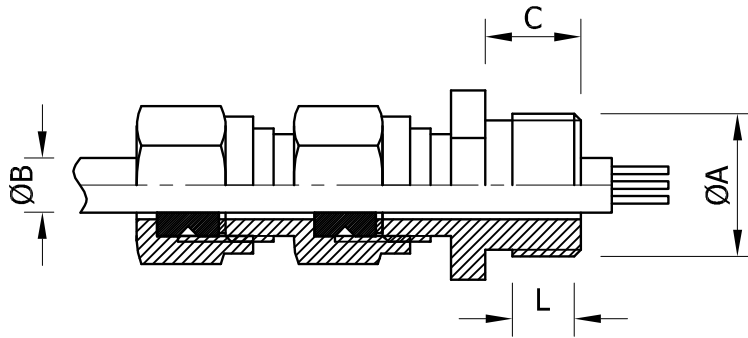
ZIRHSIZ KABLO RAKORLARI

UNARMORED CABLE GLANDS

PCNN



FOR UNARMoured CABLE/ ZIRHSIZ KABLO İÇİN



Rakor Tipi Gland Type	Ağırlık (kg) Weight	A		Bmax	Cmax	Anahtar Ölçüsü Wrench Size
		NPT	METRIC			
PCNN.1-A	0.21	1/2"	M20x1.5	8	16	AA 20-24
PCNN.1-B	0.22	1/2"	M20x1.5	10	16	AA 24
PCNN.1-C	0.23	1/2"	M20x1.5	12	16	AA 24
PCNN.1-D	0.24	1/2"	M20x1.5	14	16	AA 24
PCNN.2-A	0.29	3/4"	M25x1.5	14	16	AA 27
PCNN.2-B	0.31	3/4"	M25x1.5	16	16	AA 27
PCNN.2-C	0.33	3/4"	M25x1.5	18	16	AA 30
PCNN.2-D	0.35	3/4"	M25x1.5	19	16	AA 30
PCNN.3-A	0.38	1"	M32x1.5	22	20	AA 35
PCNN.3-B	0.41	1"	M32x1.5	24	20	AA 35
PCNN.3-C	0.46	1"	M32x1.5	26	20	AA 36
PCNN.4-A	0.71	1 1/4"	M40x1.5	28	20	AA 45
PCNN.4-B	0.79	1 1/4"	M40x1.5	30	20	AA 45
PCNN.5-A	1.00	1 1/2"	M50x1.5	35	20	AA 50
PCNN.5-B	1.21	1 1/2"	M50x1.5	38	20	AA 50
PCNN.6-A	1.29	2"	M60x1.5	42	20	AA 60
PCNN.6-B	1.32	2"	M60x1.5	45	20	AA 60
PCNN.6-C	1.37	2"	M60x1.5	50	20	AA 65
PCNN.7-A	2.57	2 1/2"	M75x1.5	55	25	AA 80
PCNN.7-B	2.61	2 1/2"	M75x1.5	62	25	AA 80
PCNN.8-A	2.98	3"	M90x2	65	25	AA 95
PCNN.8-B	3.07	3"	M90x2	70	25	AA 95
PCNN.8-C	3.15	3"	M90x2	75	25	AA 95

Ölçüler mm'dir. / Dimensions in mm.

Malzeme : Pirinç / Material: Brass

Kaplama Seçenekleri / Coating options: Sarı - Çinko (Beyaz) - Nikel / Coating Brass (Yellow) - Nickel Plated - Zinc Coated (White)

KÖR TAPA PLUGS

PLG

Sınıflandırma / Classification

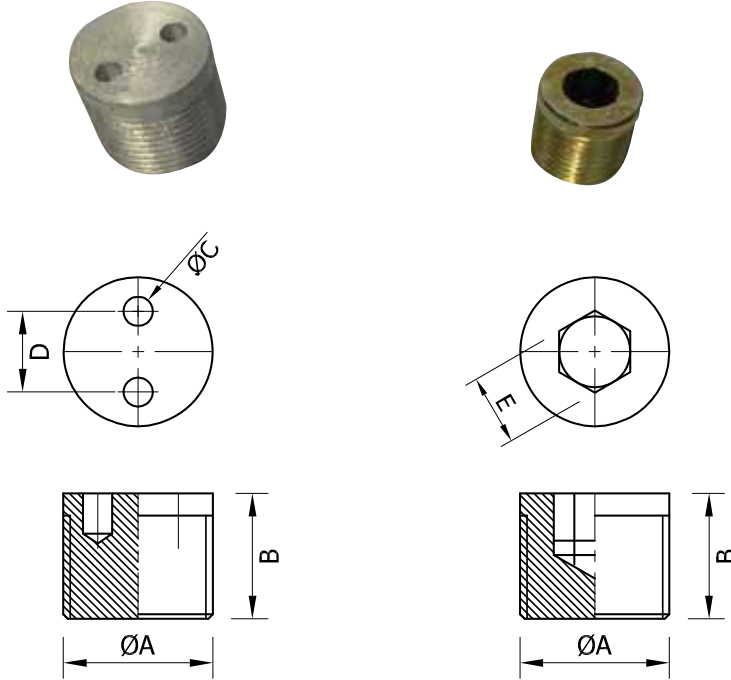
Ex d IIC IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

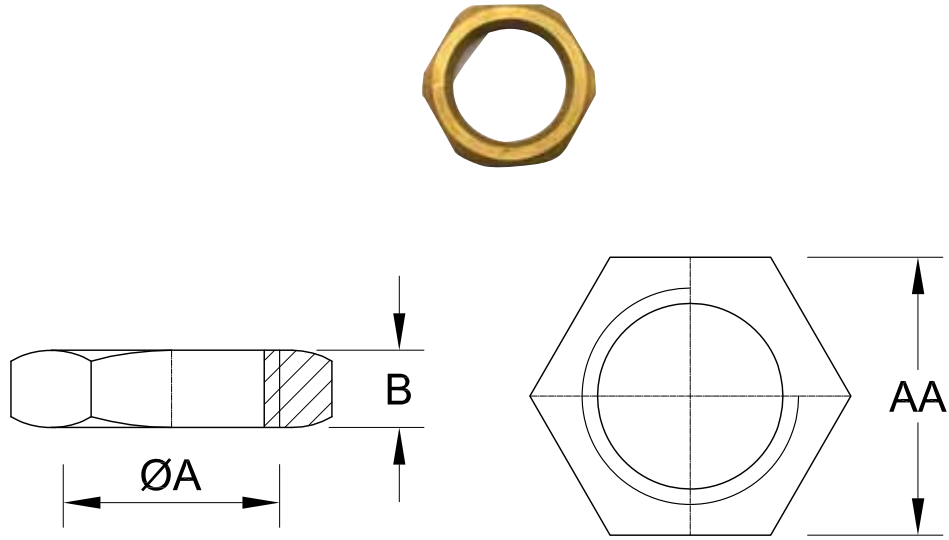
TSE 14.31.35-EX / 175



Rakor Tipi Gland Type	Ağırlık (gram) Weight	A		B	Anahtar Ölçüsü Wrench Size		Materyal Material
		NPT	METRIC		C x D	E	
PLG.1	51	1/2"	M20x1.5	22	-	AA 10	Çelik-Pirinç Steel - Brass
PLG.2	72	3/4"	M25x1.5	22	-	AA 10	
PLG.3	124	1"	M32x1.5	28	Ø6,5x18	-	Alüminyum / Aluminum
PLG.4	153	1 1/4"	M40x1.5	28	Ø8x26	-	
PLG.5	175	1 1/2"	M50x1.5	30	Ø8x28	-	
PLG.6	181	2"	M60x1.5	30	Ø9x36	-	
PLG.7	195	2 1/2"	M75x1.5	33	Ø11x50	-	
PLG.8	255	3"	M90x2	35	Ø11x60	-	

Ölçüler mm'dir. / Dimensions in mm.

Kaplama Seçenekleri / Coating options: Sarı - Çinko (Beyaz) - Nikel / Coating Brass (Yellow) - Nickel Plated - Zinc Coated (White)



Tipi Type	Ağırlık (gram) Weight	Materyal Material	Ø A		B	Anahtar Ölçüsü Wrench Size (AA)
			NPT	METRIC		
KS.1	9	prnç / brass	1/2"	M20x1.5	5	27
KS.2	13	prnç / brass	3/4"	M25x1.5	6	34
KS.3	19	çelik / steel	1"	M32x1.5	7	42
KS.4	41	çelik / steel	1 1/4"	M40x1.5	9	50
KS.5	54	çelik / steel	1 1/2"	M50x1.5	9	60
KS.6	77	çelik / steel	2"	M60x1.5	9	70
KS.7	95	çelik / steel	2 1/2"	M75x1.5	10	85
KS.8	137	çelik / steel	3"	M90x2	10	100

Ölçüler mm'dir. / Dimensions in mm.

REDÜKSİYONLAR

REDUCERS

Sınıflandırma / Classification

Ex d IIC IP 65

Standartlar / Standards

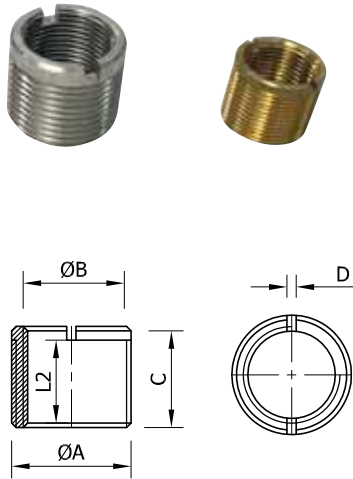
EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

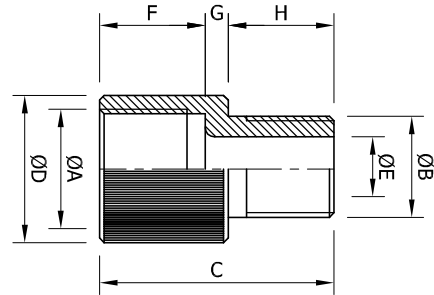
TSE 14.31.35-EX / 175



RE



REB



Tipi	Ağırlık (kg) Weight	A		B		C	D
		NPT	METRIC	NPT	METRIC		
RE.21*	0.05	3/4"	M25x1.5	1/2"	M20x1.5	22	2
RE.31	0.07	1"	M32x1.5	1/2"	M20x1.5	29	5
RE.32	0.07			3/4"	M25x1.5	29	5
RE.41	0.09			1/2"	M20x1.5	29	5
RE.42	0.09	1 1/4"	M40x1.5	3/4"	M25x1.5	29	5
RE.43	0.09			1"	M32x1.5	29	5
RE.51	0.10	1 1/2"	M50x1.5	1/2"	M20x1.5	29	5
RE.52	0.10			3/4"	M25x1.5	29	5
RE.53	0.10			1"	M32x1.5	29	5
RE.54	0.10			1 1/4"	M40x1.5	29	5
RE.61	0.17	2"	M60x1.5	1/2"	M20x1.5	29	6
RE.62	0.17			3/4"	M25x1.5	29	6
RE.63	0.17			1"	M32x1.5	29	6
RE.64	0.17			1 1/4"	M40x1.5	29	6
RE.65	0.17			1 1/2"	M50x1.5	29	6
RE.71	0.26	2 1/2"	M75x1.5	1/2"	M20x1.5	31	6
RE.72	0.26			3/4"	M25x1.5	31	6
RE.73	0.29			1"	M32x1.5	31	6
RE.74	0.29			1 1/4"	M40x1.5	31	6
RE.75	0.29			1 1/2"	M50x1.5	31	6
RE.76	0.29	3"	M90x2	2"	M60x1.5	31	6
RE.81	0.43			1/2"	M20x1.5	31	6
RE.82	0.43			3/4"	M25x1.5	31	6
RE.83	0.43			1"	M32x1.5	31	6
RE.84	0.43			1 1/4"	M40x1.5	31	6
RE.85	0.45			1 1/2"	M50x1.5	31	6
RE.86	0.45			2"	M60x1.5	31	6
RE.87	0.62			2 1/2"	M75x1.5	31	6

Malzeme : Çelik, RE.21pirinç veya çelik / Material: Steel, RE 21. Steel or Brass
Ölçüler mm'dir. / Dimensions in mm.

Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REB.21	0.07	3/4"	M25x1.5	1/2"	M20x1.5	51	32	14	23	5	23
REB.31	0.12	1"	M32x1.5	1/2"	M20x1.5	57	41	14	29	5	23
REB.32	0.13			3/4"	M25x1.5	57	41	19	29	5	23
REB.41	0.19			1/2"	M20x1.5	57	50	14	29	5	23
REB.42	0.19	1 1/4"	M40x1.5	3/4"	M25x1.5	57	50	19	29	5	23
REB.43	0.22			1"	M32x1.5	63	50	24	29	5	29
REB.51	0.37	1 1/2"	M50x1.5	1/2"	M20x1.5	57	58	14	29	5	23
REB.52	0.37			3/4"	M25x1.5	57	58	19	29	5	23
REB.53	0.37			1"	M32x1.5	63	58	24	29	5	29
REB.54	0.37			1 1/4"	M40x1.5	63	58	32	29	5	29
REB.61	0.48	2"	M60x1.5	1/2"	M20x1.5	57	69	14	29	5	23
REB.62	0.48			3/4"	M25x1.5	57	69	19	29	5	23
REB.63	0.48			1"	M32x1.5	63	69	24	29	5	29
REB.64	0.48			1 1/4"	M40x1.5	63	69	32	29	5	29
REB.65	0.48			1 1/2"	M50x1.5	63	69	38	29	5	29
REB.71	0.60	2 1/2"	M75x1.5	1/2"	M20x1.5	60	87	14	32	5	23
REB.72	0.62			3/4"	M25x1.5	60	87	19	32	5	23
REB.73	0.62			1"	M32x1.5	66	87	24	32	5	29
REB.74	0.68			1 1/4"	M40x1.5	66	87	32	32	5	29
REB.75	0.69			1 1/2"	M50x1.5	66	87	38	32	5	29
REB.76	0.69	3"	M90x2	2"	M60x1.5	66	87	49	32	5	29
REB.81	0.70			1/2"	M20x1.5	60	100	14	32	5	23
REB.82	0.71			3/4"	M25x1.5	60	100	19	32	5	23
REB.83	0.94			1"	M32x1.5	66	100	24	32	5	29
REB.84	0.94			1 1/4"	M40x1.5	66	100	32	32	5	29
REB.85	0.94			1 1/2"	M50x1.5	66	100	38	32	5	29
REB.86	0.94			2"	M60x1.5	66	100	49	32	5	29
REB.87	1.17			2 1/2"	M75x1.5	69	100	65	32	5	32

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FTZU 09 ATEX Q 011

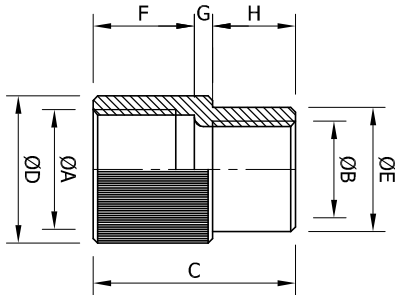
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Üretim Kalite Sistemi



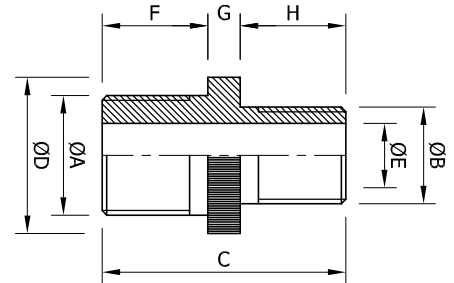
PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ



REM



REN



Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REM.21	0.11	3/4"	M25x1.5	1/2"	M20x1.5	44	32	27	22	4	18
REM.31	0.23	1"	M32x1.5	1/2"	M20x1.5	50	41	27	27	5	18
REM.32	0.23			3/4"	M25x1.5	50	41	32	27	5	18
REM.41	0.24	1 1/4"	M40x1.5	1/2"	M20x1.5	50	50	27	27	5	18
REM.42	0.24			3/4"	M25x1.5	50	50	32	27	5	18
REM.43	0.25	1 1/2"	M50x1.5	1"	M32x1.5	54	50	41	27	5	22
REM.51	0.44			1/2"	M20x1.5	52	58	27	29	5	18
REM.52	0.44			3/4"	M25x1.5	52	58	32	29	5	18
REM.53	0.44			1"	M32x1.5	56	58	41	29	5	22
REM.54	0.44	2"	M60x1.5	1 1/4"	M40x1.5	56	58	50	29	5	22
REM.61	0.49			1/2"	M20x1.5	53	70	27	29	6	18
REM.62	0.49			3/4"	M25x1.5	53	70	32	29	6	18
REM.63	0.52			1"	M32x1.5	57	70	41	29	6	22
REM.64	0.53	2 1/2"	M75x1.5	1 1/4"	M40x1.5	57	70	50	29	6	22
REM.65	0.54			1 1/2"	M50x1.5	59	70	58	29	6	24
REM.71	0.75			1/2"	M20x1.5	56	87	27	32	6	18
REM.72	0.75			3/4"	M25x1.5	56	87	32	32	6	18
REM.73	0.75	3"	M90x2	1"	M32x1.5	60	87	41	32	6	22
REM.74	0.98			1 1/4"	M40x1.5	60	87	50	32	6	22
REM.75	0.98			1 1/2"	M50x1.5	62	87	58	32	6	24
REM.76	0.98			2"	M60x1.5	62	87	70	32	6	24
REM.81	0.99	3"	M90x2	1/2"	M20x1.5	58	100	30	32	8	18
REM.82	0.99			3/4"	M25x1.5	58	100	32	32	8	18
REM.83	0.99			1"	M32x1.5	62	100	41	32	8	22
REM.84	0.99			1 1/4"	M40x1.5	62	100	50	32	8	22
REM.85	0.99			1 1/2"	M50x1.5	64	100	58	32	8	24
REM.86	1.20			2"	M60x1.5	64	100	70	32	8	24
REM.87	1.20			2 1/2"	M75x1.5	66	100	87	32	8	26

Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REN.21	0.10	3/4"	M25x1.5	1/2"	M20x1.5	53	34	14	23	7	23
REN.31	0.17	1"	M32x1.5	1/2"	M20x1.5	59	39	14	29	7	23
REN.32	0.17			3/4"	M25x1.5	59	39	19	29	7	23
REN.41	0.26	1 1/4"	M40x1.5	1/2"	M20x1.5	62	49	14	29	10	23
REN.42	0.26			3/4"	M25x1.5	62	49	19	29	10	23
REN.43	0.26	1 1/2"	M50x1.5	1"	M32x1.5	68	49	24	29	10	29
REN.51	0.68			1/2"	M20x1.5	62	54	14	29	10	23
REN.52	0.68			3/4"	M25x1.5	62	54	19	29	10	23
REN.53	0.68			1"	M32x1.5	68	54	24	29	10	29
REN.54	0.68	2"	M60x1.5	1 1/4"	M40x1.5	68	54	32	29	10	29
REN.61	0.69			1/2"	M20x1.5	62	69	14	29	10	23
REN.62	0.69			3/4"	M25x1.5	62	69	19	29	10	23
REN.63	0.71			1"	M32x1.5	68	69	24	29	10	29
REN.64	0.71	2 1/2"	M75x1.5	1 1/4"	M40x1.5	68	69	32	29	10	29
REN.65	0.71			1 1/2"	M50x1.5	68	69	38	29	10	29
REN.71	0.71			1/2"	M20x1.5	67	84	14	32	12	23
REN.72	0.71			3/4"	M25x1.5	67	84	19	32	12	23
REN.73	0.97	3"	M90x2	1"	M32x1.5	73	84	24	32	12	29
REN.74	0.97			1 1/4"	M40x1.5	73	84	32	32	12	29
REN.75	0.97			1 1/2"	M50x1.5	73	84	38	32	12	29
REN.76	0.97			2"	M60x1.5	73	84	49	32	12	29
REN.81	1.22			1/2"	M20x1.5	67	99	14	32	12	23
REN.82	1.22			3/4"	M25x1.5	67	99	19	32	12	23
REN.83	1.22	3"	M90x2	1"	M32x1.5	73	99	24	32	12	29
REN.84	1.22			1 1/4"	M40x1.5	73	99	32	32	12	29
REN.85	1.22			1 1/2"	M50x1.5	73	99	38	32	12	29
REN.86	1.22			2"	M60x1.5	73	99	49	32	12	29
REN.87	1.48			2 1/2"	M75x1.5	76	99	65	32	12	32

Malzeme: Çelik / Material is Steel
Ölçüler mm'dir. / Dimensions in mm.

NİPEL ve MANŞON

NIPPEL and MUFF

Sınıflandırma / Classification

Ex d IIC IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

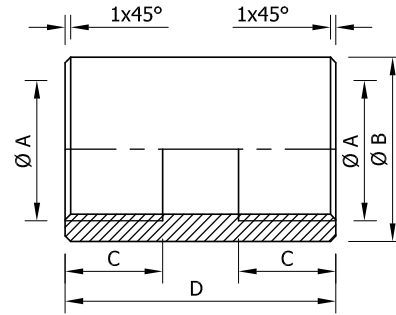
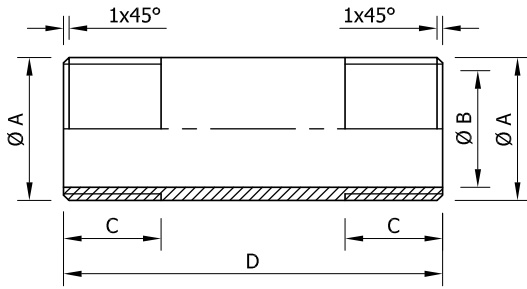
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NP

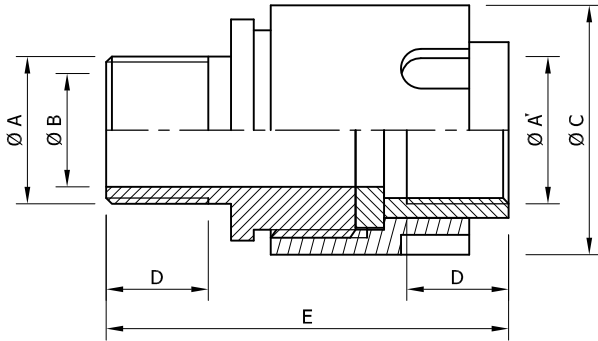
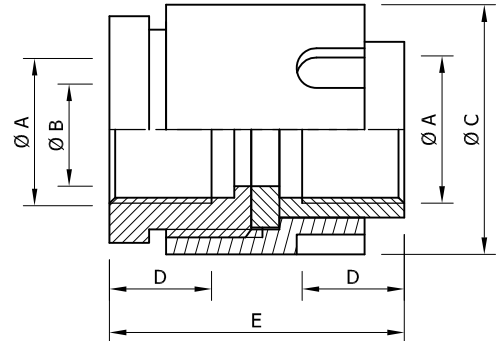
EM



Nipel Nippel	Ağırlık (gram) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
NP.1	59	1/2"	M20x1.5	15	18	70
NP.2	72	3/4"	M25x1.5	19.5	18	70
NP.3	110	1"	M32x1.5	25	23	80
NP.4	155	1 1/4"	M40x1.5	33	23	80
NP.5	169	1 1/2"	M50x1.5	40	23	80
NP.6	191	2"	M60x1.5	51	23	90
NP.7	600	2 1/2"	M75x1.5	65	25	100
NP.8	790	3"	M90x2	78	25	100

Malzeme: Çelik / Material is Steel

Manşon Muff	Ağırlık (gram) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
EM.1	48	1/2"	M20x1.5	28	18	50
EM.2	67	3/4"	M25x1.5	34	18	50
EM.3	95	1"	M32x1.5	39	23	60
EM.4	125	1 1/4"	M40x1.5	49	23	60
EM.5	137	1 1/2"	M50x1.5	58	23	60
EM.6	155	2"	M60x1.5	69	23	60
EM.7	525	2 1/2"	M75x1.5	87	25	70
EM.8	680	3"	M90x2	98	25	70

**UNY****UNF**

Rakor Tipi Gland Type	Ağırlık (kg) Weight	ØA		ØA'		Ölçüler Dimensions (mm)			
		NPT	METRIC	NPT	METRIC	ØB	ØC	D	E
UNY.1	0.20	1/2"	M20x1.5	1/2"	M20x1.5	15	38	18	71
UNY.2	0.30	3/4"	M25x1.5	3/4"	M25x1.5	20	44	18	71
UNY.3	0.40	1"	M32x1.5	1"	M32x1.5	25	52	23	88
UNY.4	0.50	1 1/4"	M40x1.5	1 1/4"	M40x1.5	32	63	23	88
UNY.5	0.60	1 1/2"	M50x1.5	1 1/2"	M50x1.5	37	69	23	92
UNY.6	0.70	2"	M60x1.5	2"	M60x1.5	50	84	23	94
UNY.7	0.80	2 1/2"	M75x1.5	2 1/2"	M75x1.5	62	108	25	100
UNY.8	0.90	3"	M90x2	3"	M90x2	74	128	25	104

Malzeme: Çelik / Material is Steel

Rakor Tipi Gland Type	Ağırlık (kg) Weight	ØA		Ölçüler Dimensions (mm)			
		NPT	METRIC	ØB	ØC	D	E
UNF.1	0.10	1/2"	M20x1.5	15	38	18	52
UNF.2	0.20	3/4"	M25x1.5	20	44	18	52
UNF.3	0.30	1"	M32x1.5	25	52	23	64
UNF.4	0.40	1 1/4"	M40x1.5	32	63	23	66
UNF.5	0.50	1 1/2"	M50x1.5	37	69	25	69
UNF.6	0.60	2"	M60x1.5	50	84	25	69
UNF.7	0.70	2 1/2"	M75x1.5	62	108	25	73
UNF.8	0.80	3"	M90x2	74	128	27	74

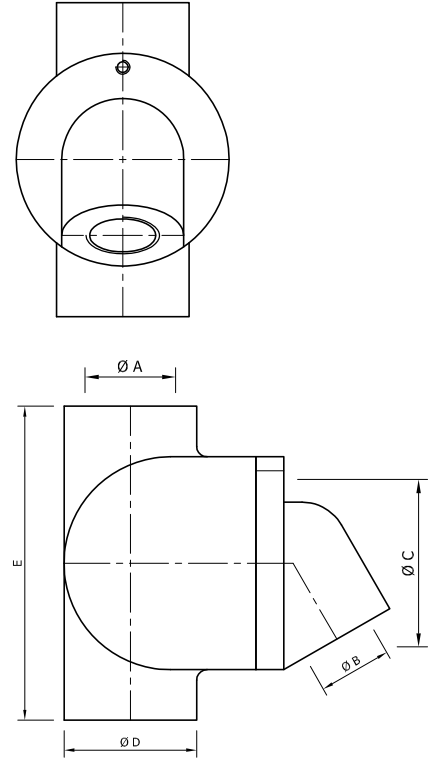
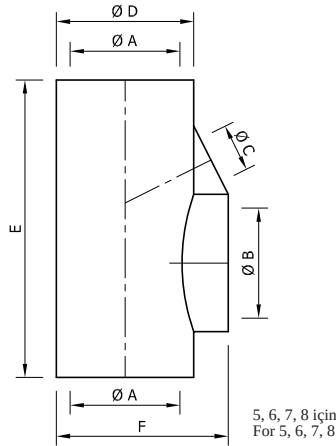
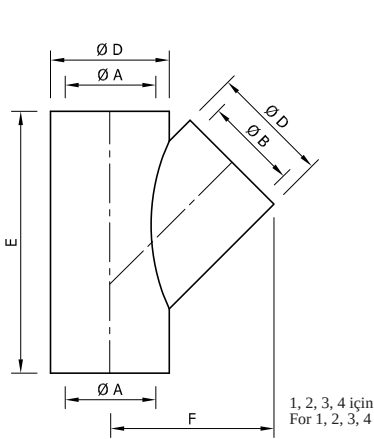
DÜŞEY ve YATAY DURDURUCULAR

VERTICAL and HORIZONTAL SEALS



EYS

EYS



Gövde Tipi / Body Type	Ağırlık (kg) Weight	ØA		Körtapa Dişi Plug Thread		Ölçüler (mm) Dimensions		
		NPT	METRIC	ØB	ØC	ØD	E	F
EYS.1	0.23	1/2"	M20x1.5	G 1/2	-	28	70	50
EYS.2	0.34	3/4"	M25x1.5	G 3/4	-	34	75	55
EYS.3	0.41	1"	M32x1.5	G 1	-	44	95	60
EYS.4	0.72	1 1/4"	M40x1.5	G 1 1/4	-	54	110	80
EYS.5	0.85	1 1/2"	M50x1.5	G 1 1/2	G 1/2	60	130	45
EYS.6	0.92	2"	M60x1.5	G 2	G 1/2	75	150	60
EYS.7	1.40	2 1/2"	M75x1.5	G 2 1/2	G 1	94	200	80
EYS.8	1.58	3"	M90x2	G 2 1/2	G 1	104	220	85

Gövde Tipi / Body Type	Ağırlık (kg) Weight	ØA		Körtapa Dişi / Plug Thread ØB	Kapak Dişi / Cover Thread ØC	Ölçüler (mm) Dimensions	
		NPT	METRIC			D	E
EZS.1	0.29	1/2"	M20x1.5	G 1/2	G 1 1/2	38	90
EZS.2	0.33	3/4"	M25x1.5	G 1/2	G 1 1/2	38	90
EZS.3	0.37	1"	M32x1.5	G 1/2	G 1 1/2	44	120
EZS.4	0.66	1 1/4"	M40x1.5	G 1/2	G 2	54	140
EZS.5	0.74	1 1/2"	M50x1.5	G 1/2	G 2 1/2	60	160
EZS.6	0.87	2"	M60x1.5	G 1/2	G 2 1/2	72	160
EZS.7	1.79	2 1/2"	M75x1.5	G 1/2	G 3 1/2	94	200
EZS.8	1.98	3"	M90x2	G 1/2	G 3 1/2	104	220

Malzeme/Material: Alüminyum ETIAL 140

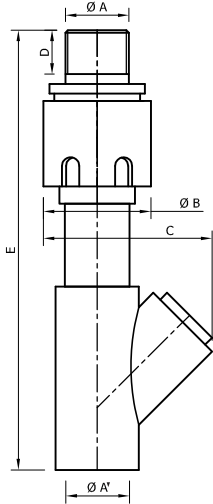
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DÜŞEY ve YATAY RAKORLU DURDURUCULAR

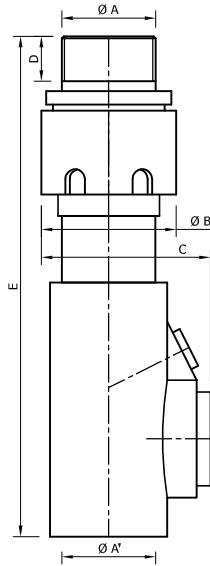
CONDUIT UNIONS WITH SEALS



UNYS

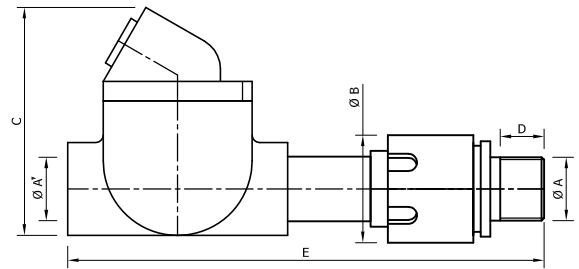


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For 1, 2, 3, 4



5, 6, 7, 8 için
For 5, 6, 7, 8

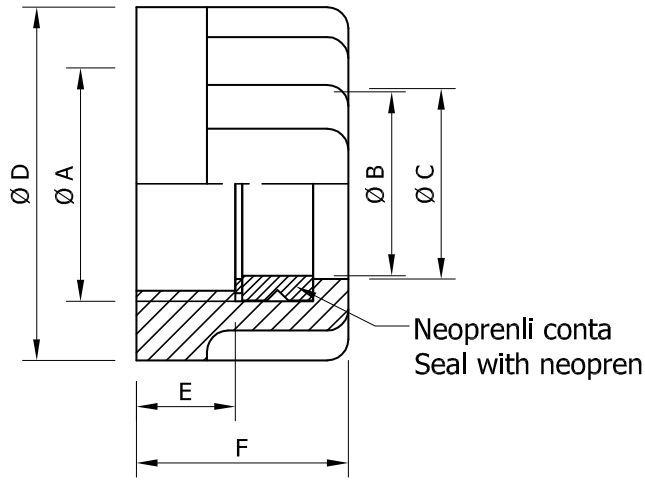
UNYZ



Gövde Tipi Body Type	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)							
		ØA		ØA'					
		NPT	METRIC	NPT	METRIC	ØB	C	D	E
UNYS.1	0.18	1/2"	M20x1.5	1/2"	M20x1.5	38	60	18	175
UNYS.2	0.41	3/4"	M25x1.5	3/4"	M25x1.5	44	69	18	180
UNYS.3	0.50	1"	M32x1.5	1"	M32x1.5	52	87	23	217
UNYS.4	0.60	1 1/4"	M40x1.5	1 1/4"	M40x1.5	63	111	23	232
UNYS.5	0.70	1 1/2"	M50x1.5	1 1/2"	M50x1.5	69	87	23	256
UNYS.6	0.80	2"	M60x1.5	2"	M60x1.5	84	110	23	291
UNYS.7	0.90	2 1/2"	M75x1.5	2 1/2"	M75x2	108	142	25	350
UNYS.8	1.00	3"	M90x2	3"	M90x2.5	128	157	25	374

