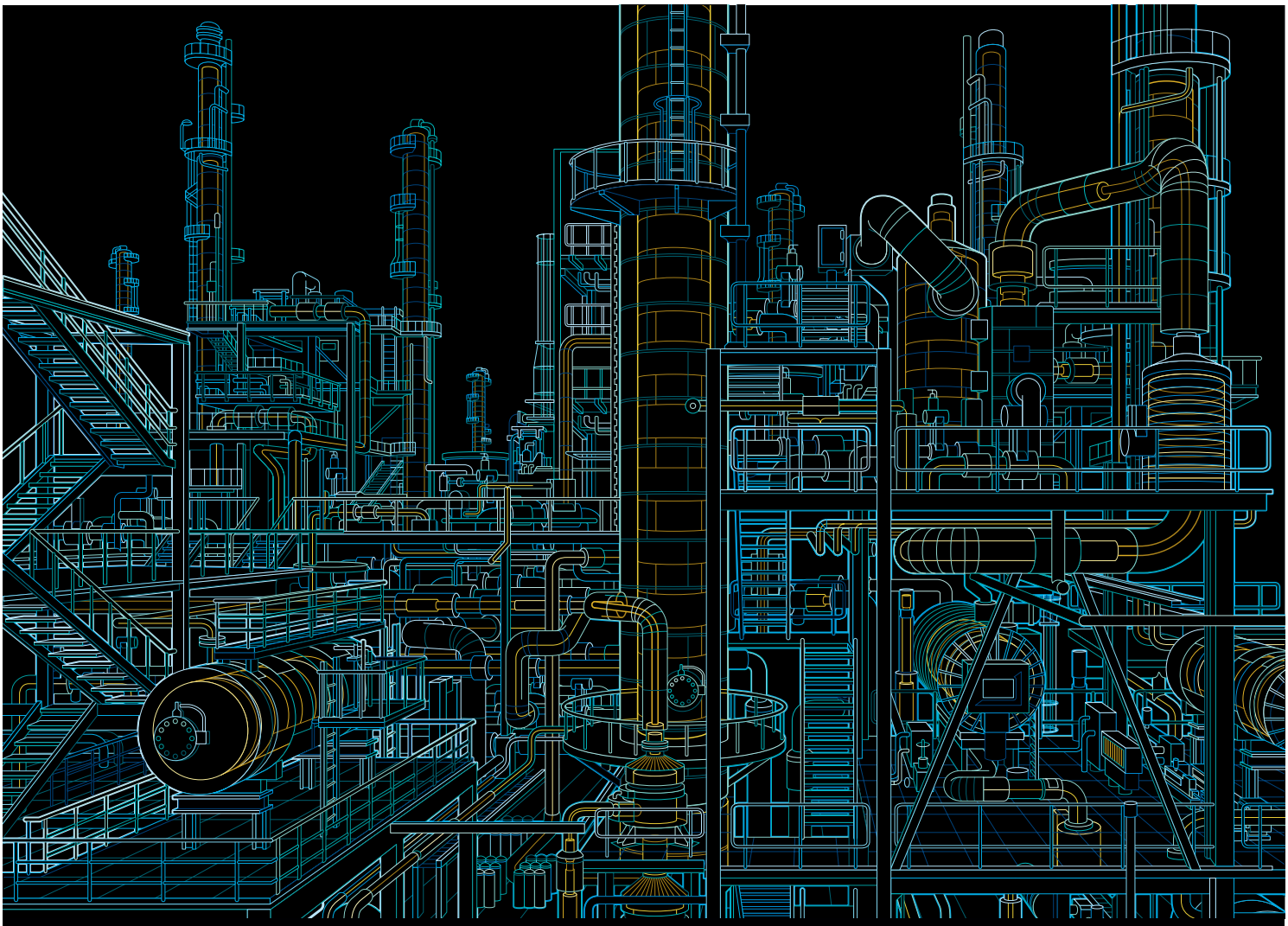


Product Catalogue

Flexible conduit systems, cable glands & accessories for hazardous areas

KOPEX-Ex

Power and productivity
for a better world™

ABB

Flexible conduit systems, cable glands & accessories for hazardous areas

Introduction

Introduction
Low voltage products for hazardous areas

At ABB, our focus is on improving your business performance by providing practical, reliable electrical products & services. To connect & protect for life. To solve everyday problems in the area's of Wire & Cable Management, Cable Protection, Power Connection & Control and Safety.

Our extensive engineering, supply chain management and technical sales support teams are committed to understanding everything that impacts your ability to accomplish your business objectives by reducing your total cost of ownership.

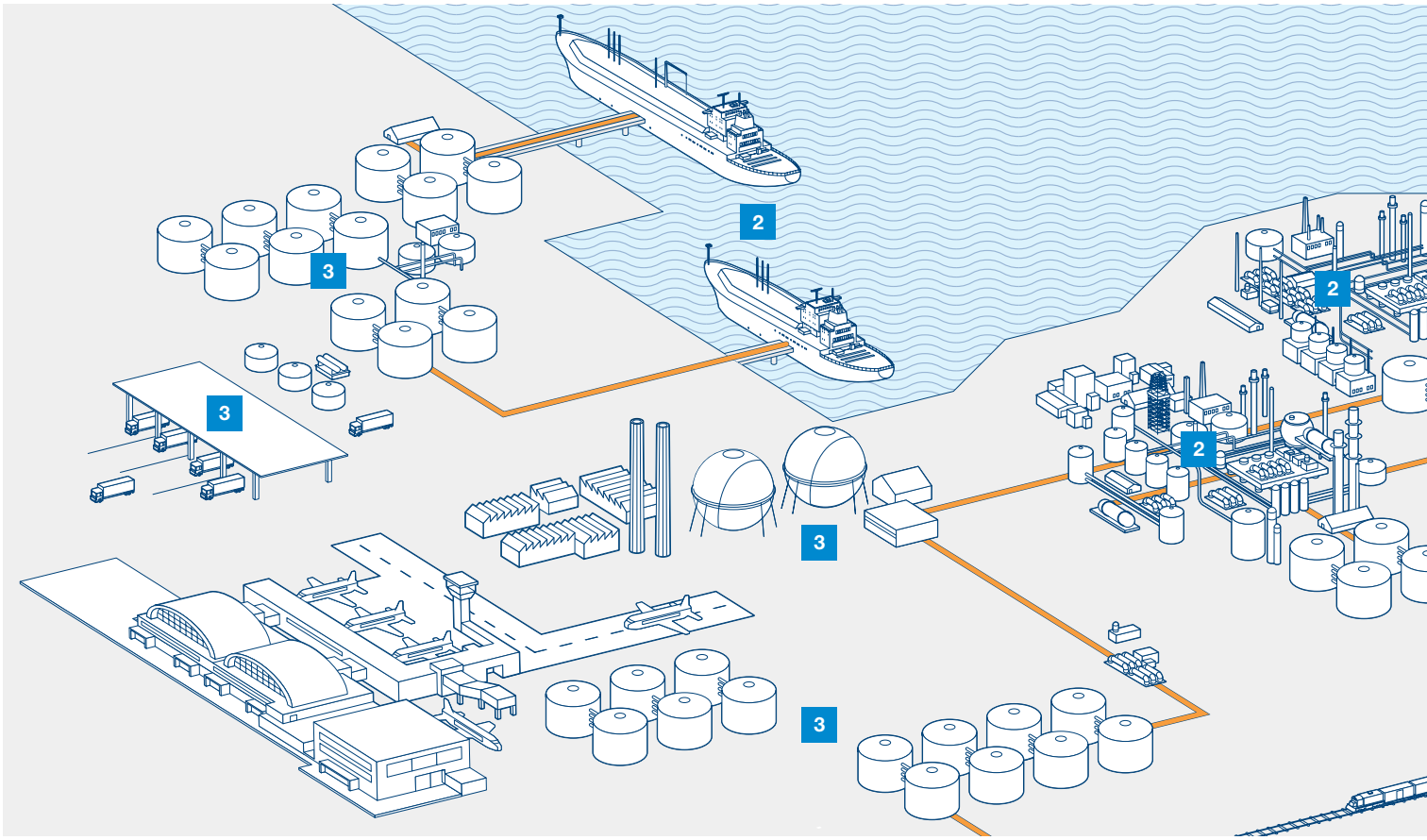
Whether you are designing, installing, operating, maintaining or owning an office building, off-shore platform, hospital, or a high speed train, power generating plant, machine equipment or a manufacturing facility, ABB engineered products fit and function in your application while providing superior performance, sustainability, and value throughout the project life cycle.

All our brands are built upon four product & service solution platforms. Platforms that address you or your customers' critical electrical & lighting needs covering the protection of data, energy, processes, assets and personal safety.

Beyond high performance application characteristics, ABB products, information and services facilitate and speed up your time critical assembly, installation or maintenance process:

Typical applications:
- Light fittings, boxes and enclosures
- Customised control panels for hazardous areas
- Ongoing R&D program for innovative and high performance products
- ATEX & IECEx products

Introduction
Oil & Gas applications - Upstream applications



1 Upstream applications | 2 Midstream applications | 3 Downstream applications

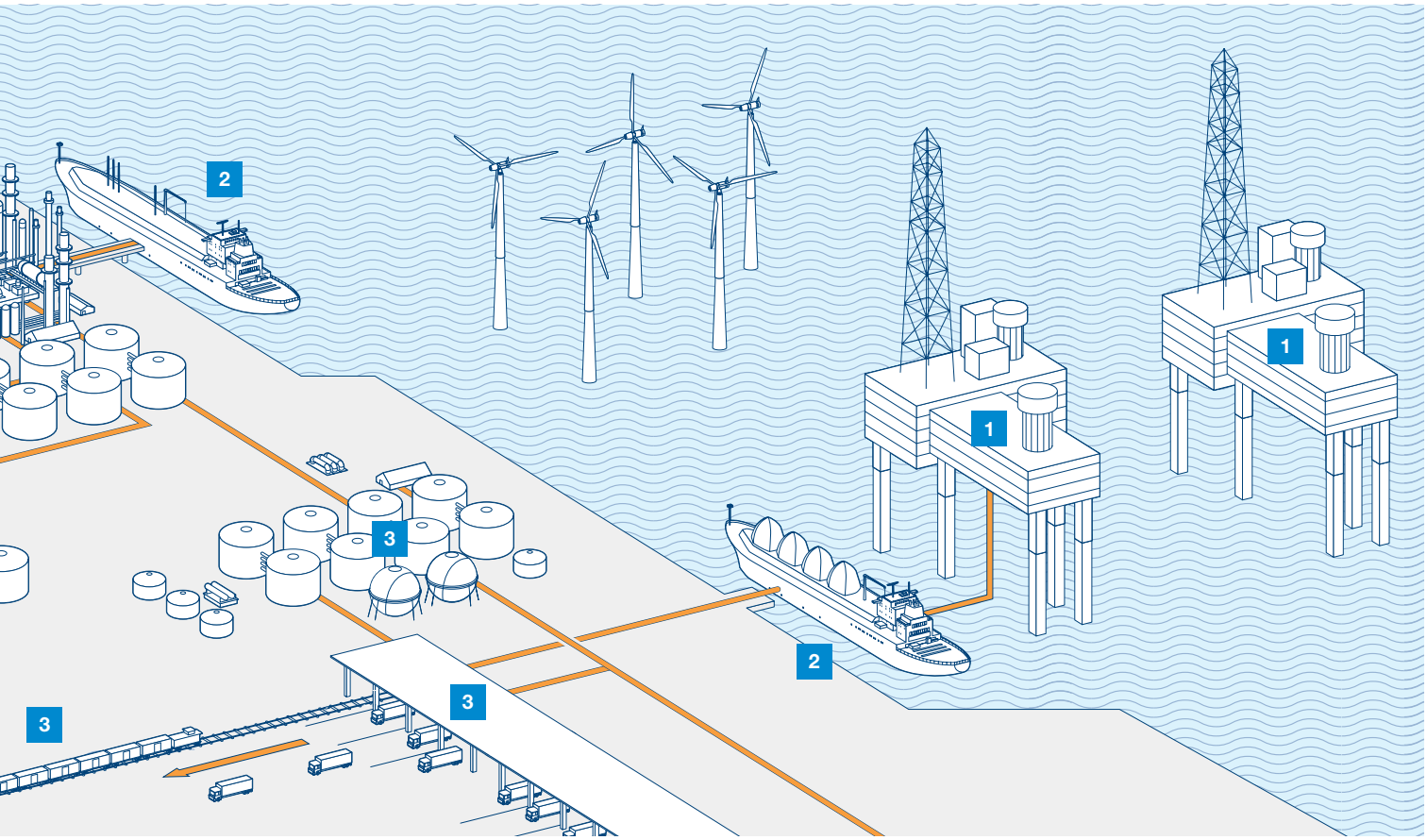
The oil and gas market is split into three sectors Upstream, Midstream & Downstream. Upstream consists of Exploration and production. Midstream relates to the transportation, storage and partial processing of crude oil and gas from the wellheads to the refining plants. This brings another set of challenges to overcome. The term downstream relates to the processing and delivery of finished carbon related product to the end-user.

