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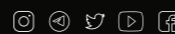
# Explosion Proof



Explosion Proof Catalogue  
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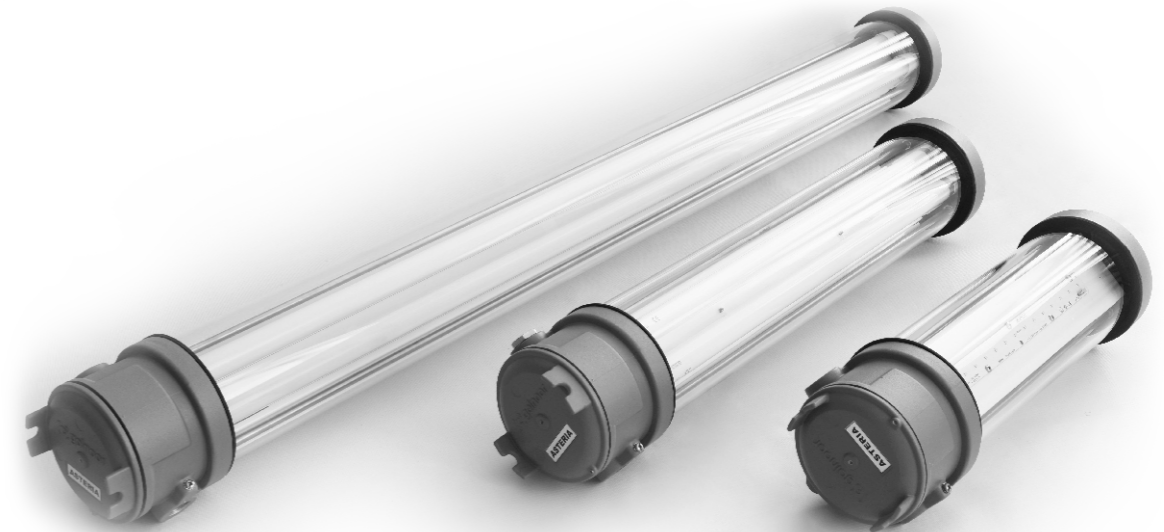
2021-1

golnoorclub



# ***Explosion Proof***

## ***Linear Lighting Fixtures***



**ASTERIA** lighting fixture, Golnoor series of flame proof light fittings, is the ideal solution for lighting in hazardous areas. This product benefits from a robust flameproof enclosure with the light transmitting part made of borosilicate glass and metallic part made of copper free aluminum covered with coatings making it suitable for use in corrosive, high temperature, and humid environments. The fixture is also suitable for outdoor applications due to its high degree of protection, IP67. Maintenance is simplified due to gathering of all electrical components on a single frame moving on guides outwards thus eliminating the need for removal of the whole fixture for servicing. Through-wiring is included as the default feature which along with the movable frame helps to keep connected lightings turned on if one is out of service. Brackets are available for ceiling, pole, and pendant mountings. Using the available auxiliary bracket along with main brackets facilitates and speeds up servicing. In case fixtures are used in locations with high risk of mechanical impacts an external protection and wire guard is available upon request. Various electrical circuits meet the diverse need of lighting industry in hazardous areas. Fluorescent and LED light sources with various powers are supplied. Emergency models are provided to ensure lighting in case of power failures and sign models are available for lighting exit routes and identification of emergency exits.

## ASTERIA

Explosion proof linear lighting fixtures  
The ideal solution for lighting in hazardous areas

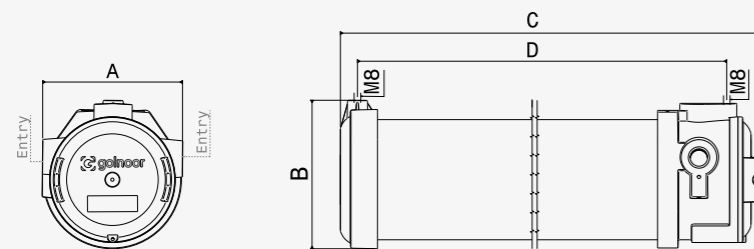
- Flameproof enclosure
- Zone 1, 2, 21, 22
- Degree of protection IP66/IP67
- LED/Fluorescent light source
- Normal/ Emergency/ Sign applications
- Through wiring
- Simplified maintenance