Malzeme/Material: Alüminyum ETIAL 140

Gövde Tipi Body Type	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)							
		ØA		ØA'					
		NPT	METRIC	NPT	METRIC	ØB	C	D	E
UNYZ.1	0.76	1/2"	M20x1.5	1/2"	M20x1.5	38	93	18	145
UNYZ.2	0.82	3/4"	M25x1.5	3/4"	M25x1.5	44	93		195
UNYZ.3	1.00	1"	M32x1.5	1"	M32x1.5	52	103		237
UNYZ.4	1.50	1 1/4"	M40x1.5	1 1/4"	M40x1.5	63	107	23	267
UNYZ.5	2.00	1 1/2"	M50x1.5	1 1/2"	M50x1.5	69	122		291
UNYZ.6	2.50	2"	M60x1.5	2"	M60x1.5	84	132		303
UNYZ.7	3.50	2 1/2"	M75x1.5	2 1/2"	M75x1.5	108	164	25	360
UNYZ.8	4.50	3"	M90x2	3"	M90x2	128	180		388

BORU SONLANDIRMA RAKORU**ENDING FITTINGS****BUSH**

Gövde Tipi Body Type	Ağırlık (gram) Weight	ØA		Ölçüler / Dimensions (mm)				
		NPT	METRIC	ØB	ØC	ØD	E	F
BUSH.2	17	3/4"	M25x1.5	19	20	40	14	28
BUSH.3	24	1"	M32x1.5	26	27	50	14	30
BUSH.5	37	1 1/2"	M50x1.5	30	33	73	19	40
BUSH.6	51	2"	M60x1.5	40	44	80	24	45
BUSH.7	69	2 1/2"	M75x1.5	55	57	100	24	53
BUSH.8	80	3"	M90x2	70	75	114	24	53

Malzeme/Material: Alüminyum ETIAL 140

RAKORLU DÜŞEY DURDURUCU

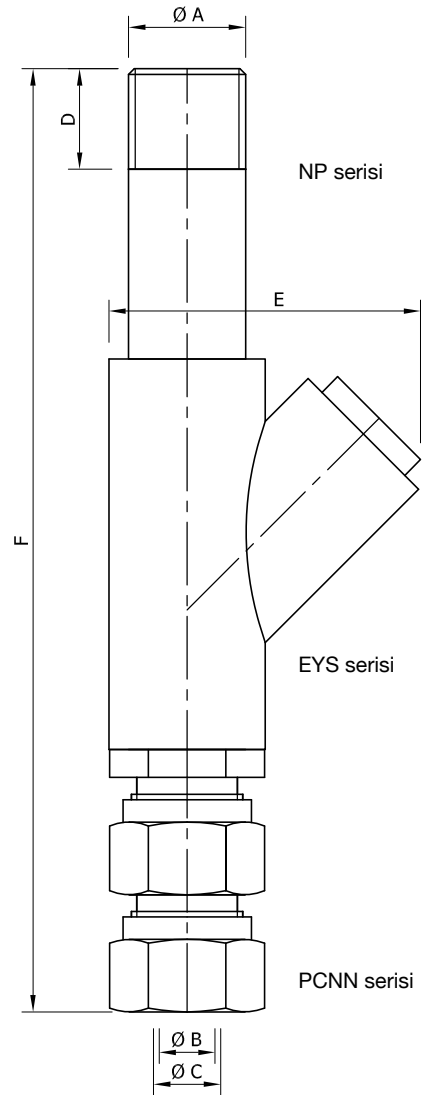
ENDING FITTINGS

NEPC



Gövde Tipi Body Type	Ağırlık (kg) Weight	ØA		Ölçüler / Dimensions (mm)				
		NPT	METRIC	ØB	ØC	ØD	E	F
NEPC. 1 A	0.31	1/2"	M20x1.5	8	10	18	60	163
NEPC. 1 B	0.32	1/2"	M20x1.5	10	12			
NEPC. 1 C	0.32	1/2"	M20x1.5	12	13			
NEPC. 2 A	0.32	3/4"	M25x1.5	14	16		69	168
NEPC. 2 B	0.41	3/4"	M25x1.5	16	18			
NEPC. 2 C	0.42	3/4"	M25x1.5	18	20			
NEPC. 2 D	0.44	3/4"	M25x1.5	19	20	22	87	195
NEPC. 3 A	0.52	1"	M32x1.5	22	24			
NEPC. 3 B	0.53	1"	M32x1.5	24	26			
NEPC. 3 C	0.54	1"	M32x1.5	26	28		111	210
NEPC. 4 A	0.63	1 1/4"	M40x1.5	28	29			
NEPC. 4 B	0.64	1 1/4"	M40x1.5	30	32			
NEPC. 5 A	0.75	1 1/2"	M50x1.5	35	37	24	87	230
NEPC. 5 B	0.78	1 1/2"	M50x1.5	38	40			
NEPC. 6 A	1.17	2"	M60x1.5	42	44		110	260
NEPC. 6 B	1.28	2"	M60x1.5	45	47			
NEPC. 6 C	1.31	2"	M60x1.5	50	52			
NEPC. 7 A	2.19	2 1/2"	M75x1.5	55	57		26	142
NEPC. 7 B	2.21	2 1/2"	M75x1.5	62	64			
NEPC. 8 A	2.89	3"	M90x2	65	68	157		379
NEPC. 8 B	2.97	3"	M90x2	70	73			
NEPC. 8 C	3.11	3"	M90x2	75	78			

Malzeme/Material: Alüminyum ETIAL 140



PASLANMAZ ÖRGÜLÜ HORTUM

STAINLESS FLEXIBLE CONDUIT

Sınıflandırma / Classification

Ex d IIC IP 65

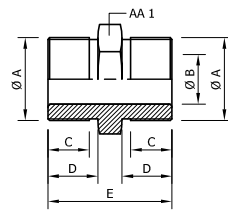
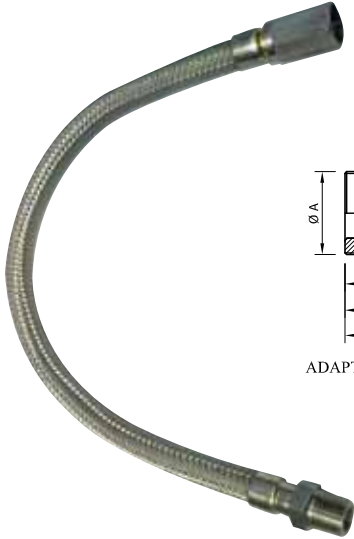
Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

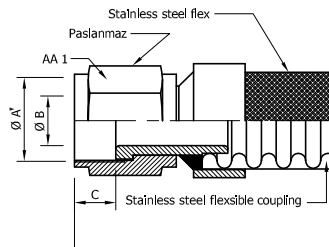
Sertifika No. / Certificate No.

TSE 14.31.35-EX / 175

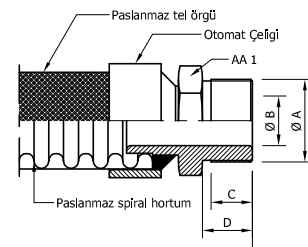
EI



ADAPTÖR NİPELİ / NIPPEL



DİŞİ RAKOR/FEMALE



ERKEK RAKOR/MALE

PASLANMAZ ÇELİK RAKORLU ve SİRALLİ FLEKSİBİL HORTUM
STAINLESS STEEL FLEXIBLE COUPLINGS, STAINLESS STEEL
THREADED END FITTINGS

Model	Ağırlık (kg) Weight	ØA		ØA'		Ölçüler / Dimensions (mm)				
		NPT	METRIC	NPT	METRIC	AA 1	ØB	C	D	E
EI.1	0.45	1/2"	M20x1.5	1/2"	M20x1.5	26	11	18	22	48
EI.2	0.47	3/4"	M25x1.5	3/4"	M25x1.5	32	16	18	22	48
EI.3	0.49	1"	M32x1.5	1"	M32x1.5	41	20	22	27	60
EI.4	0.52	1 1/4"	M40x1.5	1 1/4"	M40x1.5	46	25	22	27	60
EI.5	0.55	1 1/2"	M50x1.5	1 1/2"	M50x1.5	55	30	24	29	74
EI.6	0.60	2"	M60x1.5	2"	M60x1.5	68	40	24	29	74

Giriş Tipi / Thread		(F) Toplam Uzunluk / Total Length (mm)							
NPT	METRIC	250	500	750	1000	1250	1500	1750	2000
1/2"	20x1.5	1x250	1x500	1x750	1x1000	1x1250	1x1500	1x1750	1x2000
3/4"	25x1.5	2x250	2x500	2x750	2x1000	2x1250	2x1500	2x1750	2x2000
1"	32x1.5	3x250	3x500	3x750	3x1000	3x1250	3x1500	3x1750	3x2000
1 1/4"	40x1.5	-	-	-	-	4x1250	4x1500	4x1750	4x2000
1 1/2"	50x1.5	-	-	-	-	5x1250	5x1500	5x1750	5x2000
2"	60x1.5	-	-	-	-	6x1250	6x1500	6x1750	6x2000

Paslanmaz çelik
Dış tipi
Erkek Nipel
Dış rakor
Hortum boyu mm
EI .2 HY .500

Hortum sipariş şekli

TYPE
Thread type
Male
Female
Coupling length
EI .2 HY .500

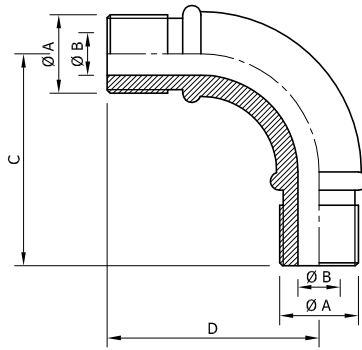
Order code

Y Dışi rakor/Female
H Erkek rakor/Male

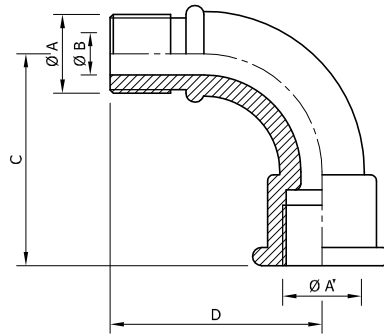
Hortum giriş tipleri		
Entry Type		
HH	YY	HY



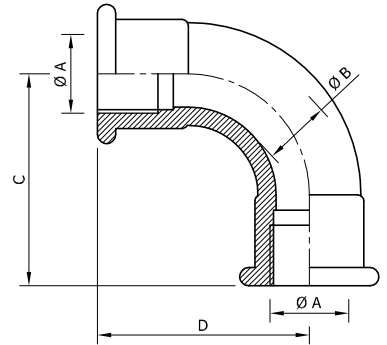
ELM / 90°



ELMF / 90°



ELF / 90°



Gövde Tipi Type	Ağırlık (kg) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
ELM.1/90°	0.25	1/2"	M20x1.5	13	70	70
ELM.2/90°	0.27	3/4"	M25x1.5	14	70	70
ELM.3/90°	0.41	1"	M32x1.5	20	90	90
ELM.4/90°	0.69	1 1/4"	M40x1.5	30	110	110
ELM.5/90°	0.71	1 1/2"	M50x1.5	32	120	120
ELM.6/90°	1.16	2"	M60x1.5	42	140	140
ELM.7/90°	2.26	2 1/2"	M75x1.5	50	175	175
ELM.8/90°	3.17	3"	M90x2	70	205	205

Gövde Tipi Type	Ağırlık (kg) Weight	ØA		ØA'		Ölçüler Dimensions (mm)		
		NPT	METRIC	NPT	METRIC	ØB	C	D
ELMF.1/90°	0.19	1/2"	M20x1.5	1/2"	M20x1.5	13	70	70
ELMF.2/90°	0.21	3/4"	M25x1.5	3/4"	M25x1.5	14	70	70
ELMF.3/90°	0.29	1"	M32x1.5	1"	M32x1.5	20	90	90
ELMF.4/90°	0.58	1 1/4"	M40x1.5	1 1/4"	M40x1.5	30	110	110
ELMF.5/90°	0.81	1 1/2"	M50x1.5	1 1/2"	M50x1.5	32	120	120
ELMF.6/90°	1.51	2"	M60x1.5	2"	M60x1.5	42	140	140
ELMF.7/90°	2.32	2 1/2"	M75x1.5	2 1/2"	M75x1.5	50	175	175
ELMF.8/90°	3.62	3"	M90x2	3"	M90x2	70	205	205

Gövde Tipi Type	Ağırlık (kg) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
ELF.1/90°	0.15	1/2"	M20x1.5	16	70	70
ELF.2/90°	0.19	3/4"	M25x1.5	22	70	70
ELF.3/90°	0.23	1"	M32x1.5	26	90	90
ELF.4/90°	0.44	1 1/4"	M40x1.5	35	110	110
ELF.5/90°	0.46	1 1/2"	M50x1.5	42	120	120
ELF.6/90°	0.69	2"	M60x1.5	50	140	140
ELF.7/90°	0.91	2 1/2"	M75x1.5	64	175	175
ELF.8/90°	1.56	3"	M90x2	79	205	205

Malzeme/Material: Alüminyum ETIAL 140

DİRSEKLER

ELBOWS

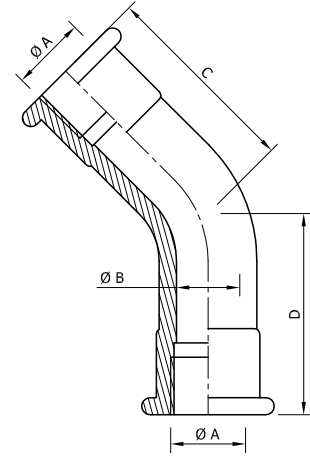
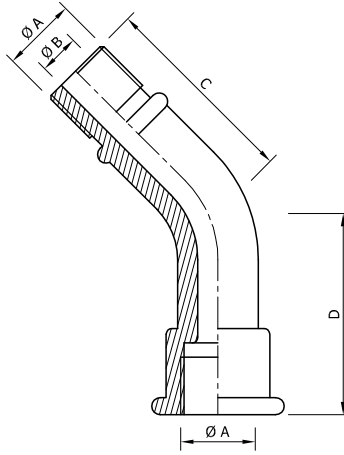
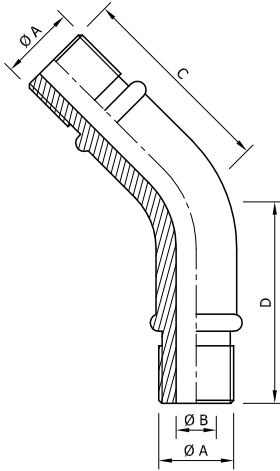
EL



ELM / 45°

ELMF / 45°

ELF / 45°



Gövde Tipi Type	Ağırlık (kg) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
ELM.1/45°	0.24	1/2"	M20x1.5	10	60	60
ELM.2/45°	0.26	3/4"	M25x1.5	14	60	60
ELM.3/45°	0.40	1"	M32x1.5	20	80	80
ELM.4/45°	0.67	1 1/4"	M40x1.5	30	100	100
ELM.5/45°	0.69	1 1/2"	M50x1.5	32	110	110
ELM.6/45°	1.12	2"	M60x1.5	42	120	120
ELM.7/45°	2.195	2 1/2"	M75x1.5	50	150	150
ELM.8/45°	3.00	3"	M90x2	70	200	200

Gövde Tipi Type	Ağırlık (kg) Weight	ØA		ØA'		Ölçüler Dimensions (mm)		
		NPT	METRIC	NPT	METRIC	ØB	C	D
ELMF.1/45°	0.18	1/2"	M20x1.5	1/2"	M20x1.5	10	60	60
ELMF.2/45°	0.19	3/4"	M25x1.5	3/4"	M25x1.5	14	60	60
ELMF.3/45°	0.27	1"	M32x1.5	1"	M32x1.5	20	80	80
ELMF.4/45°	0.57	1 1/4"	M40x1.5	1 1/4"	M40x1.5	30	100	100
ELMF.5/45°	0.79	1 1/2"	M50x1.5	1 1/2"	M50x1.5	32	110	110
ELMF.6/45°	1.47	2"	M60x1.5	2"	M60x1.5	42	120	120
ELMF.7/45°	2.16	2 1/2"	M75x1.5	2 1/2"	M75x1.5	50	150	150
ELMF.8/45°	3.51	3"	M90x2	3"	M90x2	70	200	200

Gövde Tipi Type	Ağırlık (kg) Weight	ØA		Ölçüler Dimensions (mm)		
		NPT	METRIC	ØB	C	D
ELF.1/45°	0.14	1/2"	M20x1.5	16	60	60
ELF.2/45°	0.18	3/4"	M25x1.5	22	60	60
ELF.3/45°	0.21	1"	M32x1.5	26	80	80
ELF.4/45°	0.42	1 1/4"	M40x1.5	35	100	100
ELF.5/45°	0.45	1 1/2"	M50x1.5	42	110	110
ELF.6/45°	0.61	2"	M60x1.5	50	120	120
ELF.7/45°	0.89	2 1/2"	M75x1.5	64	150	150
ELF.8/45°	1.47	3"	M90x2	80	200	200