Upstream applications

Firstly, there are offshore applications such as the drilling rigs and production platforms. These are always open to extreme weather conditions so equipment used here needs to be able to withstand a salty environment. This is achieved through either manufacturing product from stainless steel, as is the case for Kopex-Ex conduit glands, or by ensuring that the product is coated or painted to withstand marine environments.

Equipment in offshore applications also needs to be hardwearing and easy to maintain as production downtime can be extremely costly for example FPSO (Floating Production Storage and Offloading) vessel can produce 200,000 barrels of crude oil per day at approx $80 to $90 per barrel. A breakdown would result in the vessel producing a loss of revenue of over $700,000 per hour.

This has led to ABB products being used in many offshore applications to protect critical data and power cables across these massive vessels. Whether it is data cables from a gas detector or the cable protection on a power transmission unit, ABB offers a whole range of products that are tested and approved to many of the world standards.



Onshore applications can also be split into exploration and production. Single onshore wells may produce as little as a few barrels per day but networking of onshore wells can result in production of milliions of barrels per day.

This brings with it a whole new series of challenges to be overcome. Firstly, the drilling rigs tend to be mobile with motors and pumps often mounted on skids for easy transportation. This can lead to issues of connectivity for which Thomas and Betts has a range of thread converters in a variety of materials, many meeting world standards, ready to resolve the problem.

Secondly, so many rigs in network requires a massive monitoring operation to ensure that the flow of all the rigs is ongoing and consistent. This makes the protection of data cable critical. With the broadest range of systems and approvals, ABB leads the field in providing solutions.

Product Selection

- Salt water corrosion (offshore platforms)
- Oil and chemical resistance (Drilling rig MUD)
- Extreme ambient temperature
- Protection level
- Connectivity to other pieces of equipment
- Consequence of down time
- Approval level required (Ex e, Ex d, etc.)
- Approval specification required ATEX, IECEx
- Where product will be positioned, e.g. Zone 1 or Zone 2

Approvals / Characteristics

- ATEX Europe DIrectives 94/9/EC
- IECEx (International Scheme)
- Zones 1, 2, 21, 22
- IP66 ingress protection

Introduction
Oil & Gas - Midstream applications

Midstream relates to the transportation, storage and partial processing of crude oil and gas from the wellheads to the refining plants. This brings a different set of challenges to overcome.

This all relates to the fact that what is pumped out of the well is not pure and often contains a mixture of oil, gas, water and often sand which firstly need to be separated off from each other before being shipped or piped to a storage facility. This can be done in a variety of ways depending on the typeof oil or gas that the well is pumping and can often take up to 4 processes before the commodity is separated out readyfor piping or shipping. These processes require energy and this energy is often created from the commodity itself by the utilisation of the gas.

Once the separating has been completed, the commodity can then be moved to storage. In the case of an offshore rig this separating is often done on shore away from the rig then pumped to the storage depots. In the case of the FPSO vessels it is all done on board and the oil transferred to tankers at sea for delivery to storage depots.

Product selection
- Salt water corrosion (Tankers)
- Extreme ambient temperature
- Protection level
- Consequence of down time
- Approval level required (Ex e, Ex d, etc.)
- Approval specification required ATEX, IECEx
- Where product will be positioned, e.g. Zone 1 or Zone 2

Approvals / Characteristics
- ATEX Europe DIrectives 94/9/EC
- IECEx (International Scheme)
- Zones 1, 2, 21, 22
- IP66 ingress protection

This is also the point when all metering needs to take place to calculate invoices and taxes today. The amount of oil produced is shapely measures, also the density, viscosity, pressure, temperature, and in the case of gas, the amount of water vapour is also measured.

Oil is often pumped directly to the oil refinery which is where the down stream operation starts but often needs to go through a series of pumps to get the required pressure.

With the Kopex-Ex range of products, ABB can offer a range of products and services to meet the demands of midstream oil and gas markets. The Kopex-Ex range of conduit & fittings are manufactured to meet ATEX and IECEx standards. They are designed to be robust and to meet the vigors of the environment whether it is on oil tankers or in the refining production process.

Introduction
Oil & Gas - Downstream applications

1

The term downstream relates to the processing and delivery of finished carbon related product to the end-uster. This covers a whole range of applications from refining to petrol stations.

There are over 700 refineries globally all competing to supply finished carbon based products to local and international markets. The products refined are varied including:

- Transportation fuels - LPG, gasoline, jet fuel, diesel, gas oil and bunker fuel
- Petrochemical feedstocks - LPG, naphtha and aromatics
- Energy sources - LPG, kerosene, heating oil and fuel oil
- Specialities - Lubricants, bitumen, coke, solvents and waxes
- Petrochemical feedstocks - Synthetic fibres (nylon), plastics (polyethylene, PVC)

Product Selection

- Continual Movement (CCTV)
- Extreme ambient temperature
- Protection level
- Consequence of down time
- Approval level required (Ex e, Ex d, etc.)
- Approval specification required ATEX, IECEx, UL, GOST, etc.
- Where product will be positioned, e.g. Zone 1 or Zone 2

Approvals / Characteristics

- ATEX Europe DIrectives 94/9/EC
- IECEx (International Scheme)
- Zones 1, 2, 21, 22

The refining process is in four stages, firstly distillation which separates it into 5 product sectors LPG, Naphtha, Kerosine, Gas, Oil, and Atmospheric residue, this is done using high temperature. The higher the temperature the higher the quality of the product.

The second stage is the upgrading or reforming. This stage is used to change the product at a molecular level for example changing the low octane version of Naphtha to high octane which can be blended into gasoline.

Stages three and four are about treating the product to remove impurities such as sulphur and blending the refined product into distinct products for the market.

The final stage of the downstream process is delivery to the market which involves storage and transportation. For example in the case of aviation fuel this can be shipped direct to airports by road or rail where it is stored, before transferring to tanker trunks for the refueling of aircraft.

All the stages in the downstream operation have different requirements to ensure safety of personnel and the quality of the end product. Kopex-Ex products are used in this area and are all designed for easy maintenance. There is also a range of instrumentation boxes either with standard configurations or custom built to meet the end-users' requirements, all of which are essential within a refinery where sensors play a key part on the process to ensure quality.

Introduction
Food & Beverage applications

1 Food processing - Explosion proof (Dust) | 2 Beverage manufacture - Explosion proof (Vapour)

Food Industry

ABB offers a range of products for the food processing market, including products for use in areas where stainless steel is preferred as well as areas classified as hazardous. ABB can offer stainless steel control stations for use on automated food processing and packaging machines as well as lighting specifically designed for use in dust filled atmospheres such as flour mills or other places where the risk of explosion is considered to be extremely high.

Beverage Industry

ABB has a range of products designed for being used in all beverage production sectors in the malting, brewing, wine, spirits or soft drink business. Kopex-Ex can supply fittings in stainless steel & nickel plated brass and work with other ABB products to reach the needs of hazardous areas where explosive gases may occur or in areas where cleanliness is required.

Introduction
Chemical & Pharmaceutical applications

3 Chemical engineering - Explosion proof | 4 Pharmaceutical production - Explosion proof

Chemical & Pharmaceutical Industry

The ABB range of products and solutions are ideal for use in the chemical and pharmaceutical Industry. Whether it is upstream in the primary production stage or downstream in the packing stage. Many of the processes and applications used in these areas require approvals to hazardous area standards making Kopex-Ex range of conduits & cable glands ideal.

1

World standards and what they mean.

In this Section we will outline the different Standards used throughout the world and what it means for products specified for use in Hazardous Areas. Below is a map of the world which illustrates the Standards that are generally used in these regions.

Product Approvals

UL	CSA	IECEx	ATEX	EurAsian	INMETRO
CLASS & DIV	CLASS & ZONES	GROUPS & ZONES			

The ATEX Europe Directives 94/9/EC

ATEX requires employers to eliminate or control risks from dangerous substances and to classify areas where explosive atmospheres may occur into zones, as laid down in regulations. ATEX Directives are designed to protect employees, the public and the environment from accidents owing to explosive atmospheres and since July 1st 2006 all existing sites, as well as new sites, must be fully ATEX compliant.

Directive ATEX100a applies to equipment suppliers and manufacturers and ATEX137 applies to end users. These directives compliment each other, but have different purposes. ATEX100A covers both electrical and non-electrical products intended for use in hazardous areas, including mechanical equipment.

The Directive came into existence in 2003 and products sold within the European Union designed for use in hazardous areas must have ATEX certification and bear the ATEX marking on the product or on a certificate plate. The obligation is placed upon the manufacturer or supplier of the product and the intention is to facilitate free movement of goods within the EU.

Declaration of Conformance

This has to be issued by the supplier for every order which is to be installed in a hazardous area. This document has to show that the equipment supplied complies with the latest harmonized standard.

IECEx (International Scheme)

The IECEx scheme is an international certificate of conformance for products used in a hazardous area.

This scheme provides:

a) A single certification of conformity for manufacturers to comply that includes:
b) Testing and assessment of products to a standard including a full test report.
c) Ongoing surveillance of manufacturers premises.
d) A fast-track process for countries where regulations still require the issuing of national Ex certificates or approvals.

This scheme is in the process of being adopted by all the known standards across the world but are all working tovarious time scales.

UL (America) & CSA (Canada)

The American and Canadian standards are the only ones to have different classifications and locations. ATEX & IECEx work to Groups and Zones whereas the NEC & CEC works to Classes and Divisions, there is no direct comparison between the two. This means that it is imperative that the two standards are not inter-changed within an area.

EurAsian Conformity Mark (Customs Union)

EurAsian Conformity Mark follows similar rules to that of IECEx as far as the breakdown of the zones and other criteria are concerned.

EurAsian Conformity Mark is the standard for the Customs Union which includes the Russian Federation, Kazakhstan and Belarus.

Electrical materials for use in potentially explosive atmospheres must conform to two major certification standards: IEC/CENELEC and NEC

The IEC (International Electrotechnical Commission) standards are accepted in practically all countries. They are identical to the European CENELEC standards.