## STANDARDS

For ASTERIA product family the following standards have been followed wherever applicable:

- IEC 60079-0
- IEC 60079-1
- IEC 60079-31
- IEC 60598-1
- IEC60598-2-22
- IEC 60529

## FIXTURE SIZES

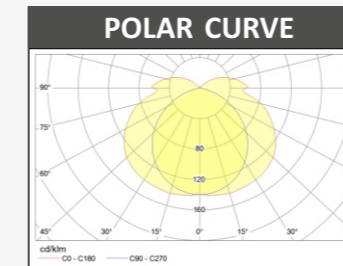


Dimensions (mm)

Size code	A	B	C	D
1	140	148	1319	1265
2	140	148	709	655
3	140	148	459	405

## FLUORESCENT LUMINAIRES

Types: NF, EF



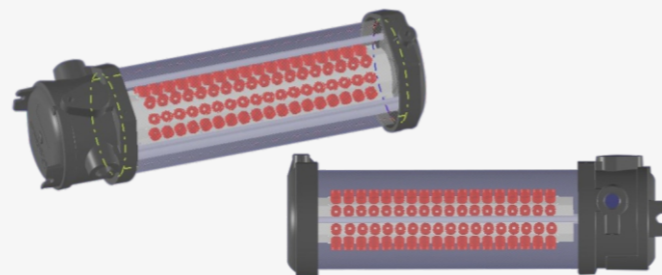
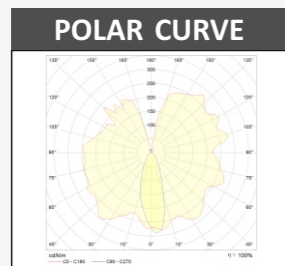
Technical data		
Type	NF	EF
Application	Normal	Emergency
Marking	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T 85°C Db	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T 85°C Db
EU-Type Examination Certificate	ECM 19 ATEX 5851 X	ECM 19 ATEX 5851 X
ATEX Certificate	ECM 19 ATEX-QS 6210	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-20 °C to 55 °C	-20 °C to 40 °C
Degree of protection	IP66/IP67	IP66/IP67
Cable entries	2xM25 or 2xM20	2xM25 or 2xM20
Dimensions	Size1 ,2	See size1 ,2
Enclosure Color	RAL 7037	RAL 7037
Enclosure material	Copper free aluminum	Copper free aluminum
Protective cover	Borosilicate glass	Borosilicate glass
Type of mounting	Ceiling, Pendant, Pole	Ceiling, Pendant, Pole
Power factor	> 0.9	> 0.9
Voltage	230 V AC	230 V AC
Frequency	50/60 Hz	50/60 Hz
Circuit	Electronic ballast	Electronic ballast Emergency supply
Light source	2xT8, Fluorescent, 18/36W	2xT8, Fluorescent, 18/ 36W
Lamp cap	G13	G13
Connecting terminals	L,N,PE :2x2.5mm <sup>2</sup>	L,N,PE :2x2.5mm <sup>2</sup>
Protection class	I	I
Emergency type	-	Maintained
Battery	-	4 Ah 3.6 V
Charging duration	-	24h
Rated operating duration	-	3h (one lamp)
Rated luminous flux	5000 lm/ 3000 lm	5000 lm/ 3000 lm

Type	Application	Content	Threads	Size	Order code
ASTERIA NF	Normal	2x Fluorescent lamp 36 W	2xM25	1	X10 NF 2360
ASTERIA NF	Normal	2x Fluorescent lamp 36 W	2xM20	1	X10 NF 2361
ASTERIA NF	Normal	2x Fluorescent lamp 18 W	2xM25	2	X10 NF 2180
ASTERIA NF	Normal	2x Fluorescent lamp 18 W	2xM20	2	X10 NF 2181