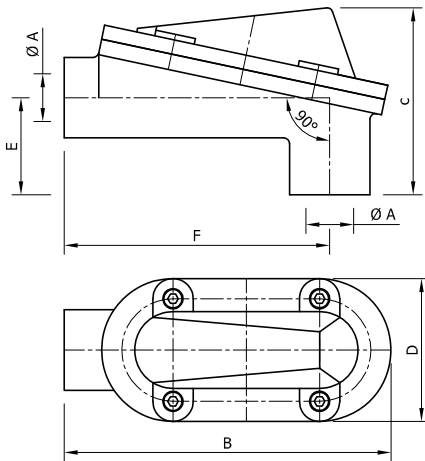
Malzeme/Material: Alüminyum ETIAL 140

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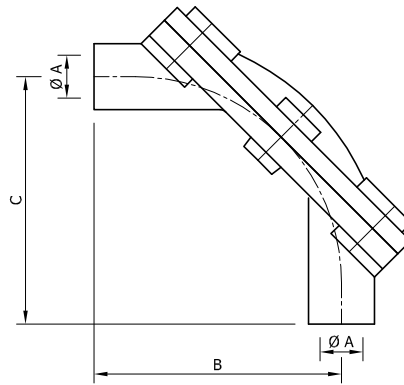


LBH

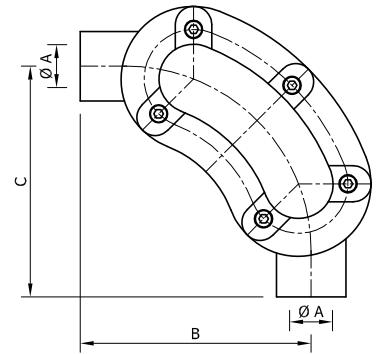
LBH



LBHS



LBHF



Gövde Tipi Type	Ağırlık (kg) Weight	Civata Sayısı Bolt Qty.	ØA		Ölçüler Dimensions (mm)					
			NPT	METRIC	B	C	D	E	F	
LBH.1	0.85	4	1/2"	M20x1.5	172	94	78	53	145	
LBH.2	0.85	4	3/4"	M25x1.5	172	94	78	53	145	
LBH.3	0.92	4	1"	M32x1.5	172	94	78	53	145	
LBH.4	1.71	10	1 1/4"	M40x1.5	225	132	94	73	183	
LBH.5	1.71	10	1 1/2"	M50x1.5	225	132	94	73	183	
LBH.6	1.71	10	2"	M60x1.5	300	165	116	85	246	
LBH.7	3.81	10	2 1/2"	M75x1.5	365	204	134	100	300	
LBH.8	3.81	10	3"	M90x2	375	208	146	108	300	

Gövde Tipi Type	Ağırlık (kg) Weight	Civata Sayısı Bolt Qty.	ØA		Ölçüler Dimensions (mm)	
			NPT	METRIC	B	C
LBHS.1	0.99	6	1/2"	M20x1.5	150	150
LBHS.2	0.99	6	3/4"	M25x1.5	150	150
LBHS.3	1.15	6	1"	M32x1.5	190	190
LBHS.4	1.74	8	1 1/4"	M40x1.5	300	300
LBHS.5	1.74	8	1 1/2"	M50x1.5	300	300
LBHS.6	2.83	8	2"	M60x1.5	300	300

Gövde Tipi Type	Ağırlık (kg) Weight	Civata Sayısı Bolt Qty.	ØA		Ölçüler Dimensions (mm)	
			NPT	METRIC	B	C
LBHF.1	1.55	6	1/2"	M20x1.5	140	140
LBHF.2	1.55	6	3/4"	M25x1.5	140	140
LBHF.3	1.55	6	1"	M32x1.5	180	180
LBHF.4	4.15	8	1 1/4"	M40x1.5	260	260
LBHF.5	4.15	8	1 1/2"	M50x1.5	260	260
LBHF.6	4.15	8	2"	M60x1.5	300	300

Malzeme/Material: Alüminyum ETIAL 140

KABLO ÇEKME KUTULARI

CABLE PULL BOXES

EK

Sınıflandırma / Classification

Ex d IIC IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

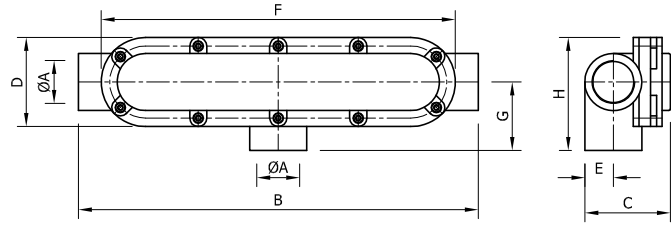
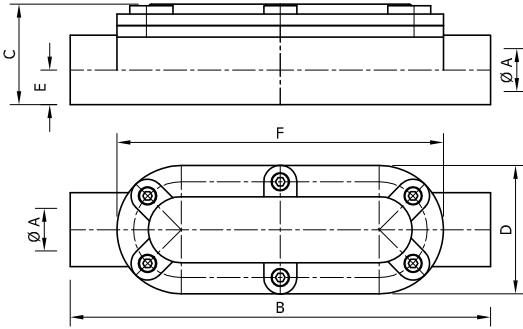
Sertifika No. / Certificate No.

TSE 14.31.35-EX / 175



EKC

EKCT



Model	Ağırlık (kg) Weight	Civata Sayısı Bolt Qty.	ØA		Ölçüler Dimensions (mm)					
			NPT	METRIC	B	C	D	E	F	
EKC.1	0.89	6	1/2"	M20x1.5	250	64	76	23	196	
EKC.2	0.89	6	3/4"	M25x1.5	250	64	76	23	196	
EKC.3	0.94	8	1"	M32x1.5	300	80	93	30	273	
EKC.4	2.10	8	1 1/4"	M40x1.5	350	90	102	35	280	
EKC.5	2.10	8	1 1/2"	M50x1.5	350	95	108	36	298	
EKC.6	2.40	10	2"	M60x1.5	600	115	130	43	340	
EKC.7	4.79	10	2 1/2"	M75x1.5	700	140	156	55	516	
EKC.8	4.79	10	3"	M90x2	800	190	230	74	650	

Model	Ağırlık (kg) Weight	Civata Sayısı Bolt Qty.	ØA		Ölçüler Dimensions (mm)							
			NPT	METRIC	B	C	D	E	F	G	H	
EKCT.1	0.74	6	1/2"	M20x1.5	250	64	76	23	196	70	110	
EKCT.2	0.80	6	3/4"	M25x1.5	250	64	76	23	196	70	110	
EKCT.3	0.91	8	1"	M32x1.5	300	80	93	30	273	75	115	
EKCT.4	1.00	8	1 1/4"	M40x1.5	350	90	102	35	280	85	135	
EKCT.5	1.34	8	1 1/2"	M50x1.5	350	95	108	36	298	85	135	
EKCT.6	1.90	10	2"	M60x1.5	600	115	130	43	340	105	180	
EKCT.7	3.51	10	2 1/2"	M75x1.5	700	140	156	55	516	120	200	
EKCT.8	3.67	10	3"	M90x2	800	190	230	74	650	135	220	

Malzeme/Material: Alüminyum ETIAL 140

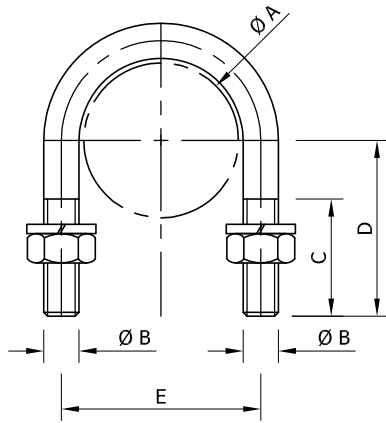
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BORU KELEPÇELERİ

PIPE CLIPS

UB, GF

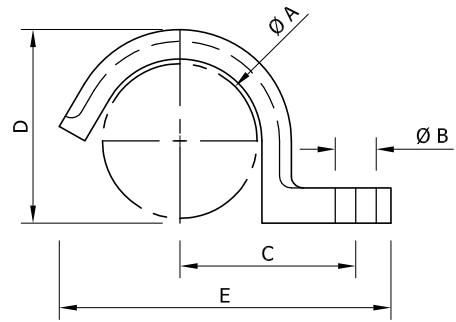
UB



Kelepçe Pipe Clip	Ağırlık (kg) Weight	ØA	Ölçüler Dimensions (mm)			
			ØB	C	D	E
UB.1	0.21	R 1/2"	M6	20	30	29
UB.2	0.23	R 3/4"	M6	25	35	34
UB.3	0.25	R 1"	M6	25	40	41
UB.4	0.27	R 1 1/4"	M6	30	45	50
UB.5	0.29	R 1 1/2"	M8	30	50	58
UB.6	0.31	R 2"	M8	30	55	70
UB.7	0.33	R 2 1/2"	M8	40	70	86
UB.8	0.35	R 3"	M8	50	85	100

Malzeme/Material: Çelik/Steel

GF



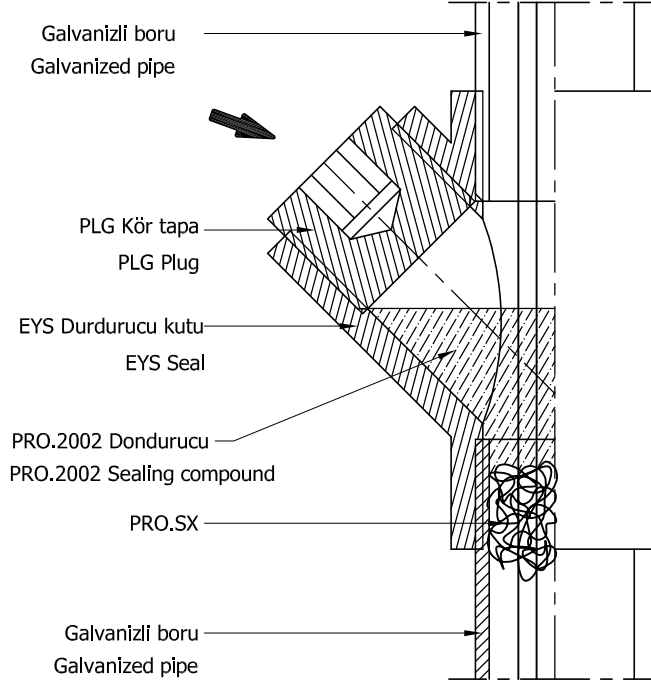
Kelepçe Pipe Clip	Ağırlık (kg) Weight	ØA	Ölçüler Dimensions (mm)			
			ØB	C	D	E
GF.1	0.17	R 1/2"	7	27	30	5
GF.2	0.21	R 3/4"	7	30	33	60
GF.3	0.25	R 1"	7	42	45	85
GF.4	0.29	R 1 1/4"	9	50	55	100
GF.5	0.33	R 1 1/2"	9	55	6	115
GF.6	0.37	R 2"	11	70	7	135
GF.7	0.41	R 2 1/2"	11	80	95	160
GF.8	0.45	R 3"	11	85	105	175

Malzeme/Material: Alüminyum ETIAL 140

DONDURUCU KARIŞIM

SEALING COMPOUND

PRO 2002



Durdurucu Dondurma Detayı
Sealing Detail for Seal

PRO.2002 DONDURUCU KARIŞIM

KULLANIM ve UYGULAMA TALİMATI

PRO.2002 Dondurucu karışım gaz, buhar ve alev geçirgenliğini sınırlar ve herhangi bir şekilde bu maddelerin sızmasını engeller.

Dondurulması istenen EYS,EZS,EYD v.s. gibi durdurucuların montajı ve içinden geçecek kabloların çekilmesinden sonra PRO.SX Amyant ipliği şeklindeki okla işaretli yerden sıkıca yerleştirilir.

Toz ve sıvı bileşen belirtilen oranlarda karıştırılıp akıcı kıvamda bir karışım elde edilerek kullanılır. Kıvamlı karışım EYS, EZS, EYD içine akıtılıp çubuk ile karıştırılır.

KARIŞIM ORANI

1 Ölçü toz
1/2 ölçü sıvı

DONMA SÜRESİ

(30°C'de) 30 dk. - (10°C'de) 90 dk.

1 Kgr. PRO.2002 ile

2	Adet	EYS - EZS - EYD 6
5	Adet	EYS - EZS - EYD 3
6	Adet	EYS - EZS - EYD 2

dondurulabilir.

PRO.2002 SEALING COMPOUND

USE AND APPLICATION DIRECTIONS

PRO.2002 Sealing compound is being used to restrict and stop the leakage of vapor and exploded hot gases between chambers in classified areas.

Following the completion of all wiring going through the sealing elements like EYS, EZS, EYD and similars, in the piping system, carefully plug the sealing element with PRO.SX fibers from the inlet indicated to prevent the leak and drain of the sealing compound.

Mix the powder and liquid with theirs ratios. viscosity sufficient enough for pouring into the sealing element, up to the threads and mix with a wooden stick to diminish air bubbles.

REGULAR MIXING RATIO

1 measure dust
1/2 measure liquid

HARDENING TIME

(At 30°C) 30 min. - (At 10°C) 90 min.

The number of sealing elements you may seal with

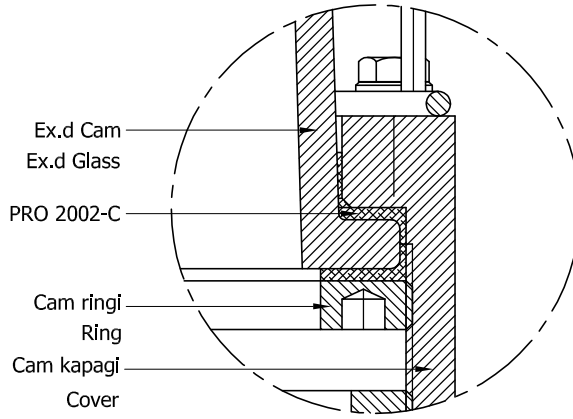
1 Kg. of mixture is:

EYS - EZS - EYD 6	- 2 units
EYS - EZS - EYD 3	- 5 units
EYS - EZS - EYD 2	- 6 units

DONDURUCU KARIŞIM

SEALING COMPOUND

PRO 2002-C



Glob Cam Dondurma Detayı
Sealing Deail for Glass Globe

PRO.2002-C DONDURUCU KARIŞIM

KULLANIM ve UYGULAMA TALİMATI

Bu kompund, patlamaya mukavim Ex.d camların cam kapağına ringli sistem dondurulmasında kullanılır.

Toz ve sıvı bileşen belirtilen oranlarda karıştırılarak macun kıvamında bir karışım elde edilerek kullanılır.

Kurumaya yüz tutmuş,iyice macunlaşmış karışım içine malzeme ilave edilerek çoğaltılması mümkün değildir.

KARIŞIM ORANI

1 Ölçü toz
1/4 ölçü sıvı

DONMA SÜRESİ

(30°C'de) 30 dk. - (10°C'de) 90 dk.

PRO.2002-C COMPOUND

USE AND APPLICATION DIRECTIONS

This compound is used for adhesive sealing of the Ex.d glass globes to the lighting fixture covers with glass tightening rings.

Prepare a soft paste mixture and apply on the adhering surfaces. Place and press the globe on the paste spread and tighten with the ring.

It will not be possible to soften the hardened paste and should be disposed, therefore, prepare sufficient amounts to use.

REGULAR MIXING RATIO

1 measure of dust
1/4 measure of liquid

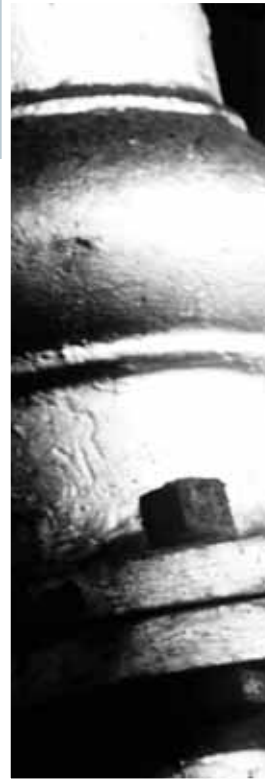
HARDENING TIME

(At 30°C) 30 min. - (At 10°C) 90 min.