The NEC (National Electrical Code) is mandatory in the United States. The 1996 version, art. 505, takes up the IEC designations for gas, temperature classes for materials and zone definition.

Gases and vapours classification

Gases are divided into four groups in the NEC (National Electrical Code) and three groups for IEC/CENELEC. The groups display the same hierachy of classification of gases and vapour (See table on page 1/18).

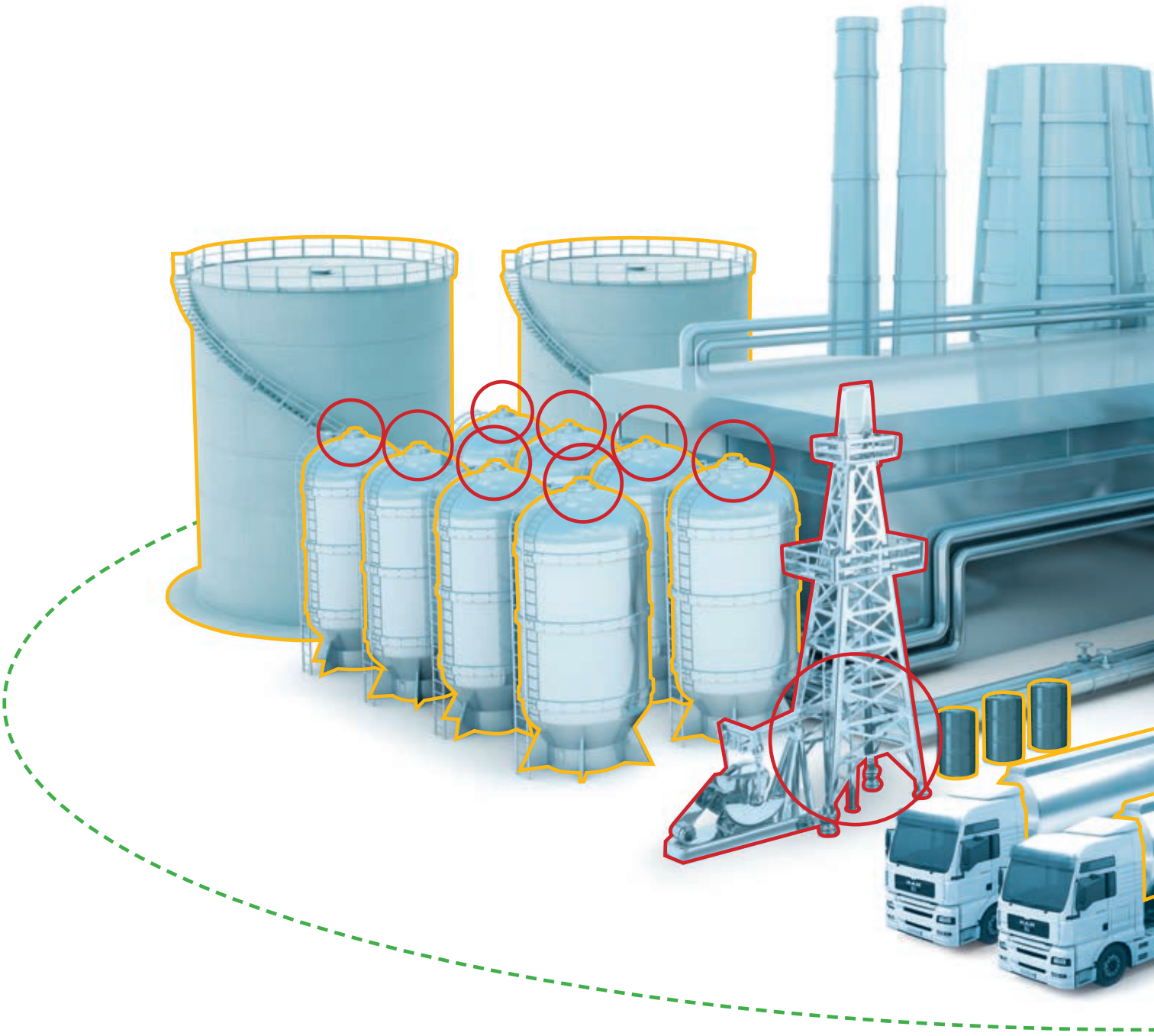
Temperature classification

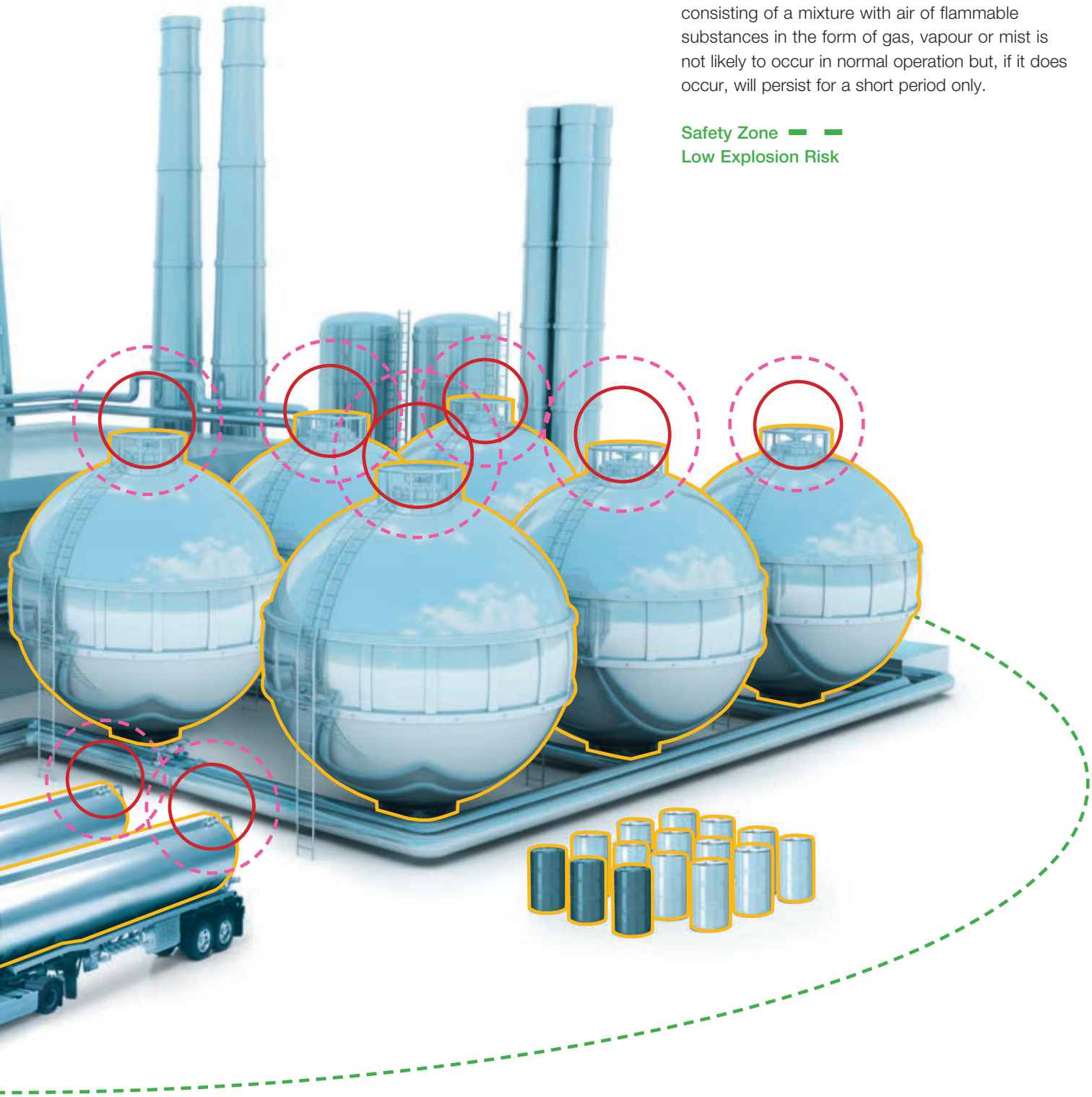
The IEC and the NEC have also defined a temperature classificiation for material used in zones at risk of explosion (See table on page 1/19).

Standards, zone definitions & product markings
Zone definitions - Onshore gases & vapours

Zone 0
Permanent / Frequent
Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is present continuously or for long periods, or frequently.

Zone 1
Ocassional
Site where an atmosphere consisting of a mixture of air and inflammable substances in the form of gas, vapour or mist is likely to arise occasionally during normal operation.





ZONE 2

Zone 2
Gas Irregular / Short Duration
Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Safety Zone
Low Explosion Risk

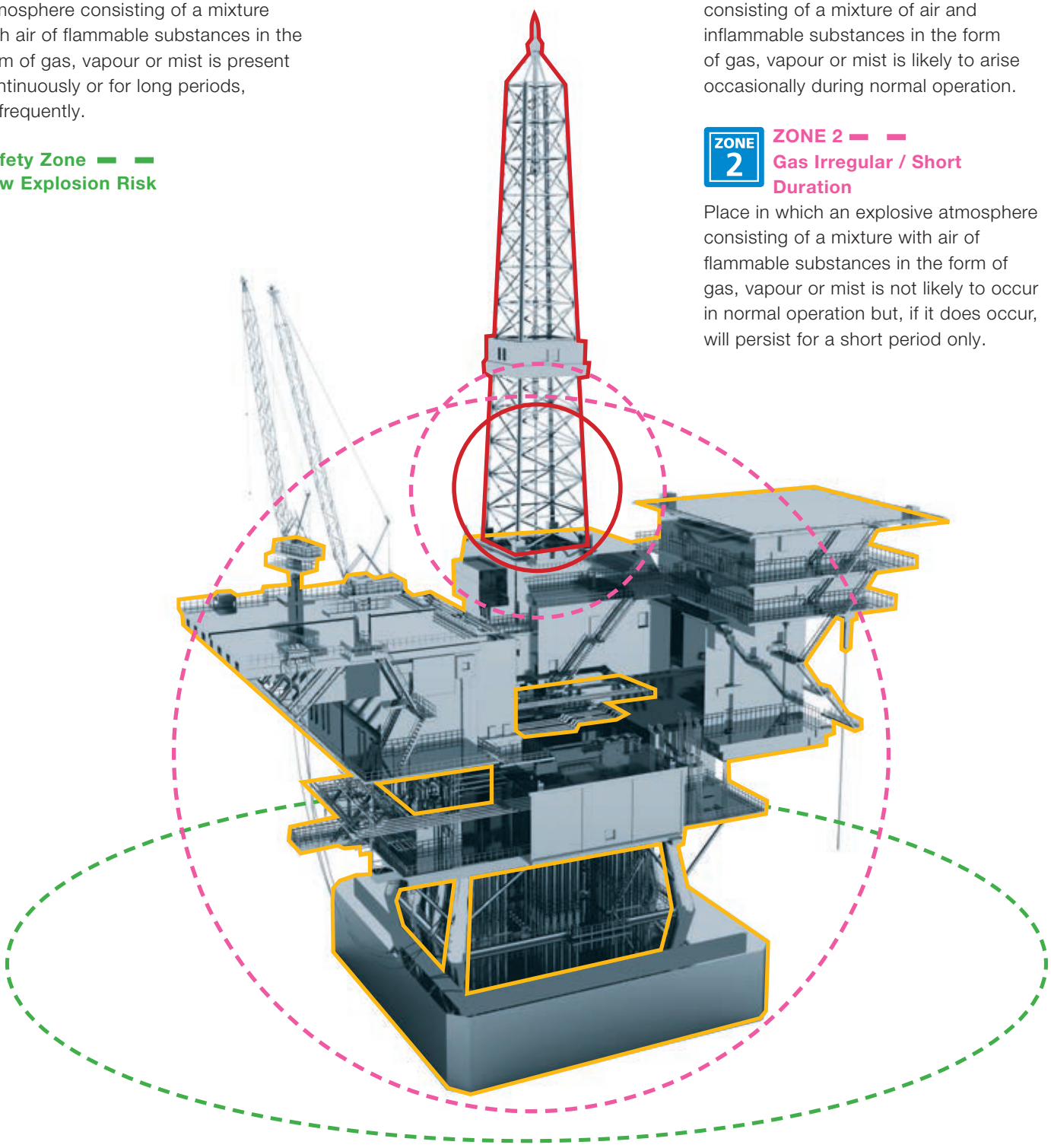
Standards, zone definitions & product markings
Zone definitions - Offshore gases & vapours

Zone 0
Permanent / Frequent
Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is present continuously or for long periods, or frequently.