Type	Application	Content	Threads	Size	Order code
ASTERIA EF	Emergency	2x Fluorescent lamp 36 W	2xM25	1	X10 EF 2360
ASTERIA EF	Emergency	2x Fluorescent lamp 36 W	2xM20	1	X10 EF 2361
ASTERIA EF	Emergency	2x Fluorescent lamp 18 W	2xM25	2	X10 EF 2180
ASTERIA EF	Emergency	2x Fluorescent lamp 18 W	2xM20	2	X10 EF 2181

## LED LUMINAIRES

Types: NL-LIOL

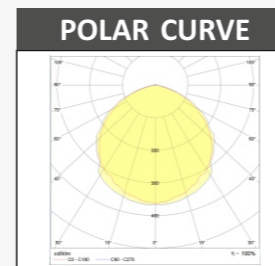


Technical data	
Type	NL-LIOL
Application	ACWL
Marking	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T 85°C Db
EU-Type Examination Certificate	ECM 19 ATEX 5851 X
ATEX Certificate	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-20 °C to 50 °C
Degree of protection	IP66/IP67
Cable entries	2xM25 or 2xM20
Dimensions	Size 3
Enclosure Color	RAL 7037
Enclosure material	Copper free aluminum
Protective cover	Borosilicate glass
Type of mounting	Ceiling, Pendant, Pole
Power factor	> 0.9
Voltage	230 V AC
Frequency	50-60 Hz
Illuminant	LED <sub>s</sub>
Connecting terminals	L,N,PE :2x2.5mm <sup>2</sup>
Protection class	I
Luminous intensity	>32.5 cd

Type	Application	Threads	Size	Order code
ASTERIA NL-LIOL	ACWL	2xM25	3	X10 NL 115 100 LI
ASTERIA NL-LIOL	ACWL	2xM20	3	X10 NL 115 101 LI

## LED LUMINAIRES

Types: NL, EL



Technical data		
Type	NL	EL
Application	Normal	Emergency
Marking	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T 85°C Db	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T 85°C Db
EU-Type Examination Certificate	ECM 19 ATEX 5851 X	ECM 19 ATEX 5851 X
ATEX Certificate	ECM 19 ATEX-QS 6210	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-20 °C to 55 °C	-20 °C to 40 °C
Degree of protection	IP66/IP67	IP66/IP67
Cable entries	2xM25 or 2xM20	2xM25 or 2xM20
Dimensions	Size 1, 2,3	Size 1, 2,3
Enclosure Color	RAL 7037	RAL 7037
Enclosure material	Copper free aluminum	Copper free aluminum
Protective cover	Borosilicate glass	Borosilicate glass
Type of mounting	Ceiling, Pendant, Pole	Ceiling, Pendant, Pole
Power factor	> 0.9	> 0.9
Voltage	230 V AC	230 V AC
Frequency	50-60 Hz	50-60 Hz
Illuminant	LEDs	LEDs
Connecting terminals	L,N,PE :2x2.5mm <sup>2</sup>	L,N,PE :2x2.5mm <sup>2</sup>
Protection class	I	I
Emergency type	-	Maintained
Battery	-	4 Ah, 4.8 V
Charging duration	-	24h
Rated operating duration	-	3h

Type	Application	Content	Threads	Size	Order code
ASTERIA NL	Normal	144xLEDs, 40W	2xM25	1	X10 NL 1150 L
ASTERIA NL	Normal	144xLEDs, 40W	2xM20	1	X10 NL 1151 L
ASTERIA EL	Emergency	144xLEDs, 40W	2xM25	1	X10 EL 1150 L
ASTERIA EL	Emergency	144xLEDs, 40W	2xM20	1	X10 EL 1151 L

Type	Application	Content	Threads	Size	Order code
ASTERIA NL	Normal	72xLEDs, 20W	2xM25	2	X10 NL 1150 M
ASTERIA NL	Normal	72xLEDs, 20W	2xM20	2	X10 NL 1151 M
ASTERIA EL	Emergency	72xLEDs, 20W	2xM25	2	X10 EL 1150 M
ASTERIA EL	Emergency	72xLEDs, 20W	2xM20	2	X10 EL 1151 M