GRUP I ANTI-GRIZU

GROUP I FIREDAMP



PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011
EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



ANTİGRİZU BAĞLANTI KUTULARI

FIRE DAMP JUNCTION BOXES

AGUFX

Sınıflandırma / Classification

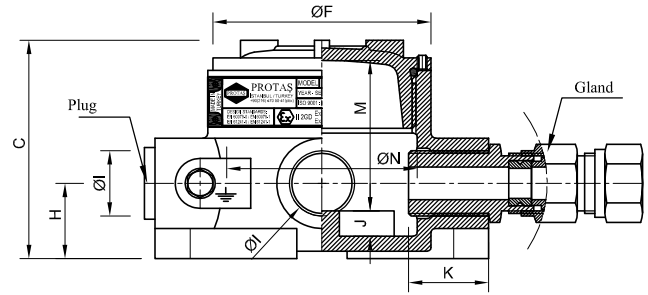
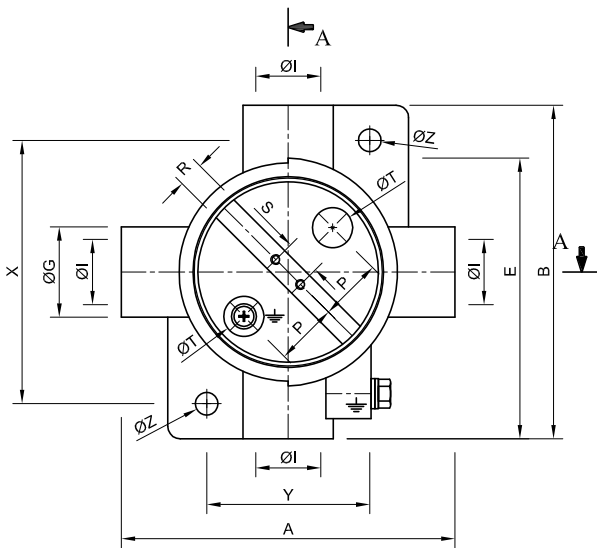
IM2 Ex d I Mb

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

SCA 13 ATEX 057X / ALSz (M) 11.0244 / TSE 14.31.35-EX/173

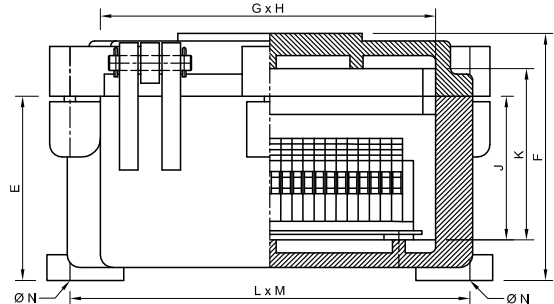
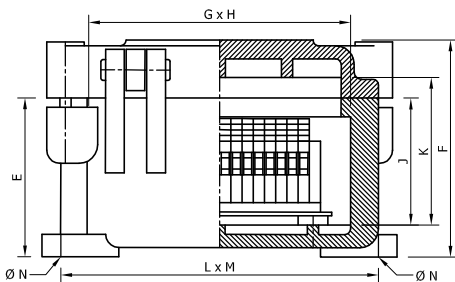
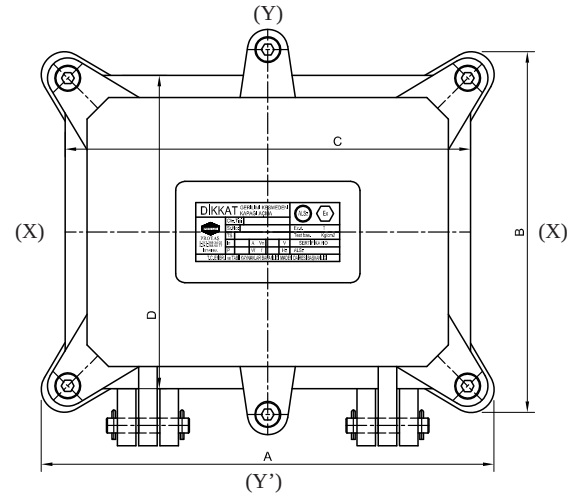
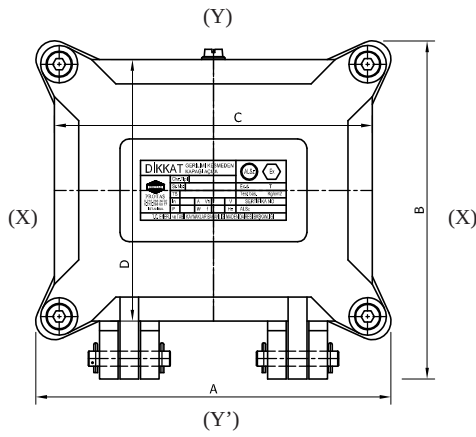


SECTION A-A

Model	Ölçüler / Dimensions (mm)																			Topraklama Earthing		
	A	B	C	E	ØF	ØG	H	ØI	J	Kmax.	M	ØN	P	R	S	ØT	X	Y	ØZ	İç In	Dış Out	
AGUFX.26	133	133	87	112	87	36	30	3/4"	10	35	60	76	25	10	22	M3	16	105	65	9	M4	M6

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

Ortalama ağırlık: 3 kg / Approximate weight: 3 kg



AGJB.01

AGJB.02, .03

Model	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)											Montaj / Installation		
		Dış / Outer						İç / Inner							
		A	B	C	D	E	F	G	H	J	K	L	M	ØN	
AGJB.01	9.50	190	181	170	140	87	117	110	140	63	71	118	168	7	
AGJB.02	16.50	242	226	170	220	100	134	130	180	81	93	170	220	9	
AGJB.03	25.00	303	264	210	280	120	170	170	240	98	118	208	278	9	

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

Model	Yüzeylere Açılacak Max. Delik Sayısı / Max. Hole For Surfaces																		
	X Yüzü / Side X						Y Yüzü / Side Y						Y' Yüzü / Side Y'						
MERTIC	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	
NPT	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
AGJB.01	2	2	-	-	-	-	3	2	-	-	-	-	1	1	-	-	-	-	
AGJB.02	8	4	3	3	2	1	12	6	3	3	2	2	8	3	2	2	-	-	
AGJB.03	15	11	6	6	2	2	20	13	7	5	3	2	16	13	5	3	3	-	

ANTİGRİZU DİYAFON & TELLİ BUTON

FIRE DAMP INTERCOM & WIRED SWITCH

AGJB

Sınıflandırma / Classification

Ex d I T6 IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35 - EX / 173



AGJB.DT-1

Tek butonlu diyafon terminali
Intercom, one button



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20
Ortalama ağırlık: 9.70 kg / Approximate weight: 9.70 kg

AGJB.DT-2

Çift butonlu diyafon terminali
Intercom, two button



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20
Ortalama ağırlık: 9.90 kg / Approximate weight: 9.90 kg

AGJB.TSA

Acil Stop butonlu telli switch
Wire-switch with emergency button



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20
Ortalama ağırlık: 9.90 kg / Approximate weight: 9.90 kg

AGJB.TS

Telli switch
Wire-switch



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20
Ortalama ağırlık: 9.70 kg / Approximate weight: 9.70 kg

ANTİGRIZU BAĞLANTI KUTULARI

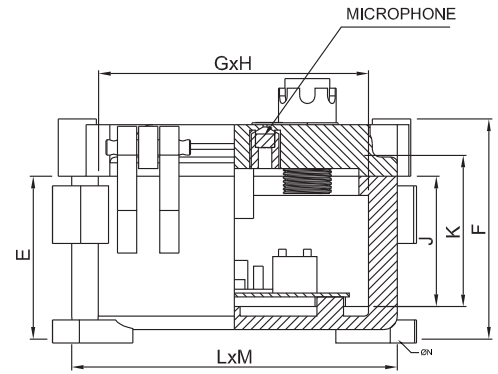
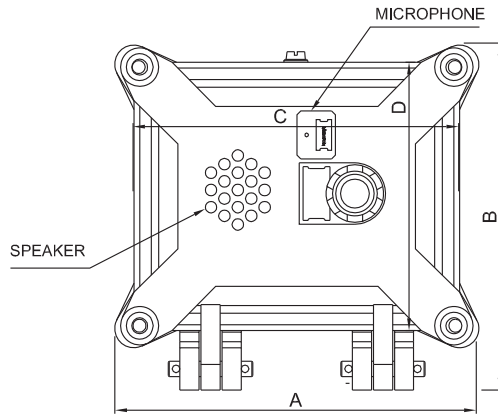
FIRE DAMP JUNCTION BOXES



AGJB

AGJB.01-BK

Bas-Konuş
Push to talk



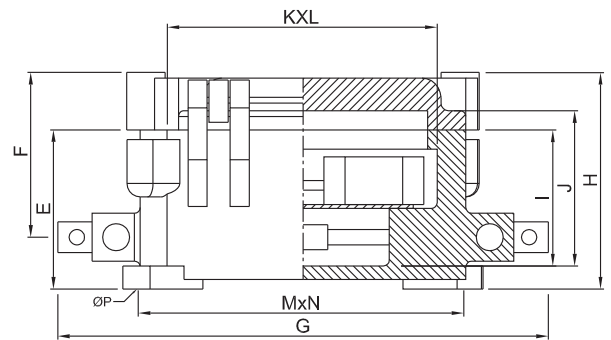
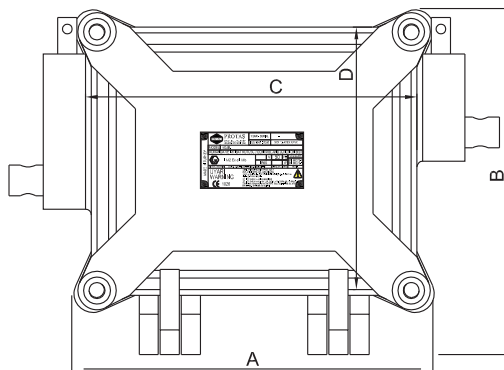
Model	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)												
		Dış / Outer						İç / Inner				Montaj / Installation		
		A	B	C	D	E	F	G	H	J	K	L	M	ØN
AGJB.01-BK	9.50	190	181	170	140	87	117	110	140	63	71	118	168	7

M20x1.5 (1/2")

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

AGJB.01-KTS

Kilitli telli switch
Wired switch with lock



Model	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)														
		Dış / Outer							İç / Inner				Montaj / Installation			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	ØP
AGJB.01-KTS	10.50	190	181	170	140	83	86	256	113	71	81	110	140	118	168	7

M20x1.5 (1/2")

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

ANTİGRİZU BAĞLANTI KUTULARI

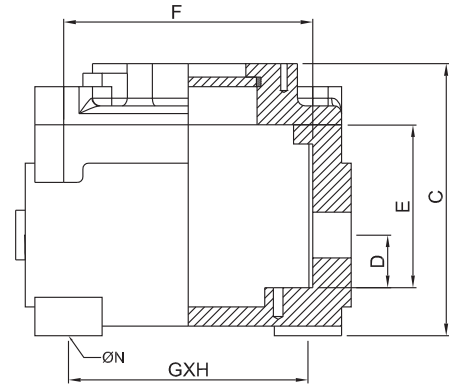
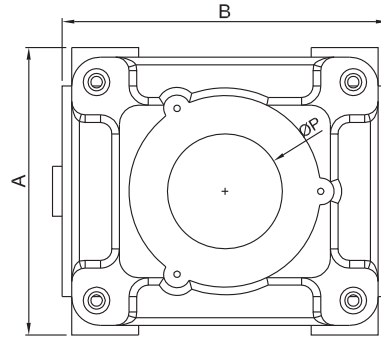
FIRE DAMP JUNCTION BOXES

AGJB



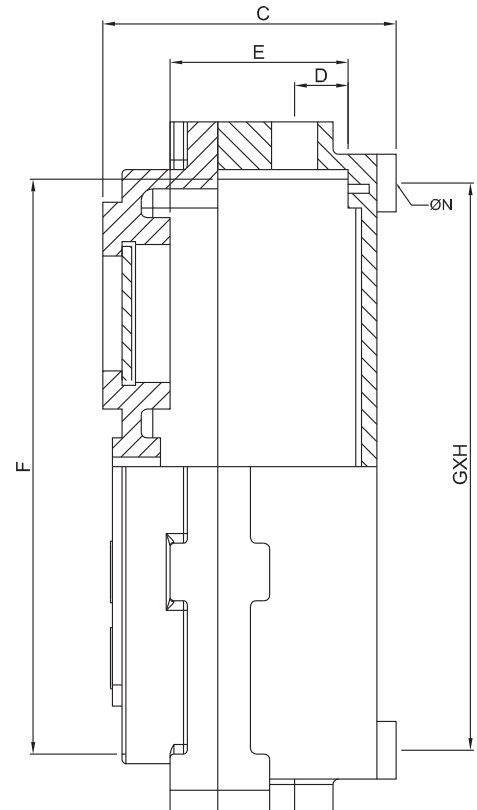
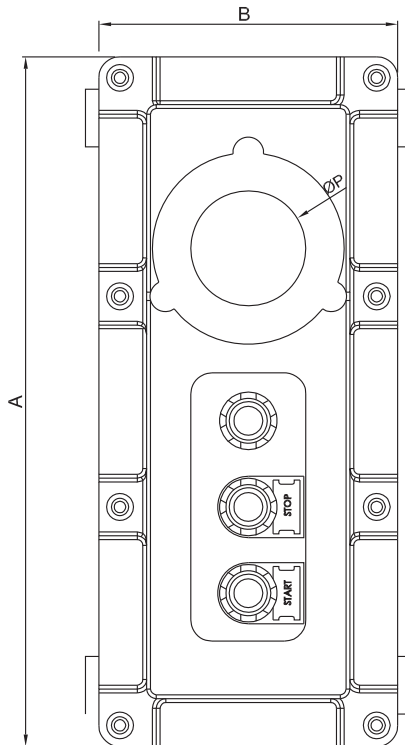
AGJB.M-C0

Voltmetre ve Ampermetre kutusu
Voltmeter and Ammeter boxes



AGJB.MA-C

Voltmetre ve Ampermetre kutusu
ve buton kombinasyonu
Voltmeter and Ammeter boxes
and selection button



Model	Ağırlık (kg) Weight	Ölçüler Dimensions (mm)									
		Dış / Outer			İç / Inner			Montaj / Installation			Glass
		A	B	C	D	E	F	G	H	ØN	ØP
AGJB.M-C0	6.50	150	170	142	28	85	130	130	135	9	60
AGJB.MA-C	15.50	360	156	148	28	93	300	146	296	9	60

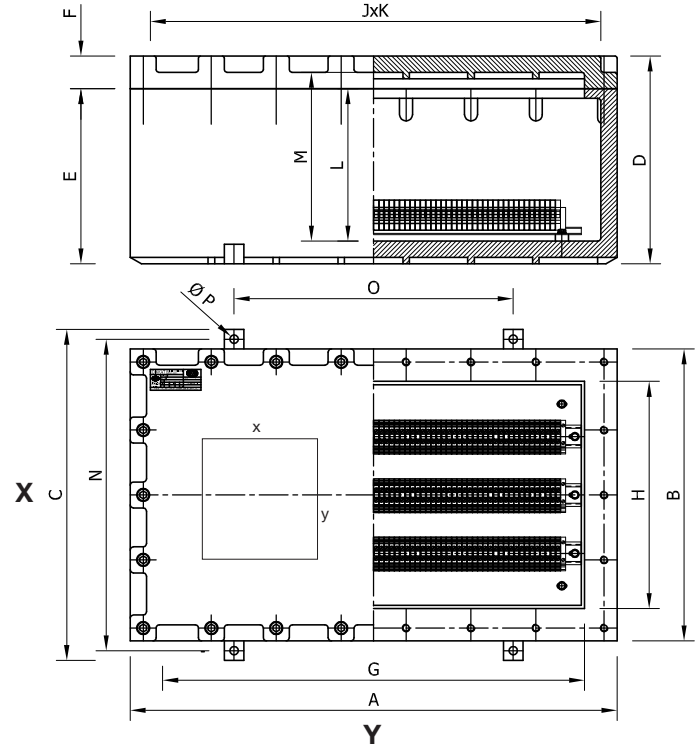
M25x1.5 (3/4")

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

ANTİGRİZU BAĞLANTI KUTULARI

FIRE DAMP JUNCTION BOXES

AGJB



Gövde Tipi Type	Ağırlık (kg) Weight	Ölçüler / Dimensions (mm)																
		Dış / Outside						İç / Inside						Montaj / Montage			Cam / Glass	
		A	B	C	D	E	F	G	H	J	K	L	M	N	O	Ø P	x	y
AGJB.04	40.00	450	370	430	240	200	40	350	270	340	220	175	190	400	340	13	-	-
AGJB.04-C																	150	170
AGJB.05	70.00	750	450	510	320	270	50	650	350	700	400	235	250	480	430	13	-	-
AGJB.05-C																	170	220

Model	Yüzeylere Açılabilir Maksimum Delik Adetleri / Max. Hole For Surface																
	X Yüzü / Side - X								Y Yüzü / Side - Y								
	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*	A/B*
NPT	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	
METRIC	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M60x1.5	M75x1.5	M90x2	
AGJB.04	14/7	10/7	8/5	4/3	2/2	2/1	1/1	-	18/9	12/7	10/7	5/3	4/2	3/2	2/1	-	
AGJB.04-C	14/7	10/7	8/5	4/3	2/2	2/1	1/1	-	18/9	12/7	10/7	5/3	4/2	3/2	2/1	-	
AGJB.05	16/9	14/9	10/7	6/3	4/2	3/1	2/1	1/1	24/13	22/11	20/9	10/5	8/3	5/3	3/1	2/1	
AGJB.05-C	16/9	14/9	10/7	6/3	4/2	3/1	2/1	1/1	24/13	22/11	20/9	10/5	8/3	5/3	3/1	2/1	

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

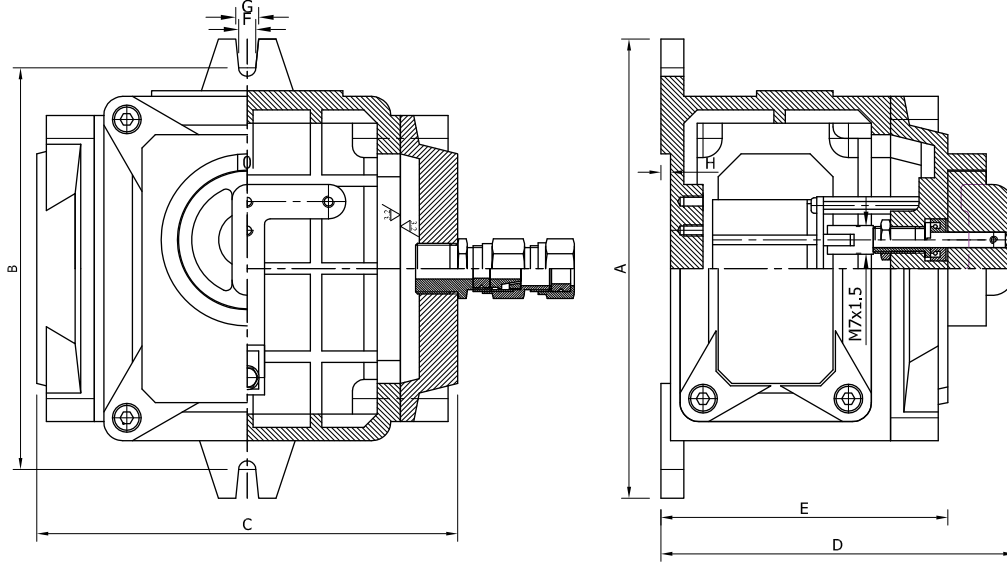
Uygulamalara bağılı olarak buton, sinyal, pako, kompakt şalter, potansiyometre dahil edilebilir.
Button, signal, rotary switch, compact switch, potentiometer can be included upon request.