Safety Zone
Low Explosion Risk

Zone 1
Ocassional
Site where an atmosphere consisting of a mixture of air and inflammable substances in the form of gas, vapour or mist is likely to arise occasionally during normal operation.

ZONE 2
Gas Irregular / Short Duration
Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.



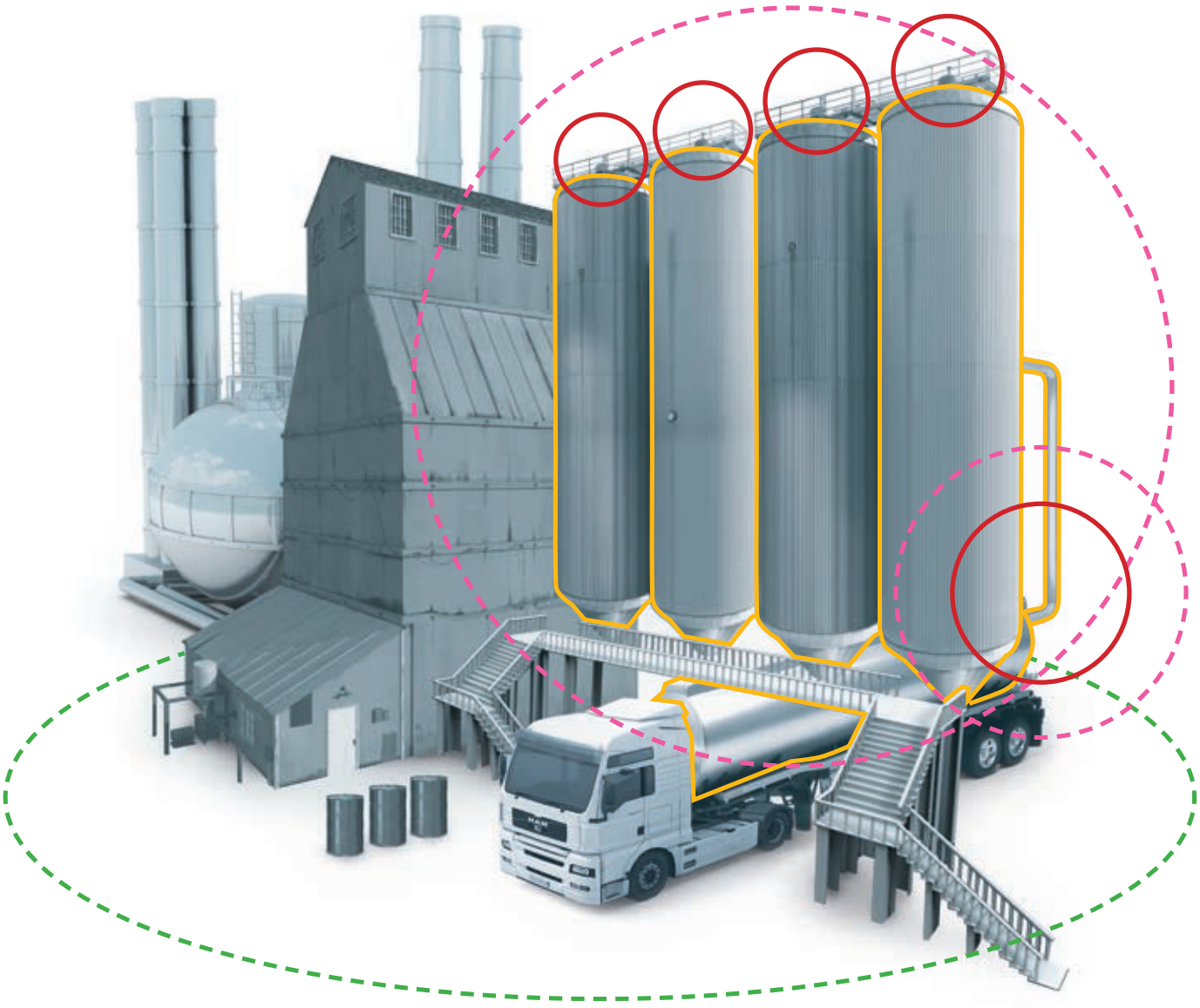
Standards, zone definitions & product markings
Zone definitions - Dust

Zone 20
Permanent / Frequent
Area in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods, or frequently.

Zone 21
Occasional
Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is likely to occur, occasionally, in normal operation, ocassionally.

Zone 22
Dust Irregular / Short Duration
Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Safety Zone
Low Explosion Risk



Standards, zone definitions & product markings
Kopex-Ex - Product marking guide

1

Classification of hazardous areas		European/IEC or NEC classifications		
Flammable substances	Temporary behaviour of flammable substances in hazardous places	**Typical zones**	**Required marking** for installation	
			equipment group	equipment protection level
Gases Vapours	is present continuously or for long periods or frequently	zone 0	**II**	**Ga**
	is likely to occur in normal operation occasionally	zone 1	**II**	**Gb**
	is not likely to occur in normal opration but, if it does occur, will persist for a short period only	zone 2	**II**	**Gc**
Dusts	is present continuously or for for long periods or frequently	zone 20	**III**	**Da**
	is likely to occur in normal operation occasionally	zone 21	**III**	**Db**
	it is not likely to occur in normal operation but, if it does occur, will persist for a short period only	zone 22	**III**	**Dc**
Methane Dusts	-	mines	**I**	**Ma**
	-	mines	**I**	**Mb**

Subdivision of gases and vapours			
Apparatus may be used in group	**Gases or vapours**		
IIA	ammonia methane ethane propane	ethyl alcohol cyclohexane n-butane	galsoline n-hexane	acetaldehyde
IIB	town gas, acrylnitril	ethylene ethylene oxide	ethylene glycol	ethyl-ether
IIC	hydrogen	ethine (acetylene)	sulphide of carbon	

Dust	
IIIA	Combustible Flyings
IIIB	Non-Conductive Dust
IIIC	Conductive Dust

Product stamp detail

KPEX Ex **I M2/II 2GD Exde I Mb Exde IIC Gb Extb IIIC Db**

(Product stamp detail)

SP **CLI.Div1.ABCD .CLII.Div1.EFG.**

(Class & Divisions)

CLI (Class I), Div 1
Where ignitable concentrations of flammable gases, vapours or liquids are present within the atmosphere under normal operation conditions.

CLI (Class I), Div 2
Where ignitable concentrations of flammable gases, vapours or liquids are present within the atmosphere under abnormal operation conditions.

Class I areas
Group A: Acetylene / Group B: Hydrogen /
Group C: Propane & Ethylene / Group D: Benzene, Butane & Propane.

CLII (Class II), Div 1
Where ignitable concentrations of combustible dusts are present within the atmosphere under normal operation conditions.

CLII (Class II), Div 2
Where ignitable concentrations of combustible dusts are present within the atmosphere under abnormal operation conditions.

Class II areas
Group E: Metal Dust / Group F: Carbon & Charcoal / Group G: Flour, Starch, Wood & Plastic.

Restriction for using apparatus	
Requirements	**Marking**
Equipment without restriction	**-**
Equipment with special condition may be noted	**X**
Ex component, which is not intended to be used alone and requires additional certification before being used in hazardous area	**U**

Protection technique

Application	Type of protection		Marking	EN/IEC standard
All applications	General requirements		**-**	60079-0
Control stations, motors, fuses, switchgear, power electronics	Flameproof enclosure		**Ex d**	60079-1
Installation materials, motors, luminaries	Increased safety		**Ex e**	60079-7
Measurement and control, automation technology, sensors, actuators	Intrinsic safety		**Ex i**	60079-11
Switch- and control cupboards, analyse-apparatus, computers	Pressurisation		**Ex p**	60079-2
Coils of motors or relays, solenoid valves	Encapsulation		**Ex m**	60079-18
Transformers, relays, control stations, magnetic contactors	Oil immersion		**Ex o**	60079-6
Capacitors, transformers	Powder filling		**Ex q**	60079-5
See at the top - only for zone 2	'Non sparking'		**Ex n**	60079-15
For use in zone 0, 1, 2 / for use in zone 1, 2	Dust atmospheres		**Ex t**	60079-31

IECEx SIRA09.0103 X

(Certification Number)

New Marking - EPL's (Explosion Protection Levels)

The introduction of the EPL's and changes in the EN 60079 series standard has introduced new marking requirements.

IIA **T1** Acetone 735º
IIA **T1** Ammonia 630º
IIB **T1** Carbon Monoxide 605º
IIA **T1** Bensene 560º
IIC **T1** Hydrogen 560º
IIA **T1** Methane 537º
IIA **T1** Toluene 535º
IIA **T1** Styrene 490º
IIA **T1** Propane 470º
IIA **T1** 1-Butene 455º
IIB **T1** Butadiene 430º

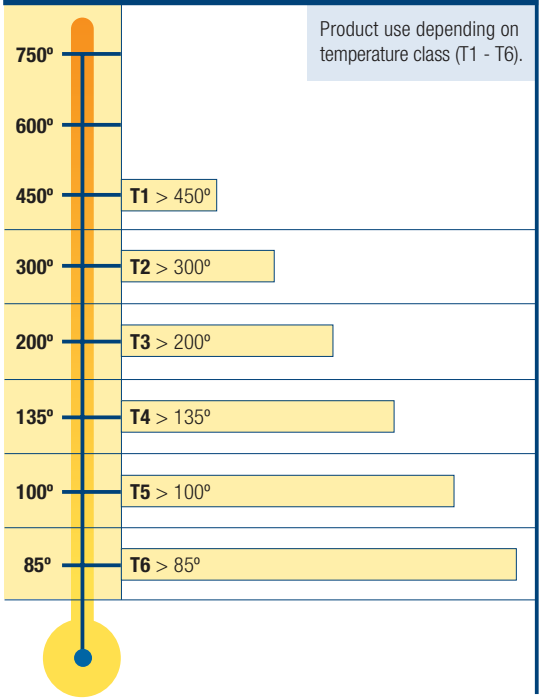
IIB **T2** Ethylene 425º
IIA **T2** Butane 372º
IIA **T2** Ethanol 363º
IIA **T2** Butylalcohol 359º
IIB **T2** Dimetylether 350º
IIC **T2** Acetylene 305º

IIA **T3** Nafta 290º
IIA **T3** Hydrogen Sulphide 270º
IIA **T3** Cyclohexane 259º
IIA **T3** Hexane 233º
IIA **T3** Heptane 215º
IIA **T3** Kerosene 210º
IIA **T3** Dekane 201º

IIB **T4** Diethyl Ether 160º

IIC **T6** Carbon Disulphide 95º

Temperature Class (T) / Ignition Temperature



Standards, zone definitions & product markings
Index of ingress protection

1

IP Ratings
IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment.