Type	Application	Content	Threads	Size	Order code
ASTERIA NL	Normal	15xLEDs, 15W	2xM25	3	X10 NL 1150
ASTERIA NL	Normal	15xLEDs, 15W	2xM20	3	X10 NL 1151
ASTERIA EL	Emergency / Sign	15xLEDs, 15W	2xM25	3	X10 EL 1150
ASTERIA EL	Emergency / Sign	15xLEDs, 15W	2xM20	3	X10 EL 1151

## ACCESSORIES

ILLUSTRATION		TYPE	MATERIAL	NOTE	CODE	
EXTERNAL PROTECTIONS			External reflector	AISI304	Fixture Size 1	X10 R1
			External reflector	AISI304	Fixture Size 2	X10 R2
			External reflector	AISI304	Fixture Size 3	X10 R3
			Wire guard	AISI304	Fixture Size 1	X10 G1
			Wire guard	AISI304	Fixture Size 2	X10 G2
			Wire guard	AISI304	Fixture Size 3	X10 G3

ILLUSTRATION		TYPE	MATERIAL	NOTE	CODE
MOUNTING ACCESSORIES		Pole mounting	- AISI304 - Galvanized	- 2 pcs. With nuts, screws, washers - Available sizes: 1 1/2", 2"	X10 P1.5
					X10 P2
		Ceiling mounting	- AISI304 - Galvanized	2 pcs. With nuts, screws, washers	X10 WM
		Pendant mounting	- AISI304 - Galvanized	2 pcs.	X10 EB
		Easy-maintenance	- AISI304 - Galvanized	Can be Used separately or along with other bracket types	X10 MB

ILLUSTRATION		TYPE	ORDER CODE
PICTOGRAMS for EL type luminaires		Exit	X10 Exit
		Exit rout down	X10 DN
		Exit rout up	X10 UP
		Exit rout right	X10 RT
		Exit rout left	X10 LT
		Exit door right	X10 RD
		Exit door left	X10 LD
		Exit stairs right	X10 RS
		Exit stairs left	X10 LS

## Explosion Proof



GJB: Golnoor junction box



**S**erie GJB Explosion-proof boxes made of copper free Aluminum varies from terminal boxes to enclosures. They are equipped with pillar or strip terminals and assembly plate to distribute electricity in hazardous areas including zone 21,2,1 and 22. In addition, big sizes can be equipped with circuit breakers but without external access as a control panel to be able to and the fault more easily.

Cables enter to GJBs via explosion protected conduits or cable glands and unused drilled holes would be closed with protected stopping plugs. They can provide optional external earth connection and high IP protection degree.



Ex-d Light Alloy Boxes	
Marking acc. To 2014/34/EU	 II 2 G Ex db IIC T4/T5/T6 Gb  II 2 D Ex tb IIIC T85 C / T100 C Db
Applicable Zones	1, 2 - 21, 22
EU-Type Examination Certificate	ECM 18 ATEX 2444 X
ATEX Certificate	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-20°C to +55°C
Rated Voltage	690 V
Degree of Protection acc. to EN60529	IP66/IP67
Enclosure Material	Copper-free Aluminum
Enclosure Color	GJB1,2,3,4,5 : Painted - Ral Color : 7072

Ordering Details					
Type	Power Dissipation (w)			Rated Current (A)	Weight (kg)
	T6	T5	T4		
GJB1	8	14	28	40	1
GJB2	16	21	42	61	2
GJB3	30	36	56	60	3.5
GJB4	57	68	125	150	7.5
GJB5	82	121	246	250	17.5



Max. No. of Terminals									
Terminals	2.5	4	6	10	16	35	50	70	95
GJB1	10	7	-	-	-	-	-	-	-
GJB2	20	15	13	10	-	-	-	-	-
GJB3	20	16	12	10	8	-	-	-	-
GJB4	30	25	18	15	12	9	8	6	-
GJB5	80	70	50	40	30	20	12	10	6