*A RAKOR Delik Kombinasyonu / ENTRY Hole Combination
*B UNYS Delik Kombinasyonu / UNYS Hole Combination

ANTİGRİZU ELEKTRİK ANAHTARLARI

FIREDAMP ELECTRIC SWITCHES

AGA



Model	A	B	C	D	E	F	G	H
AGA.21	240	210	220	197	162	9	12	5
AGA.22								
AGA.23								
AGA.21-A								
AGA.22-A								
AGA.21-K								
AGA.21-V								
AGA.21-Y								
AGA.31								
AGA.32								
AGA.33								
AGA.43								
AGA.31-V								
AGA.31-A								
AGA.32-A								
AGA.33-S								

Ölçüler mm'dir. / Dimensions in mm.

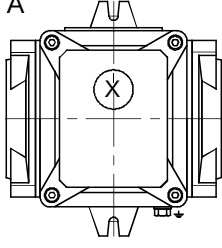
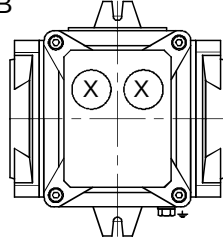
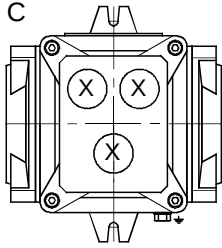
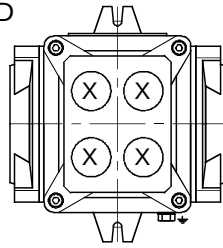
Model	Ağırlık (kg) Weight	Güç / Wattage	Açıklama / Description	Giriş / Entries	
				NPT	METRIC
AGA.21	15.50	1x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.22	15.50	2x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.23	15.50	3x20A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.31	15.50	1x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.32	15.50	2x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.33	15.50	3x32A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.43	15.50	3x40A	Aç/Kapa - On/Off	3/4"	M25x1.5
AGA.21-A	15.50	1x20A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
AGA.22-A	15.50	2x20A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
AGA.31-A	15.50	1x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
AGA.32-A	15.50	2x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
AGA.33-A	15.50	3x32A	Kutup Değiştirici - Changeover	3/4"	M25x1.5
AGA.33-S	15.50	3x32A	Motor sağ-sol - Motor right-left	3/4"	M25x1.5
AGA.21-K	15.50	1x20A	Komütatör - Gang	3/4"	M25x1.5
AGA.21-V	15.50	1x20A	Vaviyen - 2 Step	3/4"	M25x1.5
AGA.31-V	15.50	1x32A	Vaviyen - 2 Step	3/4"	M25x1.5
AGA.21-Y	15.50	1x20A	Yaylı Kutup Değiştirici Changeover with Return	3/4"	M25x1.5

Malzeme: Pisk döküm GG20 / Material: Cast Iron GG20

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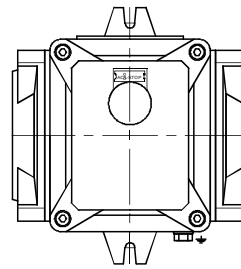


AGBK NAMING CONVENTION/ AGBK İSİMLENDİRME

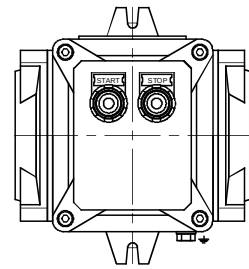
İSİMLENDİRME / APPLICATION	
A  TEK BUTONLU / ONE BUTTON AGBK.X 0,1,2,3,3A,4,5	B  ÇİFT BUTONLU / TWO BUTTONS AGBK.XX 1,2,3,3A,4,5 1,2,3,3A,4,5
C  ÜÇ BUTONLU / THREE BUTTONS AGBK.XXX 0,1,2,3,3A,4,5 1,2,3,3A,4,5 1,2,3,3A,4,5	D  DÖRT BUTONLU / FOUR BUTTONS AGBK.XXXX 1,2,3,3A,4,5 1,2,3,3A,4,5 1,2,3,3A,4,5 1,2,3,3A,4,5
Kumanda Kutusu Model Seçenekleri / Application Options for Control Box	
0 Potansiyometre / Potentiometer	TIP / TYPE
1 Start Butonu / Start Button	ŞEKİL / FIGURE
2 Stop Butonu / Stop Button	
3 Kilitli Acil Stop Butonu / Emergency Stop Button Without Lock	AGBK .X.....A
3A Kilitli Acil Stop Butonu / Emergency Stop Button With Lock	AGBK .XX.....B
4 Kırmızı Sinyal / Red Signal	AGBK .XXX.....C
5 Yeşil Sinyal / Green Signal	AGBK .XXXX.....D

ÖRNEKLER / EXAMPLES

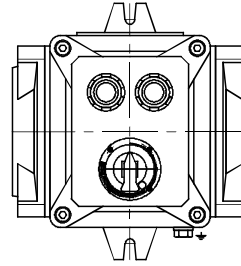
AGBK.3

Kilitsiz Acil Stop Butonu /
Emergency Stop Button
Without Lock

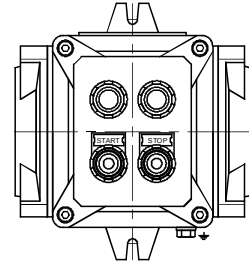
AGBK.12

Start Butonu, Stop Butonu /
Start Button, Stop Button

AGBK.540

Yeşil Sinyal, Kırmızı
Sinyal, Potansiyometre /
Green Signal, Red
Signal, Potentiometer

AGBK.5412

Yeşil Sinyal, Kırmızı Sinyal,
Start Butonu, Stop Butonu /
Green Signal, Red Signal,
Start Button, Stop Button

ANTİGRİZU KUMANDA KUTULARI

FIREDAMP CONTROL BOXES

AGBK

Sınıflandırma / Classification

I M2 Ex d I Mb T 47°C

Standartlar / Standards

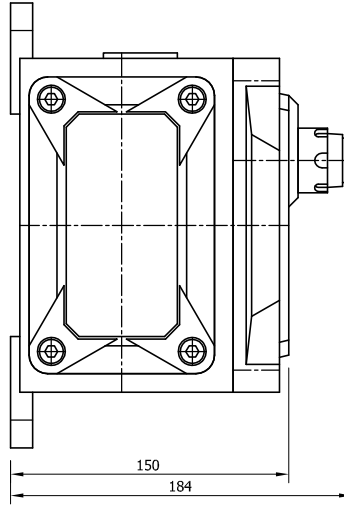
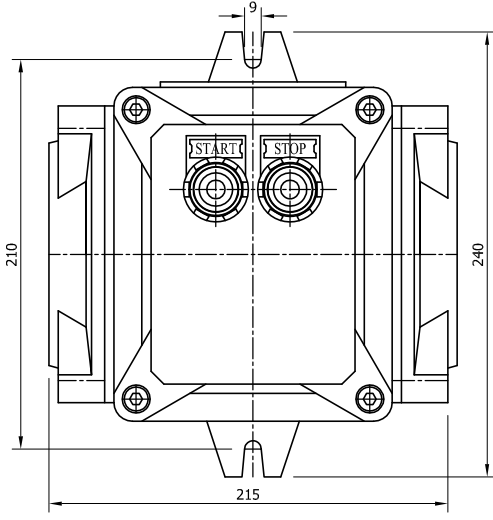
EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35 - EX / 173 - DEKRA 14 ATEX 0009X



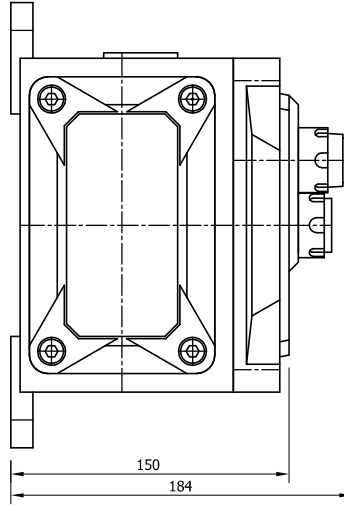
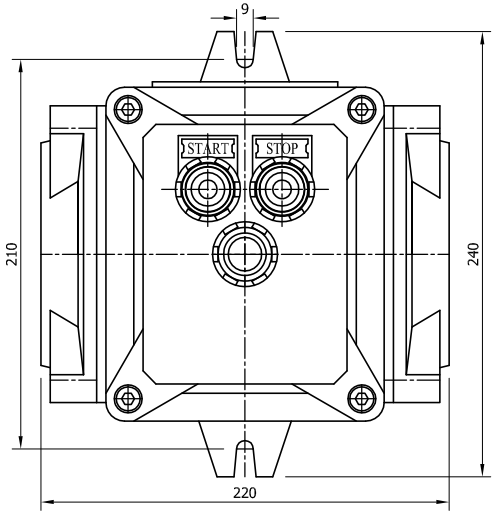
AGBK.12



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20

Ortalama ağırlık: 15.50 kg / Approximate weight: 15.50 kg

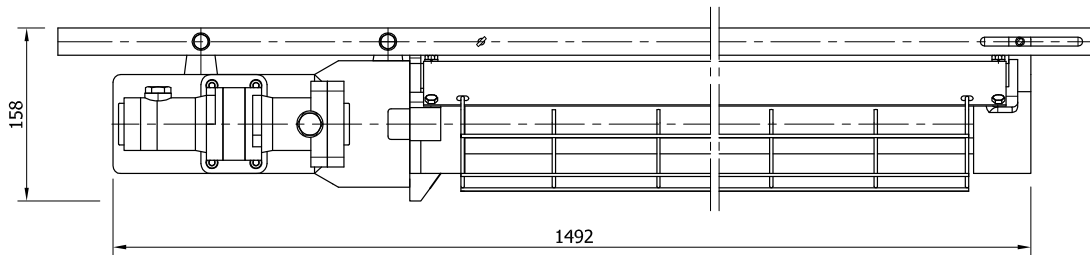
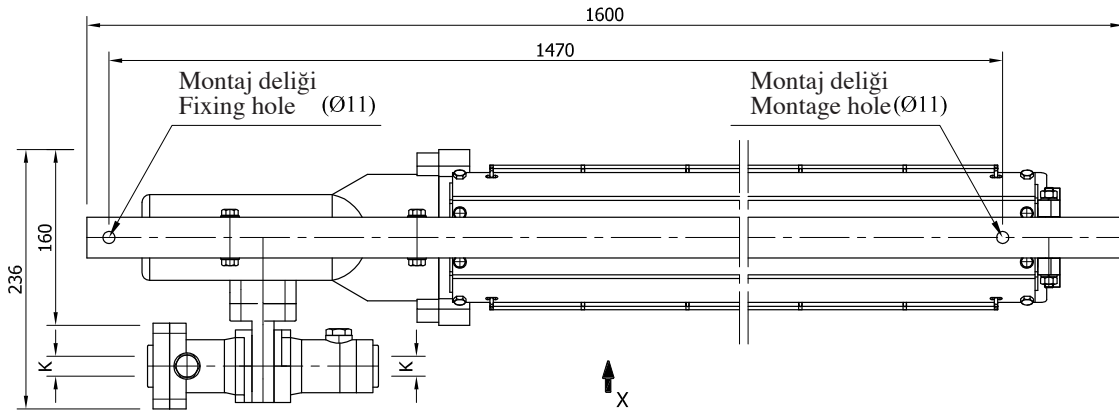
AGBK.123



Malzeme: Pik döküm GG20 / Material: Cast Iron GG20

Ortalama ağırlık: 15.50 kg / Approximate weight: 15.50 kg

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X Yüzü
Side X

220V 50Hz

Fiş körleme kapağı, floresan ara soketi ve epoxy dondurucu dahil değildir
Plug blanking cover, fluorescent spacing socket and epoxy sealing compound excluded

Epoxy dondurucu 6 adet floresan için 1 kg kullanılır
1 kg Epoxy sealing compound for per 6 fluorescent fixture

Fiş körleme kapağı ve floresan ara soketi 6 adet floresan için 1 adet kullanılır
1 Plug blanking cover and 1 fluorescent spacing socket is used at every 6 fluorescent fixture

Malzeme: Pik döküm GG20 temperli Borosilikat camlı
Material: Cast Iron GG20 with tempered borosilicate glass

Model	Ağırlık (kg) Weight	Güç Wattage (W)	Işık Akısı (lümen) Luminaus flux	Renk Sıcaklığı (K) Color Temp.
AGFA.14	22	36	2350	6000
AGFA.14-LED	22	39	4200	6000

ANTİGRİZU AKKOR TELLİ AYDINLATMA ARMATÜRLERİ

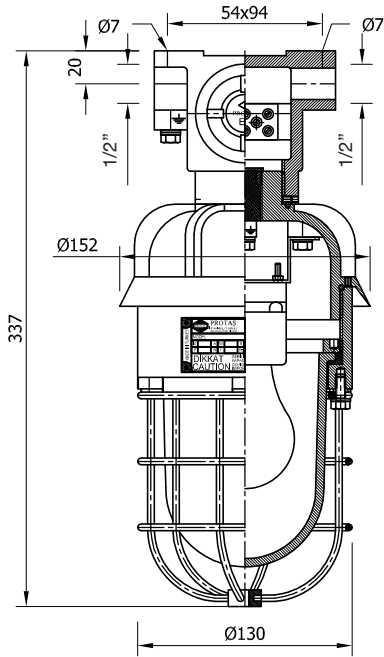
FIRE DAMP INCANDESCENT LIGHTING FIXTURES

AGEV



AGEVB.100

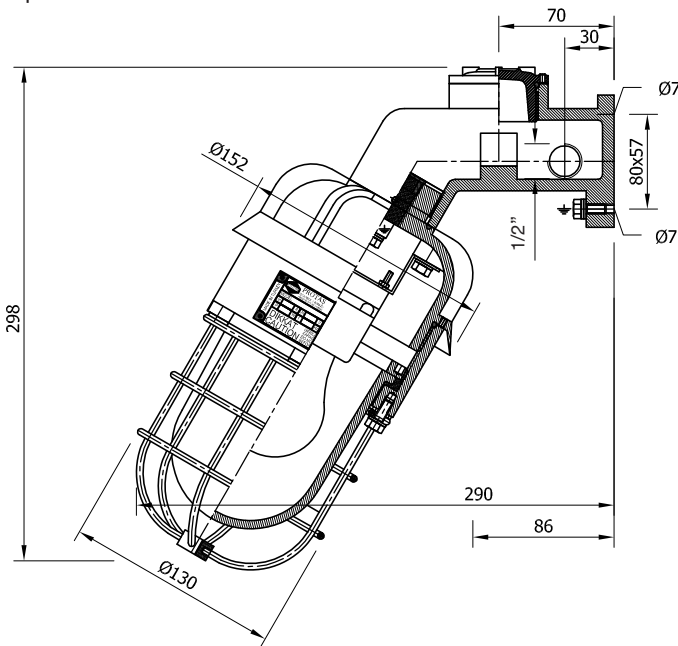
Buatlı Tavan Tipi / Ceiling Mounted (with Junction Box)