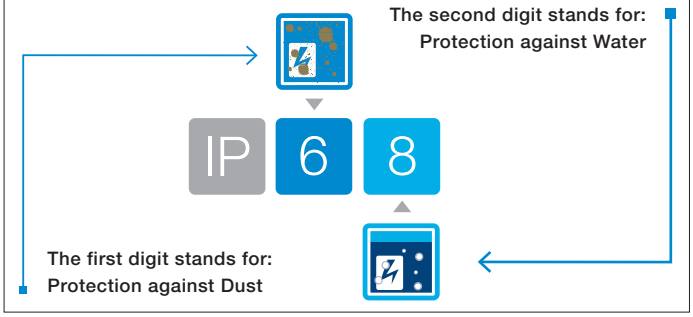
Protection against Solid Bodies
Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

0	No protection
1	Objects greater than 50 mm, accidental touch by hands
2	Objects greater than 12 mm, accidental touch by fingers
3	Objects greater than 2.5 mm, e.g. tools/wires
4	Objects greater than 1 mm, e.g. tools/wires/small wires
5	Protected against dust - limited ingress (no harmful deposits)
6	Totally protected against dust (Dust-tight)

Protection against Water
Degree of protection of equipment inside enclosures against damage from the ingress of water.

0	No protection
1	Protected against vertically falling drops of water
2	Protected against direct sprays of water 15° from vertical
3	Protected against sprays of water to 60° from vertical
4	Protected against water sprayed from all directions - limited ingress permitted
5	Protected against low pressure jets of water from all directions - limited ingress permitted
6	Protected against strong pressure jets of water, heavy seas - limited ingress permitted
7	Protection against the effects of immersion between 15cm - 1 m
8	Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours
9	IP69k Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80bar) from any angle

IP Ratings
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.
The numerals stand for the following:



Flexible conduit systems
for hazardous areas

Flexible conduit systems for hazardous areas
Conduit fittings - Selection guide








	Non-metallic conduit			Nylon conduit fittings				
Type	**EXB Nylon conduit**	**EXBB Nylon conduit**	**XESX Nylon conduit**	**Straight metallic & braided fittings**	**Straight Nylon fittings**	**Nylon elbow fittings**	**Nylon Y & T piece fittings**	**Nylon fittings**
Approvals								
ATEX	•	•	•	•	•	•	•	•
IEC / IECEx	•	•	•	•	•	•	•	•
CSA	–	–	–	–	–	–	–	–
UL	–	–	–	–	–	–	–	–
Protection Type								
Ex e	•	•	•	•	•	•	•	•
Ex d	–	–	–	–	–	–	–	–
Ex de	–	–	–	–	–	–	–	–
Ex tb	•	•	•	•	•	•	•	•
Zones								
Zone 1	•	•	•	•	•	•	•	•
Zone 2	•	•	•	•	•	•	•	•
Zone 21	•	•	•	•	•	•	•	•
Zone 22	•	•	•	•	•	•	•	•
Class / Division								
Class I / Div 1	–	–	–	–	–	–	–	–
Class I / Div 2	–	–	–	–	–	–	–	–
Class II / Div 1	–	–	–	–	–	–	–	–
Class II / Div 2	–	–	–	–	–	–	–	–
Section 2 / Page No.	2/4	2/4	2/5	2/7	2/8	2/9	2/10	2/11





	Liquid tight fittings & glands			Explosion-proof couplings
Liquid tight conduit	**Group 1 fittings**	**90° elbow fittings**	**Group 1 Universal fittings**	**XP Flex Flexible Link**
–	•	•	•	–
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2/12	2/19	2/20	2/23	2/25

Non-metallic nylon conduit
EXB & EXBB Range - Anti-static nylon & overbraided conduit

Type EXB
Anti-static nylon conduit

EXB Range
Anti-Static Nylon Conduit

Compatible with: EXPQM / EXPQA fittings / **Materials:** Anti-Static Nylon 12 / **Colour:** ● Black

Part No.	Conduit Size Metric (mm)	Outside Diameter (mm)	Coil Length (m)
EXB03*	16	15.8	10/30/50
EXB04*	20	21.2	10/30/50
EXB05*	25	28.5	10/30/50
EXB06*	32	34.4	10/30/50
EXB07*	40	42.4	10/30/50
EXB08*	50	54.5	10/30/50
EXB09*	68	67.2	10/30/50
EXB010*	80	80	10/30/50

* Add coil length to complete part number, e.g. 10 metres = EXB0510

Certifications

Standards

EC Type examination certificate:

ATEX: Baseefa 08 ATEX 0003X
IECEx: IECEx BAS08.0001X
Ex e IIC Gb
Ex tb IIIC Db

Temperature Range

-20°C to +80°C
RTI 110°C to EN60079-0

Special Characteristics

Surface resistivity $<10^6\Omega$

Type EXBB
Anti-static nylon conduit

EXBB Range
Overbraided Conduit

Compatible with: EXBQM / EXBQA fittings / **Materials:** Anti-Static Nylon 12 (Stainless Steel)

Part No.	Conduit Size (mm) Metric (mm)	Outside Diameter (mm)	Coil Length (m)
EXBB03*	16	15.8	50
EXBB04*	20	23.6	50
EXBB05*	25	30	50
EXBB06*	32	36	50
EXBB07*	40	43.5	30
EXBB08*	50	56.5	50

* Add coil length to complete part number, e.g. 10 metres = EXBB0550

Certifications

Standards

EC Type examination certificate:

ATEX: Baseefa 08 ATEX 0003X
IECEx: IECEx BAS08.0001X
Ex e IIC Gb
Ex tb IIIC Db

Temperature Range

-20°C to +80°C
RTI 110°C to EN60079-0

Special Characteristics

Screening level 60dB at 1MHz

Non-metallic nylon conduit
XESX Range - Anti-static nylon conduit

Type XESX
Anti-static nylon
multi-layer conduit

XESX Range

Anti-Static Nylon Multi-Layer Conduit

Compatible with: EXPQ and Nylon Fittings / **Materials:** Anti-Static Nylon 12 / **Colour:** ● Black

Part No.	Conduit Size Metric (mm)	Outside Diameter (mm)	Coil Length (m)
XESX0250	12	12.8	50
XESX0350	16	15.6	50
XESX0450	20	21	50
XESX0550	25	28.5	50
XESX0650	32	34.4	50
XESX0730	40	42.4	30
XESX0830	50	54.4	30

Certifications

Standards

EC Type examination certificate:

Metallic Fittings:
ATEX: Baseefa08ATEX0003X
IECEx: IECEx BAS08.0001X
Ex e IIC Gb Ex tb IIIC Db

Nylon Fittings:
ATEX: SEV15ATEX0121 - Nylon Fittings
IECEx: IECEx SEV15.0009 - Nylon Fittings
Ex eb IIC Ex tb IIIC

Temperature Range

-40°C to +85ºC Metallic fittings
-5°C to +85ºC Nylon fittings sizes 02-03
-20°C to +85ºC Nylon fittings sizes 04-08
RTI 110ºC to EN60079-0

Special Characteristics

Surface resistivity $<10^6\Omega$

Non-metallic nylon conduit
EXBQ & EXPQ range - Metallic fittings

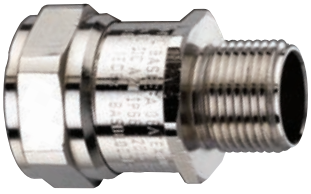
Features
- Manufactured in nickel plated brass
- Approved for use in Ex e applications for Zones 1, 2, 21 & 22
- Available in Metric & NPT thread
- EXPQM for use with unbraided nylon conduit
- EXBQA for use with braided nylon conduit

Certifications

Standards

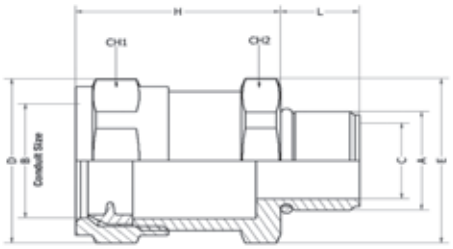
Approved to:	IEC EN 60079-0, 60079-7, 60079-31
EC Type examination certificate to:	ATEX: Baseefa 08 ATEX 0003X IECEx: IECEx BAS08.0001X Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +85ºC
IP test:	IP66

Non-metallic nylon conduit
EXBQ & EXPQ range - Metallic fittings



Type EXPQ
Nylon conduit fitting

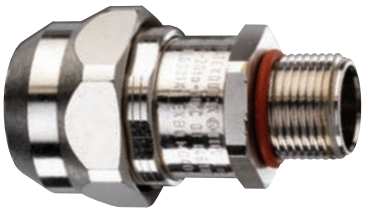
Dimensions



Type EXPQM / EXPQA for use with EXB and XESX conduits

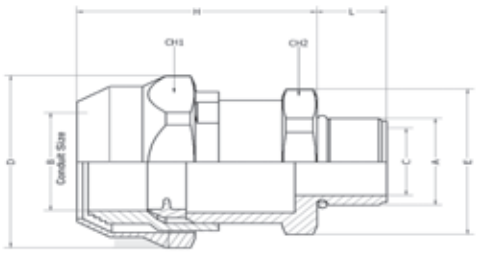
Nylon Conduit Fitting / **Materials:** Nickel plated brass

Part No.	Thread Size A	Nominal conduit size B (mm)	Cable gland dimensions (mm)						
			C	D	E	L	H	CH1	CH2
EXPQM0303	M16	16.0	11.4	27.4	25.9	16.0	33.3	25.4	24.0
EXPQM0304	M20	16.0	11.4	27.4	25.9	16.0	33.3	25.4	24.0
EXPQM0404	M20	21.0	15.8	30.2	30.2	16.0	32.0	28.0	28.0
EXPQM0505	M25	28.0	19.0	41.0	41.0	16.0	39.0	38.0	38.0
EXPQM0606	M32	34.0	26.4	48.1	45.4	17.0	40.0	44.5	42.0
EXPQM0707	M40	42.0	32.9	61.6	58.3	17.0	49.5	57.0	54.0
EXPQM0808	M50	54.0	43.9	75.6	75.6	16.0	48.0	70.0	70.0
EXPQM0909	M63	63.0	56.0	91.8	91.8	16.0	54.6	84.0	84.0
EXPQM1010	M75	80.0	67.5	104.0	104.0	16.0	52.6	95.3	95.3
EXPQA0304	1/2" NPT	16.0	11.4	33.2	26.6	18.0	43.5	30.0	24.0
EXPQA0404	1/2" NPT	21.0	15.8	38.8	31.0	16.0	43.5	35.0	28.0
EXPQA0505	3/4" NPT	28.0	19.0	49.3	42.1	16.0	50.0	44.5	38.0
EXPQA0606	1" NPT	34.0	26.4	55.4	46.5	18.0	51.0	50.0	42.0
EXPQA0707	1 1/4" NPT	42.0	32.9	77.6	59.8	18.0	67.5	70.0	54.0
EXPQA0808	1 1/2" NPT	54.0	43.9	93.1	77.6	16.0	70.0	84.0	70.0
EXPQA0909	2" NPT	63.0	56.0	91.8	91.8	16.0	54.6	84.0	84.0
EXPQA1010	2 1/2" NPT	80.0	67.5	104.0	104.0	16.0	52.6	95.3	95.3