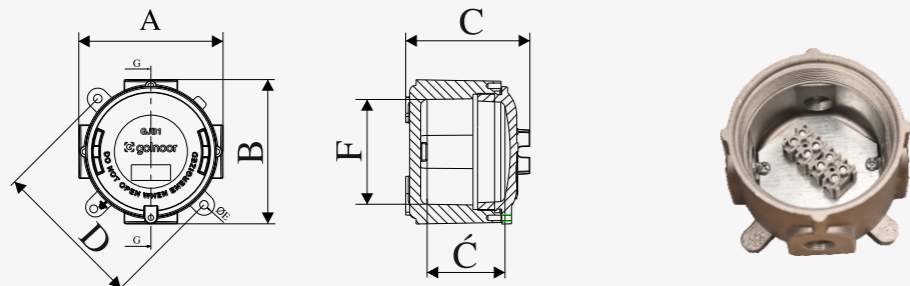
Max. Metric Entries Per Side							
Type	M20	M25	M32	M40	M50	M63	M75
GJB1	1	1	-	-	-	-	-
GJB2	3	2	1	-	-	-	-
GJB3	4	2	2	1	1	-	-
GJB4	5	4	2	2	1	1	-
GJB5	8	6	4	3	3	2	1

Max. NPT Entries Per Side							
Type	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
GJB1	1	1	-	-	-	-	-
GJB2	3	2	1	-	-	-	-
GJB3	4	3	2	2	2	-	-
GJB4	6	5	3	2	2	1	-
GJB5	10	8	5	3	3	2	1

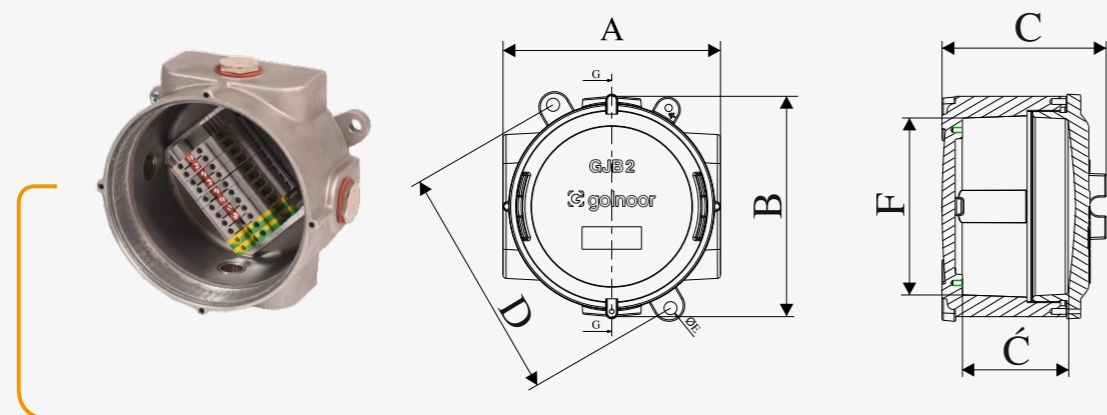
Due to different important parameters, please consult with the technical department to choose suitable junction boxes. These tables are just for information.