Malzeme: Pisk döküm GG20 temperli Borosilikat camlı / Material: Cast Iron GG20 with tempered borosilicate glass
Ortalama ağırlık: 18.00 kg / Approximate weight: 18.00 kg

AGEVJ.100/45°

Duvar Tipi / Wall Mounted



Malzeme: Pisk döküm GG20 temperli Borosilikat camlı / Material: Cast Iron GG20 with tempered borosilicate glass
Ortalama ağırlık: 19.00 kg / Approximate weight: 18.00 kg

www.protas.com.tr

Sınıflandırma / Classification

Ex d I T4 IP 65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

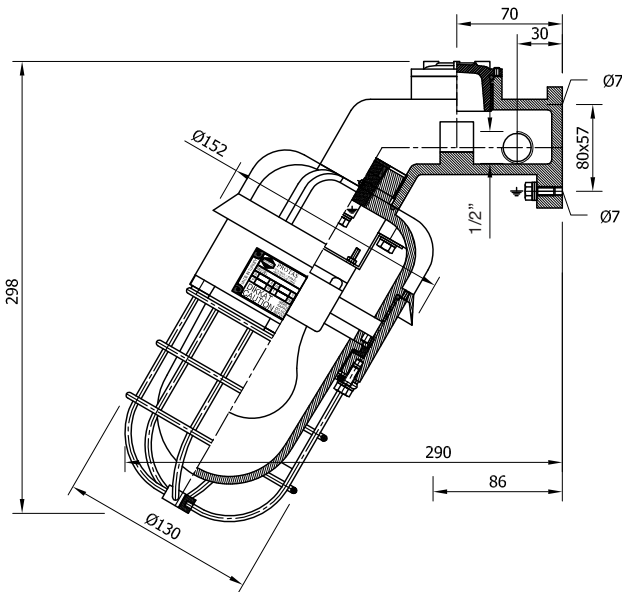
TSE 14.31.35-EX/174 / ALSz (M) 09.0243

ANTİGRİZU İKAZ ARMATÜRLERİ FIREDAMP WARNING BEACONS

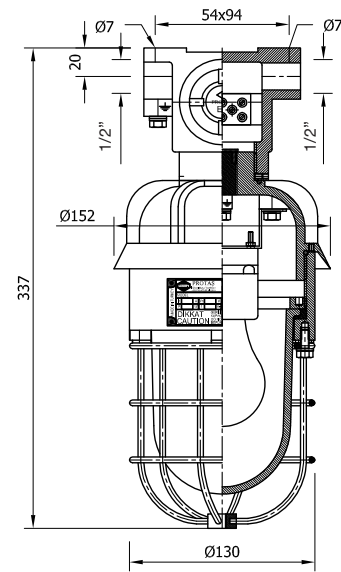
AGEV-LF, -CR



AGEVJ.100/45-LF-CR



AGEVB.100-LF-CR



Model		Renk Color	Max. kablo çapı Max. cable diameter	Ölçüler / Dimensions (mm)								
Seri	Seçenek / Options			Ø A		Ø B	Ø D	E	F	G	H	Ø J
				NPT	METRIC							
AGEVB.100	-LF12 12V AC/DC LED Flaşör / Flashing -LF24 24V AC/DC LED Flaşör / Flashing -LF220 220V LED Flaşör / Flashing	/K Kırmızı /M Mavi /S Sarı	Ø 14	2 x 1/2"	2 x M20x1.5	130	152	292	-	-	-	-
AGEVJ.100/45°	-CR12 12V AC/DC Çakar/Strobe -CR24 24V AC/DC Çakar/Strobe -CR220 220V Çakar/Strobe	/Y Yeşil /Z Zelen				130	152	337	20	54	94	7

Malzeme: Pk döküm GG20 temperli Borosilikat camlı / Material: Cast Iron GG20 with tempered borosilicate glass

Ortalama ağırlık: 18.00 kg / Approximate weight: 18.00 kg

www.protas.com.tr



PROJE MÜHENDİSLİK İNŞAAT
ELEKTRİK SANAYİ ve TİCARET AŞ

FTZU 09 ATEX Q 011

EN ISO/IEC 80079-34: 2011
Üretim Kalite Sistemi



79

ANTİGRİZU TUŞLU TELEFON FIREDAMP TELEPHONE SET

AGTT.01

Sınıflandırma / Classification

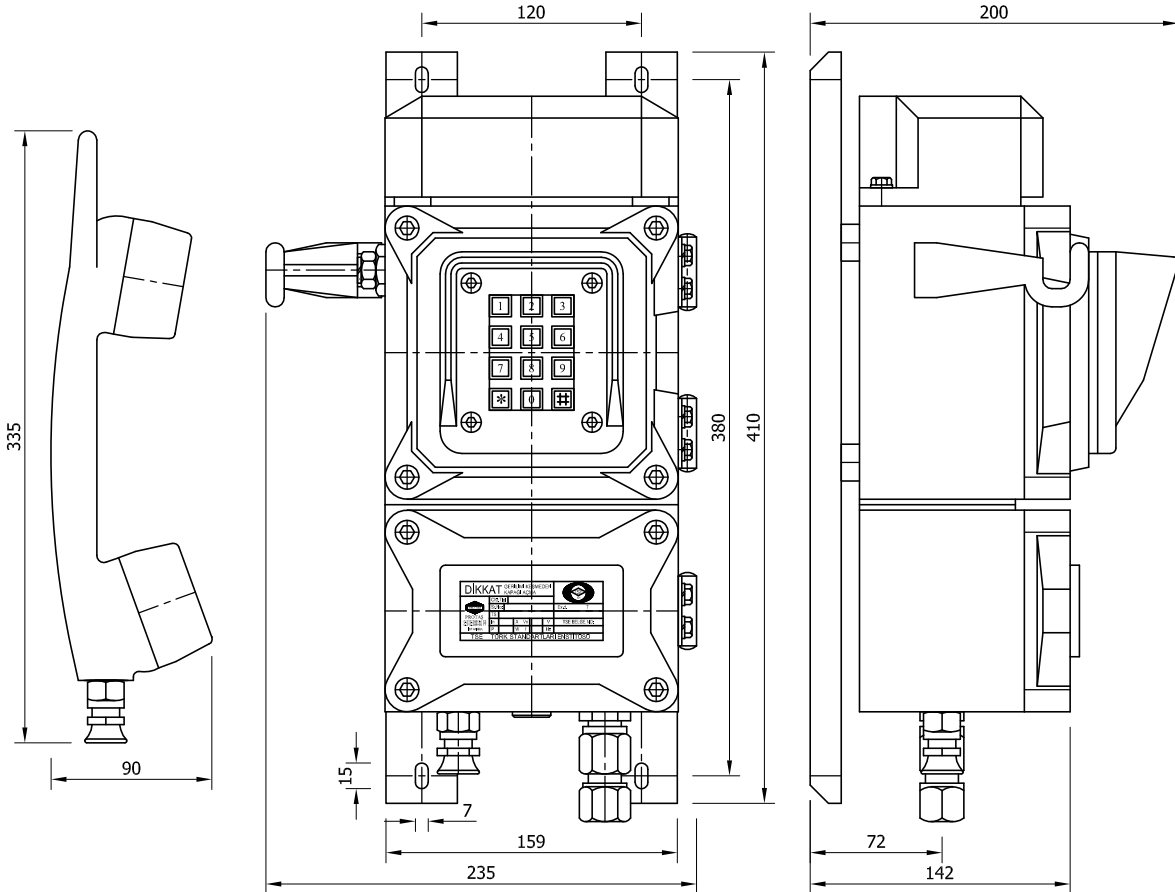
Ex d Iia T6 IP 54

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

TSE 14.31.35 - EX / 176



Piezoelektrik korna gerilimi / bell voltage	: 4 - 6 V (16 - 25 Hz)
Zener sınıfı / Class of zener barrier	: 6 V - 180 Ohm.
Kulaklık, Mikrofon tipi / Earphone, Microphone	: Dinamik / Dynamic
Malzeme / Material	: GG 20
Ağırlık / Weight	: 20 Kgr.
Ses şiddeti / Sound level	: 80-90 dB

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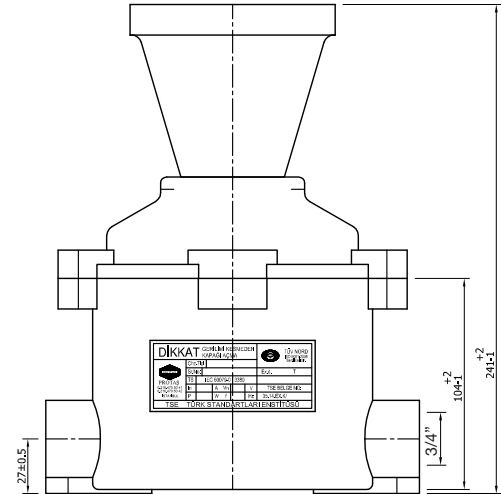
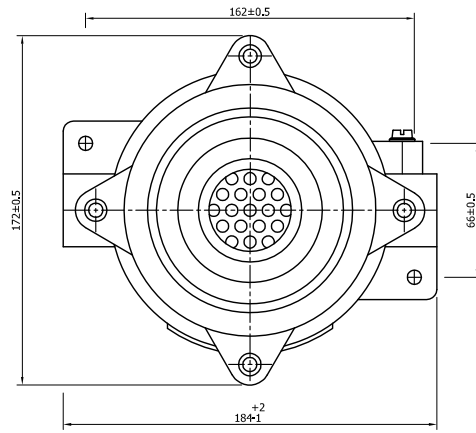
ANTİGRİZÜ SİREN and KORNA

FIREDAMP SIREN and HORN



ELEKTRONİK SİREN / ELECTRONIC SIREN **AGSR**

220Vac
12V AC-DC
24V AC-DC
90 dB
Ağırlık/Weight: 8.50 kg

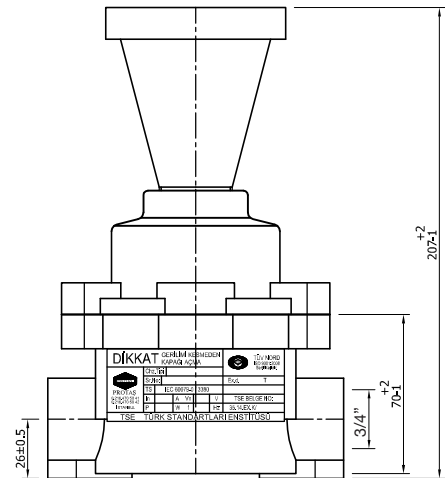
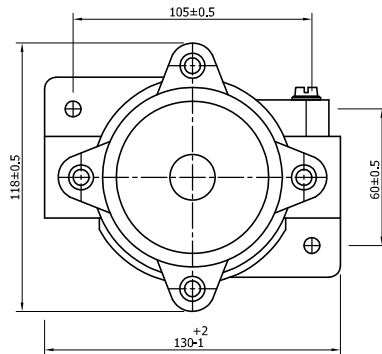


Ölçüler mm'dir. / Dimensions in mm.

Malzeme: Pk döküm GG20 / Material: Cast Iron GG20

MEKANİK KORNA / MECHANICAL HORN **AGKR**

220Vac
90 dB
Ağırlık/Weight: 5.18 kg



Ölçüler mm'dir. / Dimensions in mm.

Malzeme: Pk döküm GG20 / Material: Cast Iron GG20

ANTİGRİZU KABLO RAKORLARI

FIREDAMP CABLE GLANDS

E1WAS



Sınıflandırma / Classification

I M2 Ex d I Mb T6 - IP65

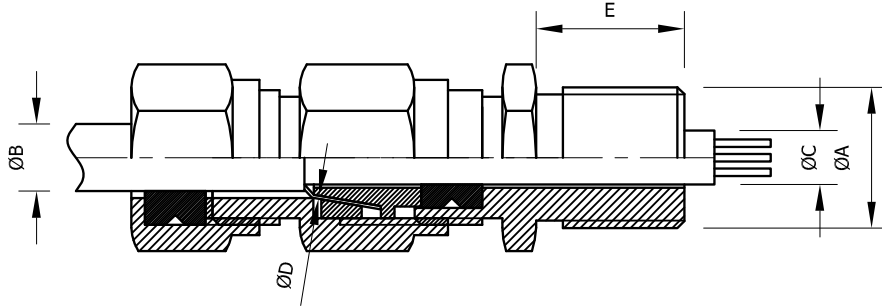
Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

SCA 12 ATEX 02XX / TSE 14.31.35-EX175

ZIRHLI KABLO İÇİN / FOR ARMoured CABLE



Rakor Tipi Gland Type	Ağırlık (kg) Weight	A		Bmax	Cmax	Dmax	E	Anahtar Ölçüsü Wrench Size
		NPT	METRIC					
E1WAS.1-A	0.33	1/2"	M20x1.5	10	8	1.5	22	AA 24
E1WAS.1-B	0.35	1/2"	M20x1.5	12	8	1.5	22	AA 24
E1WAS.1-C	0.38	1/2"	M20x1.5	14	10	1.5	22	AA 24
E1WAS.2-A	0.41	3/4"	M25x1.5	16	10	2.0	22	AA 27
E1WAS.2-B	0.44	3/4"	M25x1.5	18	12	2.0	22	AA 27
E1WAS.2-C	0.47	3/4"	M25x1.5	19	12	2.0	22	AA 30
E1WAS.2-D	0.48	3/4"	M25x1.5	22	14	2.0	22	AA 35
E1WAS.3-A	0.52	1"	M32x1.5	24	16	2.5	28	AA 35
E1WAS.3-B	0.55	1"	M32x1.5	26	16	2.5	28	AA 36
E1WAS.3-C	0.57	1"	M32x1.5	28	18	2.5	28	AA 36
E1WAS.3-D	0.58	1"	M32x1.5	30	20	3.0	28	AA 40
E1WAS.4-A	0.84	1 1/4"	M40x1.5	30	25	3.0	28	AA 45
E1WAS.4-B	0.91	1 1/4"	M40x1.5	35	28	3.0	28	AA 45
E1WAS.5-A	1.17	1 1/2"	M50x1.5	38	30	3.0	28	AA 50
E1WAS.5-B	1.24	1 1/2"	M50x1.5	42	35	3.0	28	AA 55
E1WAS.6-A	1.36	2"	M60x1.5	45	38	3.0	28	AA 60
E1WAS.6-B	1.41	2"	M60x1.5	50	42	3.0	28	AA 65
E1WAS.7-A	2.69	2 1/2"	M75x1.5	55	45	3.5	31	AA 80
E1WAS.7-B	2.78	2 1/2"	M75x1.5	62	50	3.5	31	AA 80
E1WAS.8-A	3.27	3"	M90x2	65	55	3.5	31	AA 95
E1WAS.8-B	3.32	3"	M90x2	70	60	3.5	31	AA 95
E1WAS.8-C	3.38	3"	M90x2	75	65	3.5	31	AA 95

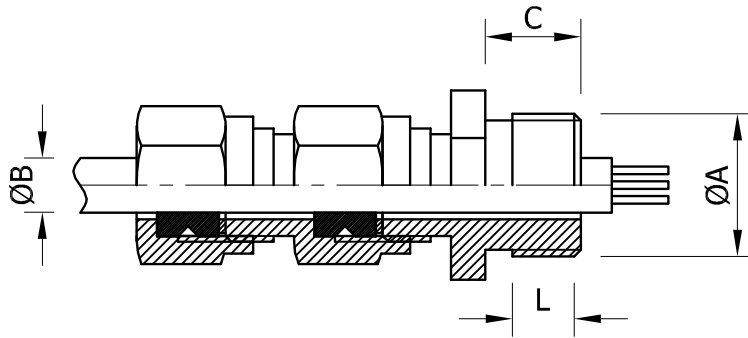
Ölçüler mm'dir. / Dimensions in mm.