Type EXBQ
Braided conduit fitting

Dimensions



Type EXBQM / EXBQA for use with EXBB conduit

Nylon Conduit Fitting / **Materials:** Nickel plated brass

Part No.	Thread Size A	Nominal conduit size B (mm)	Cable gland dimensions (mm)						
			C	D	E	L	H	CH1	CH2
EXBQM0303	M16	16.0	11.4	27.4	25.9	16.0	33.3	25.4	24.0
EXBQM0304	M20	16.0	11.4	25.9	27.4	20.0	32.5	24.0	25.4
EXBQM0404	M20	21.0	15.8	30.2	30.2	20.0	31.5	28.0	28.0
EXBQM0505	M25	28.0	19.0	41.0	41.0	20.2	38.3	38.0	38.0
EXBQM0606	M32	34.0	26.4	45.4	48.1	24.2	40.0	42.0	44.5
EXBQM0707	M40	42.0	32.9	58.3	61.6	25.8	49.5	54.0	57.0
EXBQM0808	M50	54.0	40.7	75.6	75.6	26.1	48.0	70.0	70.0
EXBQA0304	1/2" NPT	16.0	11.4	33.2	26.6	20.0	44.5	30.0	24.0
EXBQA0404	1/2" NPT	21.0	15.8	38.8	31.0	20.0	45.0	35.0	28.0
EXBQA0505	3/4" NPT	28.0	19.0	49.3	42.1	20.2	54.0	44.5	38.0
EXBQA0606	1" NPT	34.0	26.4	55.4	46.5	24.2	57.5	50.0	42.0
EXBQA0707	1 1/4" NPT	42.0	32.9	77.6	59.8	25.8	70.0	70.0	54.0
EXBQA0808	1 1/2" NPT	54.0	40.7	93.1	77.6	26.1	70.0	84.0	70.0

Non-metallic nylon conduit system
Nylon conduit fittings for XESX conduit

Features
- Manufactured in modified nylon 12 with nickel plated brass threads
- Approved for use in Ex e applications for Zones 1, 2, 21 & 22

Certifications

Standards

EC Type examination certificate to:	ATEX: SEV15ATEX0121 IECEX: IECEx SEV15.0009 Ex eb IIC Ex tb IIIC
Safe operating temperature range:	12-16mm -5°C to +85°C 21-54mm -20°C to + 85°C
IP test:	IP68

Non-metallic nylon conduit system
Nylon conduit fittings for XESX conduit (Ex only)

Type NENV
Straight male conduit fitting

Type NENV

Straight Male Conduit Fitting - Metric Thread / **Materials:** Anti-Static Nylon 12 with nickel plated brass thread

Part No.	Conduit Size (mm)		Metric Thread Size (mm)
	Metric	Nominal	
NENV0203	12	10	16
NENV0303	16	12	16
NENV0404	20	17	20
NENV0505	25	23	25
NENV0606	32	29	32
NENV0707	40	36	40
NENV0808	50	48	50
NENV0909	50	48	63

Type NENZ
Straight male conduit fitting
with strain relief

Type NENZ

Straight Male Conduit Fitting with Strain Relief - Metric Thread

Materials: Anti-Static Nylon 12 with nickel plated brass thread

Part No.	Conduit Size (mm)		Metric Thread Size (mm)
	Metric	Nominal	
NENZ0203S/P*	12	10	M16x1.5
NENZ0304S/P*	16	12	M20x1.5
NENZ0404S/P*	20	17	M20x1.5
NENZ0505S/P*	25	23	M25x1.5
NENZ0405S/P*	20	17	M25x1.5
NENZ0606S/P*	32	29	M32x1.5
NENZ0707S/P*	40	36	M40x1.5
NENZ0808S/P*	50	48	M50x1.5

* Available with various clamping ranges

Type NEBV
90° Curved elbow fitting

Type NEBV

90° Curved Elbow Fitting - Metric Thread / **Materials:** Anti-Static Nylon 12 with nickel plated brass thread

Part No.	Conduit Size (mm)		Metric Thread Size (mm)
	Metric	Nominal	
NEBV0404	20	17	20
NEBV0505	25	23	25
NEBV0606	32	29	32
NEBV0707	40	36	40
NEBV0808	50	48	50

Type NEWV
90° Elbow fitting

Type NEWV

90° Elbow Fitting - Metric Thread / **Materials:** Anti-Static Nylon 12 with nickel plated brass thread

Part No.	Conduit Size (mm)		Metric Thread Size (mm)
	Metric	Nominal	
NEWV0303	16	12	16

Non-metallic nylon conduit system
Nylon conduit fittings for XESX conduit

Type NEAV
45º Elbow fitting

Type NEAV

45º Elbow Fitting - Metric Thread / **Materials:** Anti-Static Nylon 12 with nickel plated brass thread

Part No.	Conduit Size (mm)		Metric Thread Size (mm)
	Metric	Nominal	
NEAV0303	16	12	16
NEAV0404	20	17	20
NEAV0505	25	23	25
NEAV0606	32	29	32
NEAV0707	40	36	40
NEAV0808	50	48	50

Type BESGR
Splice connector

Type BESGR

Splice Connector / **Materials:** Anti-Static Nylon 12

Part No.	Conduit Size (mm)	
	Metric	Nominal
BESGR0303	16	12
BESGR0404	20	17
BESGR0505	25	23
BESGR0606	32	29
BESGR0707	40	36
BESGR0808	50	48

Type BEYR
'Y' Piece

Type BEYR

'Y' Piece / **Materials:** Anti-Static Nylon 12

Part No.	Conduit Size (mm)		2 x Conduit Size (mm)	
	Metric	Nominal	Metric	Nominal
BEYR030202	16	12	12	10
BEYR040303	20	17	16	12
BEYR050404	25	23	20	17
BEYR060505	32	29	25	23
BEYR070606	40	36	32	29
BEYR080707	50	48	40	36

Type BETR
'T' Piece

Type BETR

'T' Piece / **Materials:** Anti-Static Nylon 12

Part No.	Conduit Size (mm)	
	Metric	Nominal
BETR020202	12	10
BETR030303	16	12
BETR040404	20	17
BETR050505	25	23
BETR060606	32	29
BETR070707	40	36
BETR080808	50	48

Non-metallic nylon conduit system
Nylon conduit fittings for XESX conduit

Type BEAVR
Conduit adapter

Type BEAVR

Conduit Adapter / **Materials:** Anti-Static Nylon 12

	Fits into Fitting for Conduit Size (mm)		Fits to Conduit Size (mm)	
Part No.	Metric	Nominal	Metric	NW
BEAVR03/02	16	12	12	10
BEAVR04/03	20	17	16	12
BEAVR05/04	25	23	20	17
BEAVR06/05	32	29	25	23
BEAVR07/06	40	36	32	29
BEAVR08/07	50	48	40	36

Type NEIR
Straight female conduit fitting

Type NEIR

Straight Female Conduit Fitting - Metric Thread / **Materials:** Anti-Static Nylon 12 with nickel plated brass thread

	Conduit Size (mm)		Metric Female
Part No.	Metric	Nominal	Thread Size (mm)
NEIR0303	16	12	M16
NEIR0404	20	17	M20
NEIR0505	25	23	M25
NEIR0606	32	29	M32
NEIR0707	40	36	M40
NEIR0808	50	48	M50

Type BENRRE
Corrugated conduit to rigid metal pipe connection

Type BENRRE

Corrugated Conduit to Rigid Metal Pipe Connection

Materials: Anti-Static Nylon 12, Stainless Steel Jubilee Clip

	Conduit Size (mm)		Steel Tube
Part No.	Metric	Nominal	Thread Size (mm)
BENRRE030324	16	12	M16
BENRRE040428	20	17	M20
BENRRE050532	25	23	M25
BENRRE060644	32	29	M32
BENRRE070750	40	36	M40
BENRRE080865	50	48	M50

Type BEH
Conduit clip

Type BEH

Conduit Clip

Materials: Anti-Static Nylon 12

	Conduit Size (mm)		
Part No.	Metric	Nominal	
BEH02	12	10	
BEH03	16	12	
BEH04	20	17	
BEH05	25	23	
BEH06	32	29	
BEH07	40	36	
BEH08	50	48	

Liquid tight conduit
EXLB & EXSB range

EXLB Range
General oil resistant liquid tight conduit - Galvanised steel core

EXLB Range

General Oil Resistant Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a general purpose oil resistant coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXLB03*	16	3/8	12.5	10/30
EXLB04*	20	1/2	16.0	10/30
EXLB05*	25	3/4	21.0	10/30
EXLB06*	32	1	26.4	10/20
EXLB07*	40	1 1/4	35.3	10/20
EXLB08*	50	1 1/2	40.4	10/20
EXLB09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLB0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -25°C to +105°C

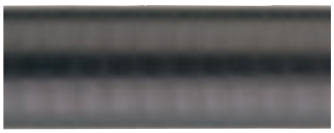
Flexing temp: -5°C to +105°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame retardant PVC covering



EXSB Range
General oil resistant liquid tight conduit - Stainless steel core

EXSB Range

General Oil Resistant Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel 316 core with general purpose oil resistant coating / **Colour:** ● Black

Part No.	Conduit Size Metric (mm)	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXSB03*	16	3/8	12.5	10/30
EXSB04*	20	1/2	16.0	10/30
EXSB05*	25	3/4	21.0	10/30
EXSB06*	32	1	26.4	10/20
EXSB07*	40	1 1/4	35.3	10/20
EXSB08*	50	1 1/2	40.4	10/20
EXSB09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXSB0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -25°C to +105°C

Flexing temp: -5°C to +105°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame retardant PVC covering

Liquid tight conduit
EXLT & EXST range

EXLT Range
Low fire hazard liquid tight conduit - Galvanised steel core

EXLT Range

Low Fire Hazard Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a LFH coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXLT03*	16	3/8	12.5	10/30
EXLT04*	20	1/2	16.0	10/30
EXLT05*	25	3/4	21.0	10/30
EXLT06*	32	1	26.4	10/20
EXLT07*	40	1 1/4	35.3	10/20
EXLT08*	50	1 1/2	40.4	10/20
EXLT09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLT0510

Certifications

Certifications & Standards

Certification standard: IEC 61386

LUL fully compliant (E1042A6)

MOD to NES 518: Issue 3 DEF STAN 61-12 (Part 31) Issue 1

Temperature Range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Limited fire hazard, zero halogen (BS6425 Pt 1)

EXST Range
Low fire hazard liquid tight conduit - Stainless steel core

EXST Range

Low Fire Hazard Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel core with a LFH coating / **Colour:** ● Black

Part No.	Conduit Size Metric (mm)	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXST03*	16	3/8	12.5	10/30
EXST04*	20	1/2	16.0	10/30
EXST05*	25	3/4	21.0	10/30
EXST06*	32	1	26.4	10/20
EXST07*	40	1 1/4	35.3	10/20
EXST08*	50	1 1/2	40.4	10/20
EXST09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXST0510

Certifications

Standards

Certification standard: IEC 61386

LUL fully compliant (E1042A6)

MOD to NES 518: Issue 3 DEF STAN 61-12 (Part 31) Issue 1

Temperature Range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Limited fire hazard, zero halogen (BS6425 Pt 1)

Liquid tight conduit
EXLH & EXSH range

EXLH Range
High temperature liquid tight conduit - Galvanised steel core

EXLH Range

High Temperature Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a high temperature resistant coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXLH03*	16	3/8	12.5	10/30
EXLH04*	20	1/2	16.0	10/30
EXLH05*	25	3/4	21.0	10/30
EXLH06*	32	1	26.4	10/20
EXLH07*	40	1 1/4	35.3	10/20
EXLH08*	50	1 1/2	40.4	10/20
EXLH09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLH0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -50°C to +130°C