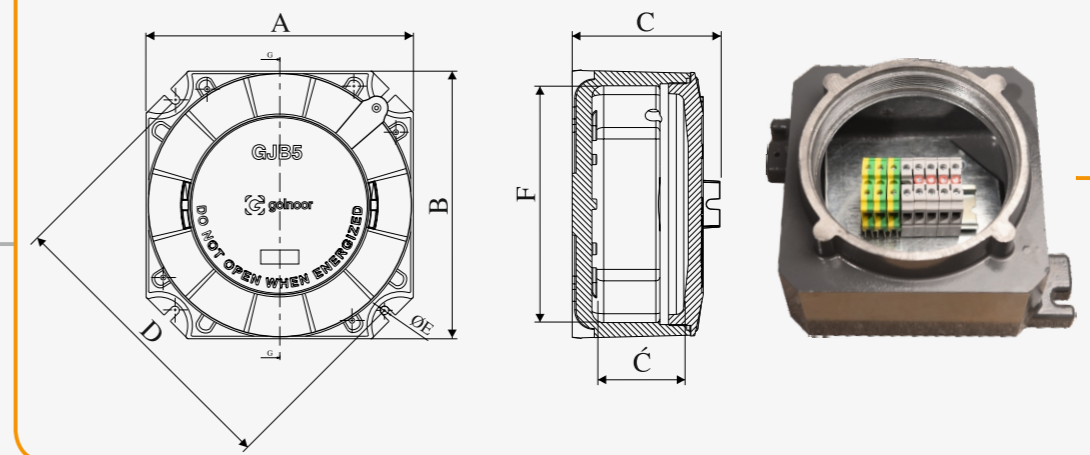
GJB1



GJB2



GJB 3,4,5



Type	External			Internal		Mounting	
	A	B	C	F	C'	D	E
GJB1	110	110	95	Ø84	57	115	6.5
GJB2	150	152	110	Ø122	73	162	9
GJB3	169	169	125	□137	76	235	7.5
GJB4	221	221	195	Ø174	142	248	11
GJB5	337	337	187	Ø297	110	375	11

All dimensions are in millimeters with tolerance.

# Explosion Proof Cable Gland



Golnoor introduces a solution for every cable type used in industrial and hazardous areas- onshore and offshore, under and above ground. Golnoor cable glands, thread conversions, and installation accessories are designed to adhere to global specifications of IEC wiring standards and meet international certification requirements constituting IEC and ATEX certifications for gas and dust applications. Our manufacturing facilities are the most productive and safest solution to fulfill your need in the closest way to your demand. Furthermore, our technical teams are ready to be on your side in training, commissioning and installation stage.

### Material

**Metallic- Nickel plated brass**  
Nickel-plated brass provides superb protection against corrosion and contamination under severe conditions in extreme environments and in this regard, it is the most appropriate material for oil and gas and petrochemical industries and refineries.

All internal and external components emerge electroplating process by the thickness of 5 to 10 microns and uniform coating is assured under the quality control procedure.

### Seal- Silicone

Silicone is opted as seal material to provide a wide range of thermal performance in extreme conditions.

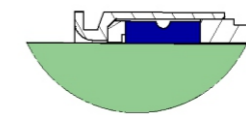
Operating temperature range

Silicone seals operates in temperature conditions varied from -30 to +140° C.

### Clamping

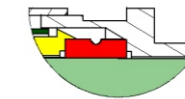
Outer sheath cable sealing

The outer seal is designed in the respect of ensuring cable sealing and ingress protection. (Fig 1)



Inner sheath cable sealing

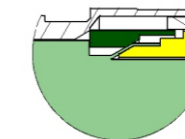
The inner seal is figured to work same tasks as outer seal in addition to satisfy flame-path protection commitments. (Fig 2)



Armored cable clamping

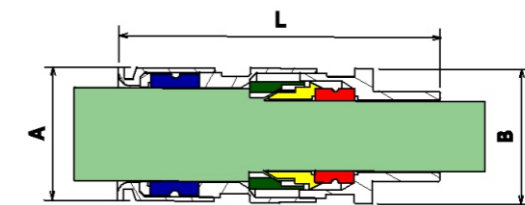
The designation complies clamping of all types of armored cables include

- Steel wire armored/ single wire armored (SWA) cable
- Steel tape armored (STA) cable
- Braided marine shipboard cable
- Lead sheath armored cable
- Type P cable (Fig 3).



### Ingress protection- IP

Exploiting thread to thread engagement prepare IP66. For more protection up to IP68, additional sealing or gasket could be used.