Malzeme : Piring / Material: Brass

Kaplama/Coating: Sarı - Çinko (Beyaz) - Nikel / Brass (Yellow) - Nickel Plated - Zinc Coated (White)



FOR UNARMoured CABLE / ZIRHSIZ KABLO İÇİN



Rakor Tipi Gland Type	Ağırlık (kg) Weight	A		Bmax	Cmax	Anahtar Ölçüsü Wrench Size
		NPT	METRIC			
PCNN.1-A	0.21	1/2"	M20x1.5	8	16	AA 20-24
PCNN.1-B	0.22	1/2"	M20x1.5	10	16	AA 24
PCNN.1-C	0.23	1/2"	M20x1.5	12	16	AA 24
PCNN.1-D	0.24	1/2"	M20x1.5	14	16	AA 24
PCNN.2-A	0.29	3/4"	M25x1.5	14	16	AA 27
PCNN.2-B	0.31	3/4"	M25x1.5	16	16	AA 27
PCNN.2-C	0.33	3/4"	M25x1.5	18	16	AA 30
PCNN.2-D	0.35	3/4"	M25x1.5	19	16	AA 30
PCNN.3-A	0.38	1"	M32x1.5	22	20	AA 35
PCNN.3-B	0.41	1"	M32x1.5	24	20	AA 35
PCNN.3-C	0.46	1"	M32x1.5	26	20	AA 36
PCNN.4-A	0.71	1 1/4"	M40x1.5	28	20	AA 45
PCNN.4-B	0.79	1 1/4"	M40x1.5	30	20	AA 45
PCNN.5-A	1.00	1 1/2"	M50x1.5	35	20	AA 50
PCNN.5-B	1.21	1 1/2"	M50x1.5	38	20	AA 50
PCNN.6-A	1.29	2"	M60x1.5	42	20	AA 60
PCNN.6-B	1.32	2"	M60x1.5	45	20	AA 60
PCNN.6-C	1.37	2"	M60x1.5	50	20	AA 65
PCNN.7-A	2.57	2 1/2"	M75x1.5	55	25	AA 80
PCNN.7-B	2.61	2 1/2"	M75x1.5	62	25	AA 80
PCNN.8-A	2.98	3"	M90x2	65	25	AA 95
PCNN.8-B	3.07	3"	M90x2	70	25	AA 95
PCNN.8-C	3.15	3"	M90x2	75	25	AA 95

Ölçüler mm'dir. / Dimensions in mm.

Malzeme : Pirinç / Material: Brass

Kaplama/Coating: Sarı - Çinko (Beyaz) - Nikel / Brass (Yellow) - Nickel Plated - Zinc Coated (White)

ANTİGRİZÜ KÖR TAPA

FIREDAMP PLUG

PLG

Sınıflandırma / Classification

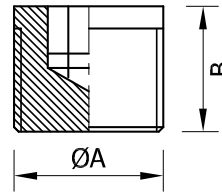
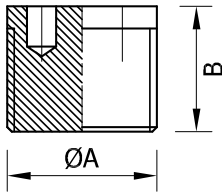
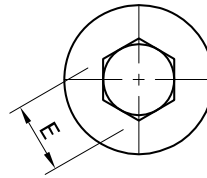
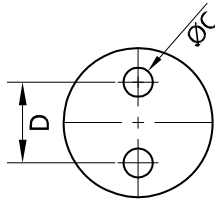
I M2 Ex d I Mb T6 - IP65

Standartlar / Standards

EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

SCA 12 ATEX 02XX / TSE 14.31.35-EX175



Rakor Tipi Gland Type	Ağırlık (gram) Weight	Materyal Material	A		B	Anahtar Ölçüsü Wrench Size	
			NPT	METRIC		C x D	E
PLG.1	51	Çelik-Pirinç Steel - Brazen	1/2"	M20x1.5	22	-	AA 10
PLG.2	72		3/4"	M25x1.5	22	-	AA 10
PLG.3	124	Alüminyum / Aluminum	1"	M32x1.5	28	Ø6,5x18	-
PLG.4	153		1 1/4"	M40x1.5	28	Ø8x26	-
PLG.5	175		1 1/2"	M50x1.5	30	Ø8x28	-
PLG.6	181		2"	M60x1.5	30	Ø9x36	-
PLG.7	195		2 1/2"	M75x1.5	33	Ø11x50	-
PLG.8	255		3"	M90x2	35	Ø11x60	-

Ölçüler mm'dir. / Dimensions in mm.

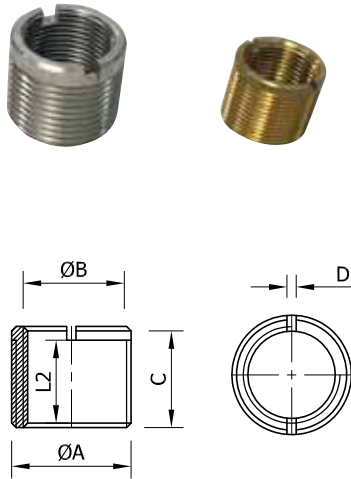
Kaplama/Coating: Sarı - Çinko (Beyaz) - Nikel / Brass (Yellow) - Nickel Plated - Zinc Coated (White)

ANTİGRİZU REDÜKSİYONLAR

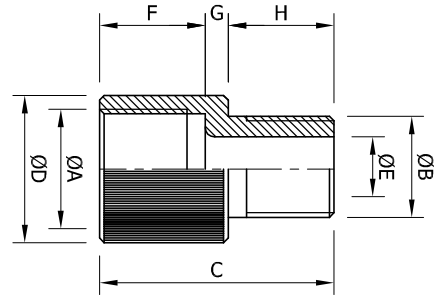
FIREDAMP REDUCTIONS



RE



REB



Tipi	Ağırlık (kg) Weight	A		B		C	D
		NPT	METRIC	NPT	METRIC		
RE.21*	0.05	3/4"	M25x1.5	1/2"	M20x1.5	22	2
RE.31	0.07	1"	M32x1.5	1/2"	M20x1.5	29	5
RE.32	0.07			3/4"	M25x1.5	29	5
RE.41	0.09	1 1/4"	M40x1.5	1/2"	M20x1.5	29	5
RE.42	0.09			3/4"	M25x1.5	29	5
RE.43	0.09	1 1/2"	M50x1.5	1"	M32x1.5	29	5
RE.51	0.10			1/2"	M20x1.5	29	5
RE.52	0.10	1 1/2"	M50x1.5	3/4"	M25x1.5	29	5
RE.53	0.10			1"	M32x1.5	29	5
RE.54	0.10	2"	M60x1.5	1 1/4"	M40x1.5	29	5
RE.61	0.17			1/2"	M20x1.5	29	6
RE.62	0.17	2"	M60x1.5	3/4"	M25x1.5	29	6
RE.63	0.17			1"	M32x1.5	29	6
RE.64	0.17	2 1/2"	M75x2	1 1/4"	M40x1.5	29	6
RE.65	0.17			1 1/2"	M50x1.5	29	6
RE.71	0.26	2 1/2"	M75x2	1/2"	M20x1.5	31	6
RE.72	0.26			3/4"	M25x1.5	31	6
RE.73	0.29	3"	M90x2.5	1"	M32x1.5	31	6
RE.74	0.29			1 1/4"	M40x1.5	31	6
RE.75	0.29	3"	M90x2.5	1 1/2"	M50x1.5	31	6
RE.76	0.29			2"	M60x1.5	31	6
RE.81	0.43	3"	M90x2.5	1/2"	M20x1.5	31	6
RE.82	0.43			3/4"	M25x1.5	31	6
RE.83	0.43	3"	M90x2.5	1"	M32x1.5	31	6
RE.84	0.43			1 1/4"	M40x1.5	31	6
RE.85	0.45	3"	M90x2.5	1 1/2"	M50x1.5	31	6
RE.86	0.45			2"	M60x1.5	31	6
RE.87	0.62	3"	M90x2.5	2 1/2"	M75x1.5	31	6

Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REB.21	0.07	3/4"	M25x1.5	1/2"	M20x1.5	51	32	14	23	5	23
REB.31	0.12	1"	M32x1.5	1/2"	M20x1.5	57	41	14	29	5	23
REB.32	0.13			3/4"	M25x1.5	57	41	19	29	5	23
REB.41	0.19	1 1/4"	M40x1.5	1/2"	M20x1.5	57	50	14	29	5	23
REB.42	0.19			3/4"	M25x1.5	57	50	19	29	5	23
REB.43	0.22	1 1/2"	M50x1.5	1"	M32x1.5	63	50	24	29	5	29
REB.51	0.37			1/2"	M20x1.5	57	58	14	29	5	23
REB.52	0.37	1 1/2"	M50x1.5	3/4"	M25x1.5	57	58	19	29	5	23
REB.53	0.37			1"	M32x1.5	63	58	24	29	5	29
REB.54	0.37	2"	M60x1.5	1 1/4"	M40x1.5	63	58	32	29	5	29
REB.61	0.48			1/2"	M20x1.5	57	69	14	29	5	23
REB.62	0.48	2"	M60x1.5	3/4"	M25x1.5	57	69	19	29	5	23
REB.63	0.48			1"	M32x1.5	63	69	24	29	5	29
REB.64	0.48	2 1/2"	M75x2	1 1/4"	M40x1.5	63	69	32	29	5	29
REB.65	0.48			1 1/2"	M50x1.5	63	69	38	29	5	29
REB.71	0.60	2 1/2"	M75x2	1/2"	M20x1.5	60	87	14	32	5	23
REB.72	0.62			3/4"	M25x1.5	60	87	19	32	5	23
REB.73	0.62	3"	M90x2.5	1"	M32x1.5	66	87	24	32	5	29
REB.74	0.68			1 1/4"	M40x1.5	66	87	32	32	5	29
REB.75	0.69	3"	M90x2.5	1 1/2"	M50x1.5	66	87	38	32	5	29
REB.76	0.69			2"	M60x1.5	66	87	49	32	5	29
REB.81	0.70	3"	M90x2.5	1/2"	M20x1.5	60	100	14	32	5	23
REB.82	0.71			3/4"	M25x1.5	60	100	19	32	5	23
REB.83	0.94	3"	M90x2.5	1"	M32x1.5	66	100	24	32	5	29
REB.84	0.94			1 1/4"	M40x1.5	66	100	32	32	5	29
REB.85	0.94	3"	M90x2.5	1 1/2"	M50x1.5	66	100	38	32	5	29
REB.86	0.94			2"	M60x1.5	66	100	49	32	5	29
REB.87	1.17	3"	M90x2.5	2 1/2"	M75x1.5	69	100	65	32	5	32

* Malzeme: Çelik, RE.21 Piring veya Çelik / Material: Steel, RE21 Steel or Brass
Ölçüler mm'dir. / Dimensions in mm.

ANTİGRİZU REDÜKSİYONLAR

FIREDAMP REDUCTIONS

Sınıflandırma / Classification

I M2 Ex d I Mb T6 - IP65

Standartlar / Standards

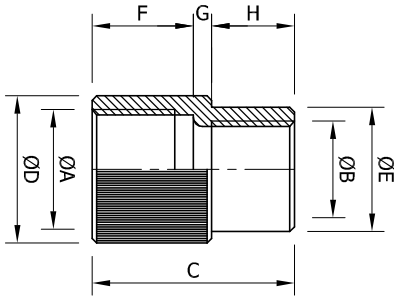
EN 60079-0 / EN 60079-1 / EN 60079-31

Sertifika No. / Certificate No.

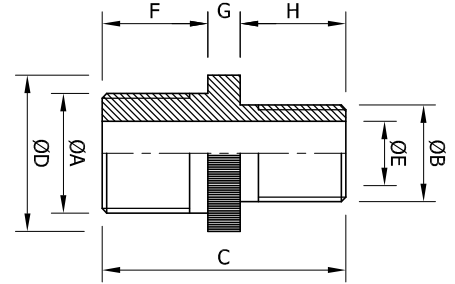
SCA 12 ATEX 02XX / TSE 14.31.35-EX175



REM



REN



Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REM.21	0.11	3/4"	M25x1.5	1/2"	M20x1.5	44	32	27	22	4	18
REM.31	0.23	1"	M32x1.5	1/2"	M20x1.5	50	41	27	27	5	18
REM.32	0.23			3/4"	M25x1.5	50	41	32	27	5	18
REM.41	0.24	1 1/4"	M40x1.5	1/2"	M20x1.5	50	50	27	27	5	18
REM.42	0.24			3/4"	M25x1.5	50	50	32	27	5	18
REM.43	0.25	1 1/2"	M50x1.5	1"	M32x1.5	54	50	41	27	5	22
REM.51	0.44			1/2"	M20x1.5	52	58	27	29	5	18
REM.52	0.44	1 1/2"	M50x1.5	3/4"	M25x1.5	52	58	32	29	5	18
REM.53	0.44			1"	M32x1.5	56	58	41	29	5	22
REM.54	0.44	2"	M60x1.5	1 1/4"	M40x1.5	56	58	50	29	5	22
REM.61	0.49			1/2"	M20x1.5	53	70	27	29	6	18
REM.62	0.49	2"	M60x1.5	3/4"	M25x1.5	53	70	32	29	6	18
REM.63	0.52			1"	M32x1.5	57	70	41	29	6	22
REM.64	0.53	2 1/2"	M75x2	1 1/4"	M40x1.5	57	70	50	29	6	22
REM.65	0.54			1 1/2"	M50x1.5	59	70	58	29	6	24
REM.71	0.75	2 1/2"	M75x2	1/2"	M20x1.5	56	87	27	32	6	18
REM.72	0.75			3/4"	M25x1.5	56	87	32	32	6	18
REM.73	0.75	2 1/2"	M75x2	1"	M32x1.5	60	87	41	32	6	22
REM.74	0.98			1 1/4"	M40x1.5	60	87	50	32	6	22
REM.75	0.98	2"	M60x1.5	1 1/2"	M50x1.5	62	87	58	32	6	24
REM.76	0.98			2"	M60x1.5	62	87	70	32	6	24
REM.81	0.99	3"	M90x2.5	1/2"	M20x1.5	58	100	30	32	8	18
REM.82	0.99			3/4"	M25x1.5	58	100	32	32	8	18
REM.83	0.99	3"	M90x2.5	1"	M32x1.5	62	100	41	32	8	22
REM.84	0.99			1 1/4"	M40x1.5	62	100	50	32	8	22
REM.85	0.99	3"	M90x2.5	1 1/2"	M50x1.5	64	100	58	32	8	24
REM.86	1.20			2"	M60x1.5	64	100	70	32	8	24
REM.87	1.20	2 1/2"	M75x1.5	66	100	87	32	8	26		

Tipi	Ağırlık (kg) Weight	A		B		C	D	E	F	G	H
		NPT	METRIC	NPT	METRIC						
REN.21	0.10	3/4"	M25x1.5	1/2"	M20x1.5	53	34	14	23	7	23
REN.31	0.17	1"	M32x1.5	1/2"	M20x1.5	59	39	14	29	7	23
REN.32	0.17			3/4"	M25x1.5	59	39	19	29	7	23
REN.41	0.26	1 1/4"	M40x1.5	1/2"	M20x1.5	62	49	14	29	10	23
REN.42	0.26			3/4"	M25x1.5	62	49	19	29	10	23
REN.43	0.26	1 1/2"	M50x1.5	1"	M32x1.5	68	49	24	29	10	29
REN.51	0.68			1/2"	M20x1.5	62	54	14	29	10	23
REN.52	0.68			3/4"	M25x1.5	62	54	19	29	10	23
REN.53	0.68			1"	M32x1.5	68	54	24	29	10	29
REN.54	0.68	2"	M60x1.5	1 1/4"	M40x1.5	68	54	32	29	10	29
REN.61	0.69			1/2"	M20x1.5	62	69	14	29	10	23
REN.62	0.69			3/4"	M25x1.5	62	69	19	29	10	23
REN.63	0.71			1"	M32x1.5	68	69	24	29	10	29
REN.64	0.71	2 1/2"	M75x2	1 1/4"	M40x1.5	68	69	32	29	10	29
REN.65	0.71			1 1/2"	M50x1.5	68	69	38	29	10	29
REN.71	0.71			1/2"	M20x1.5	67	84	14	32	12	23
REN.72	0.71			3/4"	M25x1.5	67	84	19	32	12	23
REN.73	0.97	2 1/2"	M75x2	1"	M32x1.5	73	84	24	32	12	29
REN.74	0.97			1 1/4"	M40x1.5	73	84	32	32	12	29
REN.75	0.97			1 1/2"	M50x1.5	73	84	38	32	12	29
REN.76	0.97			2"	M60x1.5	73	84	49	32	12	29
REN.81	1.22	3"	M90x2.5	1/2"	M20x1.5	67	99	14	32	12	23
REN.82	1.22			3/4"	M25x1.5	67	99	19	32	12	23
REN.83	1.22			1"	M32x1.5	73	99	24	32	12	29
REN.84	1.22			1 1/4"	M40x1.5	73	99	32	32	12	29
REN.85	1.22			1 1/2"	M50x1.5	73	99	38	32	12	29
REN.86	1.22			2"	M60x1.5	73	99	49	32	12	29
REN.87	1.48			2 1/2"	M75x1.5	76	99	65	32	12	32

Malzeme: Çelik / Material is Steel
Ölçüler mm'dir. / Dimensions in mm.

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PROTAŞ PROJE MÜHENDİSLİK İNŞAAT ELEKTRİK SANAYİ ve TİCARET A.Ş.

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