Flexing temp: -5°C to +90°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame resistance: UL94 V2

Chemical and oil resistant

EXSH Range
High temperature liquid tight conduit - Stainless steel core

EXSH Range

High Temperature Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel core with a high temperature resistant coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXSH03*	16	3/8	12.5	10/30
EXSH04*	20	1/2	16.0	10/30
EXSH05*	25	3/4	21.0	10/30
EXSH06*	32	1	26.4	10/20
EXSH07*	40	1 1/4	35.3	10/20
EXSH08*	50	1 1/2	40.4	10/20
EXSH09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXSH0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -50°C to +130°C

Flexing temp: -5°C to +90°C

Flame propogation

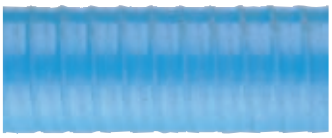
Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame resistance: UL94 V2

Chemical and oil resistant

Liquid tight conduit
EXLLH & EXSLH range



EXLLH Range
High temperature liquid tight conduit - Galvanised steel core

EXLLH Range

High Temperature Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a high temperature resistant coating / **Colour:** ● Blue

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXLLH03*	16	3/8	12.5	10/30
EXLLH04*	20	1/2	16.0	10/30
EXLLH05*	25	3/4	21.0	10/30
EXLLH06*	32	1	26.4	10/20
EXLLH07*	40	1 1/4	35.3	10/20
EXLLH08*	50	1 1/2	40.4	10/20
EXLLH09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLLH0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -50°C to +130°C

Flexing temp: -5°C to +90°C

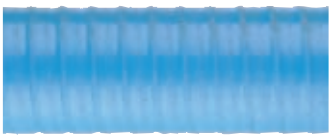
Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame resistance: UL94 V2

Chemical and oil resistant



EXSLH Range
High temperature liquid tight conduit - Stainless steel core

EXSLH Range

High Temperature Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel core with a high temperature resistant coating / **Colour:** ● Blue

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXSLH03*	16	3/8	12.5	10/30
EXSLH04*	20	1/2	16.0	10/30
EXSLH05*	25	3/4	21.0	10/30
EXSLH06*	32	1	26.4	10/20
EXSLH07*	40	1 1/4	35.3	10/20
EXSLH08*	50	1 1/2	40.4	10/20
EXSLH09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXSLH0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -50°C to +130°C

Flexing temp: -5°C to +90°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

Flame resistance: UL94 V2

Chemical and oil resistant

Liquid tight conduit
EXBBT & EXSBBT range

EXBBT Range
Low fire hazard with EMC protection liquid tight conduit - Galvanised steel core

EXBBT Range

Low Fire Hazard with EMC Protection Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a galvanised steel EMC shield and LFH covering / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXBBT03*	16	3/8	12.5	10/30
EXBBT04*	20	1/2	16.0	10/30
EXBBT05*	25	3/4	21.0	10/30
EXBBT06*	32	1	26.4	10/20
EXBBT07*	40	1 1/4	35.3	10/20
EXBBT08*	50	1 1/2	40.4	10/20

* Add coil length to complete part number, e.g. 10 metres = EXBBT0510

Certifications

Standards

Certification standard: IEC 61386

MOD to NES 518: Issue 3 DEF STAN 61-12 (Part 31) Issue 1

Temperature Range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Special Characteristics

Limited Fire Hazard covering

EMC Screening level: 60db at 1MHz Braided

EXSBBT Range
Low fire hazard with EMC protection liquid tight conduit - Stainless steel core

EXSBBT Range

Low Fire Hazard with EMC Protection Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel core with a galvanised steel EMC shield and LFH covering / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXSBBT03*	16	3/8	12.5	10/30
EXSBBT04*	20	1/2	16.0	10/30
EXSBBT05*	25	3/4	21.0	10/30
EXSBBT06*	32	1	26.4	10/20
EXSBBT07*	40	1 1/4	35.3	10/20
EXSBBT08*	50	1 1/2	40.4	10/20

* Add coil length to complete part number, e.g. 10 metres = EXSBBT0510

Certifications

Standards

Certification standard: IEC 61386

MOD to NES 518: Issue 3 DEF STAN 61-12 (Part 31) Issue 1

Temperature Range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Special Characteristics

Limited Fire Hazard covering

EMC Screening level: 60db at 1MHz Braided

Liquid tight conduit
EXLHC & EXSHC range

EXLHC Range
High temperature, highly flexible liquid tight conduit - Galvanised steel core

EXLHC Range

High Temperature, Highly Flexible Liquid Tight Conduit - Galvanised Steel Core

Materials: Galvanised steel core with a high temperature, highly flexible coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXLHC03*	16	3/8	12.5	10/30
EXLHC04*	20	1/2	16.0	10/30
EXLHC05*	25	3/4	21.0	10/30
EXLHC06*	32	1	26.4	10/20
EXLHC07*	40	1 1/4	35.3	10/20
EXLHC08*	50	1 1/2	40.4	10/20
EXLHC09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLHC0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -65°C to +150°C

Flexing temp: -45°C to +135°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

High flexibility

High temperature

EXSHC Range
High temperature, highly flexible liquid tight conduit - Stainless steel core

EXSHC Range

High Temperature, Highly Flexible Liquid Tight Conduit - Stainless Steel Core

Materials: Stainless steel core with a high temperature, highly flexible coating / **Colour:** ● Black

Part No.	Conduit Size Metric	US Trade Size (inch)	Inside Diameter (mm)	Coil Lengths (m)
EXSHC03*	16	3/8	12.5	10/30
EXSHC04*	20	1/2	16.0	10/30
EXSHC05*	25	3/4	21.0	10/30
EXSHC06*	32	1	26.4	10/20
EXSHC07*	40	1 1/4	35.3	10/20
EXSHC08*	50	1 1/2	40.4	10/20
EXSHC09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXSHC0510

Certifications

Standards

Certification standard: IEC 61386

Temperature Range

Static temp: -65°C to +150°C

Flexing temp: -45°C to +135°C

Flame propogation

Flame dies in less than 30 seconds after ignition source is removed

Special Characteristics

High flexibility

High temperature

Liquid tight hazardous area flameproof glands
G1 conduit fitting

Features

– Constructed from either brass or stainless steel with an epoxy resin barrier the Group I flameproof gland is a high specification product, ideal for all hazardous area applications

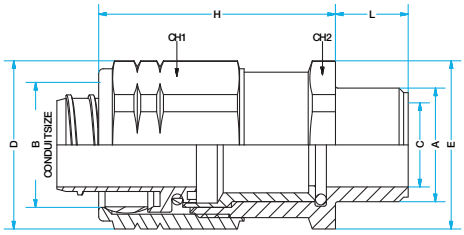
Certifications

Standards

Approved to:	IEC EN 60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	ATEX: Sira 09 ATEX 1231X IECEx: IECEx SIR09.0103X CSA: CSA File No: 060582
	Ex de I Mb
	Ex de IIC Gb
	Ex tb IIIC Db
	Class I Div 2 ABCD
	Class II Div 1 EFG
Safe operating temperature range:	-60°C to +130°C
IP test:	IP66

Liquid tight hazardous area flameproof glands
G1 conduit fitting

G1 conduit fitting
Liquid tight hazardous area flameproof gland



Dimensions

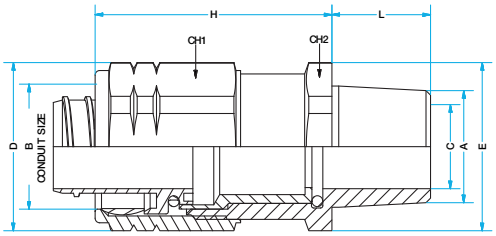
HAM G1 conduit fitting

Liquid Tight Hazardous Area Flameproof Gland - Metric Thread / **Materials:** Nickel plated brass, Brass or Stainless steel 316

Part No. Nickel plated brass	Metric Thread Size A (mm)	Conduit Size B (mm)	Cable Gland Dimensions (mm)						
			C	D	E	L	H	CH1	CH2
HAMM0304G1	M16	16.0	10.0	34.0	31.0	15.0	50.0	32.0	28.6
HAMM0404G1	M20	20.0	12.5	34.0	31.0	15.0	50.0	32.0	28.6
HAMM0505G1	M25	25.0	18.4	37.0	37.0	15.0	50.0	34.0 (34.9 in SS)	34.0
HAMM0606G1	M32	32.0	24.7	45.0	45.0	15.0	50.0	42.0 (42.5 in SS)	42.0
HAMM0707G1	M40	40.0	29.7	57.0	54.0	15.0	57.0	52.0	50.0
HAMM0808G1	M50	50.0	41.7	64.0	64.0	15.0	58.0	60.0	60.0
HAMM0909G1	M63	63.0	51.7	78.0	76.2	15.0	70.6	69.7	70.0

* For Brass version, remove last M from the reference, e.g. HAM0304G1 for Metric / HAA0304G1 for NPT

** For Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304G1 for Metric / HAAS0304G1 for NPT



Dimensions

HAA G1 conduit fitting

Liquid Tight Hazardous Area Flameproof G1 Gland - NPT Thread / **Materials:** Nickel plated brass, Brass or Stainless steel 316

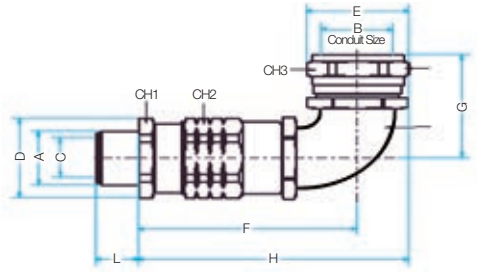
Part No. Nickel plated brass	NPT Thread Size A (inch)	Conduit Size B (mm)	Cable Gland Dimensions (mm)						
			C	D	E	L	H	CH1	CH2
HAAM0304G1	1/2	16.0	10.0	34.0	31.0	20.2	50.0	32.0	28.6
HAAM0404G1	1/2	20.0	12.5	34.0	31.0	20.2	50.0	32.0	28.6
HAAM0505G1	3/4	25.0	18.4	37.0	37.0	20.2	50.0	34.0 (34.9 in SS)	34.0
HAAM0606G1	1	32.0	24.7	45.0	45.0	25.0	50.0	42.0 (42.5 in SS)	42.0
HAAM0707G1	1 1/4	40.0	29.7	57.0	54.0	25.6	57.0	52.0	50.0
HAAM0808G1	1 1/2	50.0	41.7	64.0	64.0	26.0	58.0	60.0	60.0
HAAM0909G1	2	63.0	51.7	78.0	76.2	27.0	70.6	69.7	70.0

* For Brass version, remove last M from the reference, e.g. HAM0304G1 for Metric / HAA0304G1 for NPT

** For Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304G1 for Metric / HAAS0304G1 for NPT

Liquid tight hazardous area flameproof glands
G1 90º elbow conduit fitting

G1 90º Elbow Gland
Liquid tight hazardous area
flameproof gland



Dimensions

HAM G1 90º Elbow conduit fitting

Liquid Tight Hazardous Area Flameproof Gland - Metric Thread / **Materials:** Nickel plated brass or Stainless steel 316