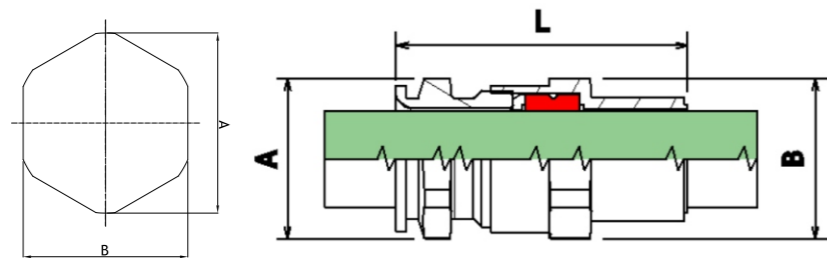




### XCGNA- for non-armored cable

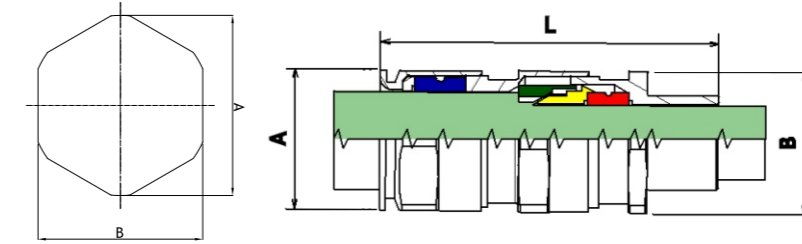


Technical Specification	
Suited for cables	Non-armored/ marine shipboard/ Type P/ Tray cables
Permissible zones	Group IIA, IIB, IIC, zones 1, 2, 21, 22
Marking acc. To 2014/34/EU	Ⓢ II 2G Ex db IIC Gb/ II 2G Ex eb IIC Gb/ II 3G Ex nR IIC Gc Ⓢ II 2D Ex tb IIIC Db
EU-Type Examination Certificate	ECM 19 ATEX 5727 X
ATEX Certificate	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-30°C to +140°C
Degree of Protection acc. to EN60529	IP66- IP68 with gasket
Material	Nickel-Plated Brass
Seal	Silicone
Accessories (Kit)	Locknut to secure gland body Earth tag to provide earth continuity Shroud to protect gland body



Series	ISO thread size	Outer sheath Min-Max	A <sub>min</sub>	B <sub>min</sub>	L <sub>min</sub>	Catalog number
XCGNA	M20S x1.5	7.0 -12.0	24	22	43.7	XCGNAM20S
XCGNA	M20L x1.5	10.0 -15.5	26	24	46.8	XCGNAM20L
XCGNA	M25 x1.5	13.5 -20.5	33	30	51.6	XCGNAM25
XCGNA	M32 x1.5	18.0 -27.0	45	41	61.0	XCGNAM32
XCGNA	M40 x1.5	23.0 -34.0	53	48	64.4	XCGNAM40
XCGNA	M50 x1.5	35.0 -47.5	69	64	72.8	XCGNAM50
XCGNA	M63 x1.5	42.0-56.0	82	75	76.3	XCGNAM63
XCGNA	M75 x1.5	50.0-64.5	93	85	86	XCGNAM75

All dimensions are in millimeters with tolerance.



### XCGA- for armored cable

Technical Specification	
Suited for cables	SWA/ SWB/ STA/ Braided marine shipboard/ Type P/ Lead sheathed cables
Permissible zones	Group IIA, IIB, IIC, zones 1, 2, 21, 22
Marking acc. To 2014/34/EU	Ⓢ II 2G Ex db IIC Gb/ II 2G Ex eb IIC Gb/ II 3G Ex nR IIC Gc Ⓢ II 2D Ex tb IIIC Db
EU-Type Examination Certificate	ECM 19 ATEX 5727 X
ATEX Certificate	ECM 19 ATEX-QS 6210
Permissible ambient temperature	-30°C to +140°C
Degree of Protection acc. to EN60529	IP66- IP68 with gasket
Material	Nickel-Plated Brass
Seal	Silicone
Accessories (Kit)	Locknut to secure gland body Earth tag to provide earth continuity Shroud to protect gland body

Series	ISO thread size	Inner sheath Min-Max	Outer sheath Min-Max	Armor Min-Max	A <sub>min</sub>	B <sub>min</sub>	L <sub>min</sub>	Catalog number
XCGA	M20S x1.5	7.0 -12.0	10.0 -15.5	0.2 -1.3	26.5	24	65.7	XCGAM20S
XCGA	M20L x1.5	10.0 -15.5	13.5 -20.5	0.2 -1.3	33	30	73.7	XCGAM20L
XCGA	M25 x1.5	13.5 -20.5	18.0 -27.0	0.2 -1.6	45	41	85.7	XCGAM25
XCGA	M32 x1.5	18.0 -27.0	23.0 -34.0	0.2 -1.6	53	48	93.5	XCGAM32
XCGA	M40 x1.5	23.0 -34.0	29.0 -40.5	0.2 -2.0	60.5	55	99.8	XCGAM40
XCGA	M50 x1.5	29.0 -40.5	35.0 -47.5	0.2 -2.5	69	64	108.5	XCGAM50
XCGA	M63 x1.5	35.0-47.5	42.0-56.0	0.2 -2.5	82	75	111.5	XCGAM63
XCGA	M75 x1.5	42.0-56.0	50.0-64.5	0.2 -2.5	92	85	123.6	XCGAM75

All dimensions are in millimeters with tolerance.

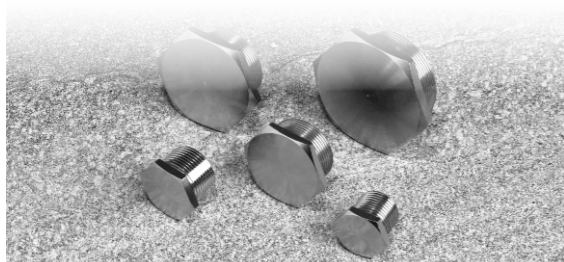


## XSP- stopping plug

Technical Specification	
Permissible zones	Group IIA, IIB, IIC, zones 1, 2, 21, 22
Marking acc. To 2014/34/EU	Ⓜ II 2G Ex db IIC Gb/ II 2G Ex eb IIC Gb Ⓜ II 2D Ex tb IIIC Db
EU-Type Examination Certificate	ECM 19 ATEX 5779 U
ATEX Certificate	ECM 19 ATEX-QS 6210
Degree of Protection acc. to EN60529	IP66- IP68 with gasket
Material	Nickel-Plated Brass

Series	ISO thread size	Thread height	Catalog number
XSP	M20	15.0	XSPM20
XSP	M25	17.0	XSPM25
XSP	M32	15.0	XSPM32
XSP	M40	15.0	XSPM40
XSP	M50	15.0	XSPM50
XSP	M63	15.0	XSPM63
XSP	M75	15.0	XSPM75

All dimensions are in millimeters with tolerance.



## XAR- adaptor-reducer

Technical Specification	
Permissible zones	Group Group IIA, IIB, IIC, zones 1, 2, 21, 22
Marking acc. To 2014/34/EU	Ⓜ II 2G Ex db IIC Gb/ II 2G Ex eb IIC Gb Ⓜ II 2D Ex tb IIIC Db
EU-Type Examination Certificate	ECM 19 ATEX 5779 U
ATEX Certificate	ECM 19 ATEX-QS 6210
Degree of Protection acc. to EN60529	IP66- IP68 with gasket
Material	Nickel-Plated Brass

Male	Female						
	M20	M25	M32	M40	M50	M63	M75
M20		XARM20-M25	XARM20-M32				
M25	XARM25-M20		XARM25-M32	XARM25-M40			
M32	XARM32-M20	XARM32-M25		XARM32-M40	XARM32-M50		
M40		XARM40-M25	XARM40-M32		XARM40-M50		
M50			XARM50-M32	XARM50-M40		XARM50-63	
M63					XARM63-50		XARM63-M75
M75						XARM75-63	

All dimensions are in millimeters with tolerance.