Part No. Nickel plated brass	Metric Thread Size A (mm)	Conduit Size B (mm)	Cable Gland Dimensions (mm)									
			C	D	E	F	G	H	L	CH1	CH2	CH3
HAMM0304E	M16	16.0	10.0	31.7	35.5	94.0	35.0	90.0	15.0	28.6	32.0	32.0
HAMM0404E	M20	21.0	12.5	31.7	35.5	95.0	335.0	90.0	15.0	28.6	32.0	32.0
HAMM0505E	M25	28.0	18.4	37.7	38.7	101.0	36.0	104.0	15.0	34.0	34.0 (34.9 in SS)	34.0 (34.9 in SS)
HAMM0606E	M32	34.0	24.7	46.5	46.5	109.0	40.0	114.0	15.0	42.0	42.0 (42.5 in SS)	42.0 (42.5 in SS)
HAMM0707E	M40	42.0	29.7	55.4	57.6	115.0	48.0	180.0	15.0	50.0	52.0	52.0
HAMM0808E	M50	54.0	41.7	66.5	66.5	123.0	56.0	146.0	15.0	60.0	60.0	60.0

* For Brass version, remove last M from the reference, e.g. HAM0304E for Metric / HAA0304E for NPT

** For Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304E for Metric / HAAS0304E for NPT

HAA G1 90º Elbow conduit fitting

Liquid Tight Hazardous Area Flameproof Gland - NPT Thread / **Materials:** Nickel plated brass or Stainless steel 316

Part No. Nickel plated brass	NPT Thead Size A (inch)	Conduit Size B (mm)	Cable Gland Dimensions (mm)									
			C	D	E	F	G	H	L	CH1	CH2	CH3
HAAM0304E	1/2	16.0	10.0	31.7	35.5	98.0	35.0	90.0	20.2	28.6	32.0	32.0
HAAM0404E	1/2	21.0	12.5	31.7	35.5	98.0	335.0	90.0	20.2	28.6	32.0	32.0
HAAM0505E	3/4	28.0	18.4	37.7	38.7	103.4	36.0	104.0	20.2	34.0	34.0 (34.9 in SS)	34.0 (34.9 in SS)
HAAM0606E	1	34.0	24.7	46.5	46.5	103.4	40.0	114.0	25.0	42.0	42.0 (42.5 in SS)	42.0 (42.5 in SS)
HAAM0707E	1 1/4	42.0	29.7	55.4	57.6	120.0	48.0	180.0	25.6	50.0	52.0	52.0
HAAM0808E	1 1/2	54.0	41.7	66.5	66.5	126.0	56.0	146.0	26.0	60.0	60.0	60.0

* For Brass version, remove last M from the reference, e.g. HAM0304E for Metric / HAA0304E for NPT

** For Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304E for Metric / HAAS0304E for NPT

Liquid tight hazardous area flameproof glands
Universal fitting

Features

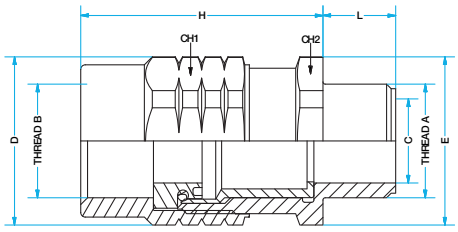
- Constructed from either brass, nickel plated or stainless steel with an epoxy resin barrier
- The Group I universal flameproof gland is a high specification product, ideal for all hazardous area applications

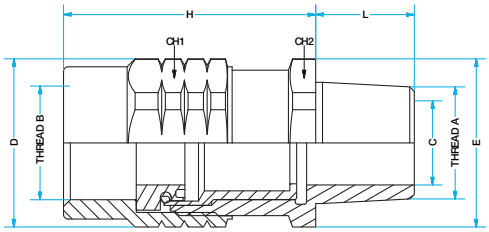
Certifications

Standards

Approved to:	IEC EN 60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	ATEX: Sira 09 ATEX 1231X IECEx: IECEx SIR09.0103X CSA: CSA File No: 060582
	Ex de I Mb
	Ex de IIC Gb
	Ex tb IIIC Db
	Class I Div 1 BCD (Rigid conduit only)
	Class I Div 2 ABCD
	Class II Div 1 ABCD
Safe operating temperature range:	-60°C to +130°C
IP test:	IP66

Liquid tight hazardous area flameproof glands
Universal fitting





Dimensions

HAM 03 04 U

Thread A = M16 — Thread B = M20

HAA 03 04 U

Thread A = 3/8" — Thread B = 1/2"

Universal fitting
Liquid tight hazardous area flameproof gland

HAM Universal fitting

Liquid Tight Hazardous Area Flameproof Gland - Metric Thread

Materials: Nickel plated, Brass or Stainless steel

Part No.	Male Thread Size Metric (mm)	Female Thread Size Metric (mm)
Nickel Plated		
HAMM0304U	20	16
HAMM0404U	20	20
HAMM0505U	25	25
HAMM0606U	32	32
HAMM0707U	40	40
HAMM0808U	50	50
HAMM0909U	63	63
Brass		
HAM0304U	20	16
HAM0404U	20	20
HAM0505U	25	25
HAM0606U	32	32
HAM0707U	40	40
HAM0808U	50	50
HAM0909U	63	63
Stainless Steel		
HAMS0304U	20	16
HAMS0404U	20	20
HAMS0505U	25	25
HAMS0606U	32	32
HAMS0707U	40	40
HAMS0808U	50	50
HAMS0909U	63	63

* For use with rigid conduit or other fittings

HAA Universal fitting

Liquid Tight Hazardous Area Flameproof Gland - NPT Thread

Materials: Nickel plated brass, Brass or Stainless steel

Part No. - NPT	Male Thread Size NPT (inch)	Female Thread Size NPT (inch)
Nickel Plated		
HAAM0304U	1/2	3/8
HAAM0404U	1/2	1/2
HAAM0505U	3/4	3/4
HAAM0606U	1	1
HAAM0707U	1 1/4	1 1/4
HAAM0808U	1 1/2	1 1/2
HAAM0909U	2	2
Brass		
HAA0304U	1/2	3/8
HAA0404U	1/2	1/2
HAA0505U	3/4	3/4
HAA0606U	1	1
HAA0707U	1 1/4	1 1/4
HAA0808U	1 1/2	1 1/2
HAA0909U	2	2
Stainless Steel		
HAAS0304U	1/2	3/8
HAAS0404U	1/2	1/2
HAAS0505U	3/4	3/4
HAAS0606U	1	1
HAAS0707U	$1^{1}/_{4}$	$1^{1}/_{4}$
HAAS0808U	1 1/2	1 1/2
HAAS0909U	2	2

* For use with rigid conduit or other fittings

Explosion-proof flexible couplings
XP Flex™ range

Features

- UL listed for use in hazardous and wet locations
- Corrosion-resistant - ideal for washdown areas
- Flexible bronze construction with arc-resistant inner sleeve and brass fittings
- Terminated with two threaded female end fittings and male close nipples
- No bonding jumper required

Certifications

Intertek

CLASS I DIV 1 DIV 2

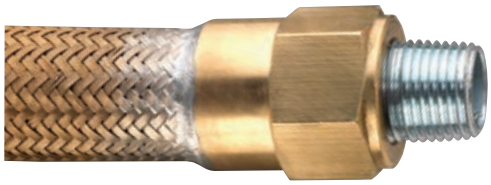
CLASS II DIV 1

CLASS III

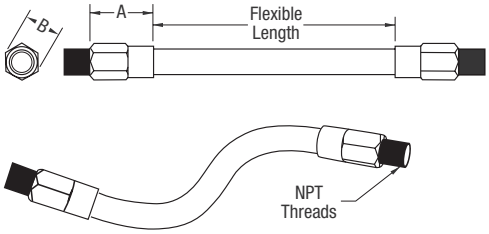
Standards

UL listed:	0.5" and 0.75" hub sizes: Class I Div 1 & 2 ABCD; Class II Div 1 EFG, Class III 1" hub size: Class I Div 1 & 2 CD; Class II Div 1 EFG, Class III UL listed 886

Explosion-proof flexible couplings
XP Flex™ range



XP Flex™ Range
Explosion-proof flexible couplings
flameproof gland



Dimensions

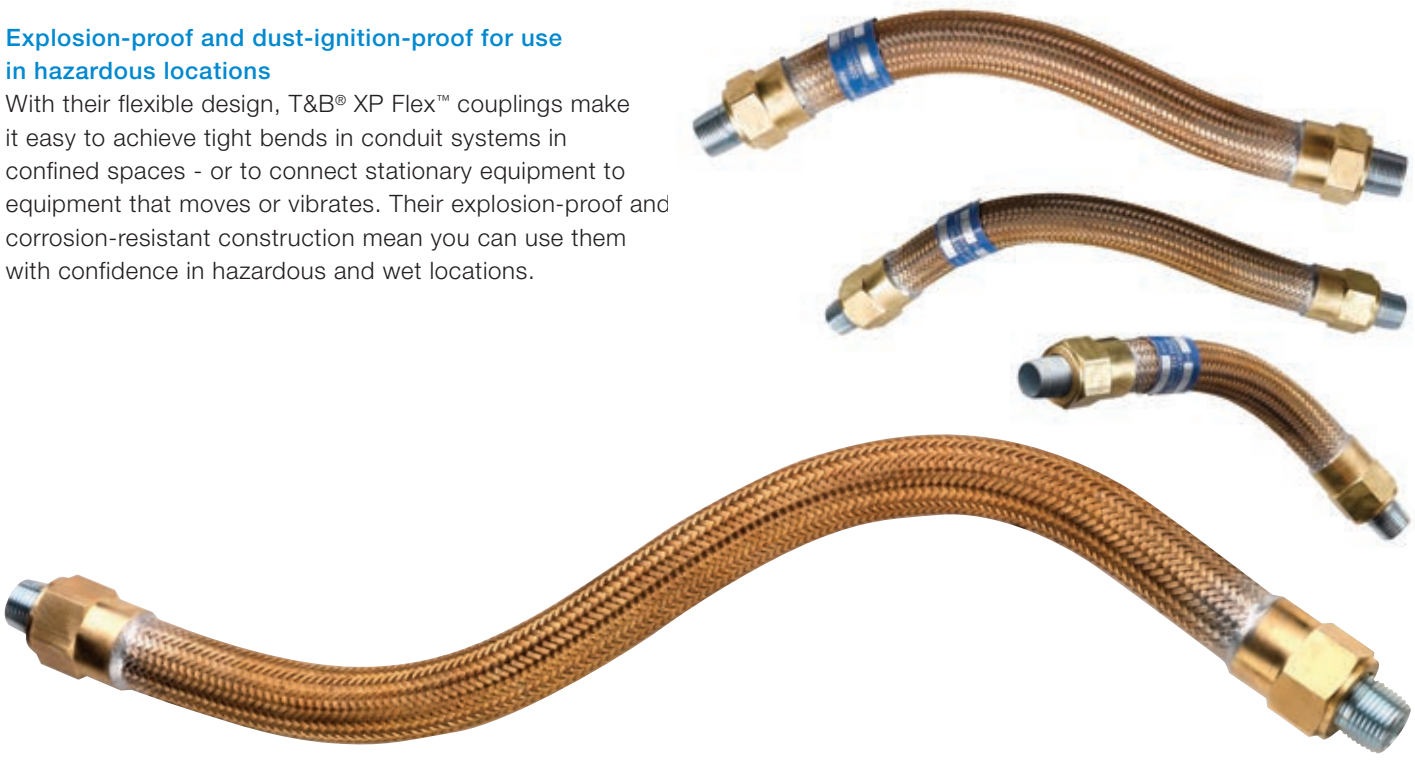
XP Flex™ Range

Explosion-proof Flexible Couplings - Metric Thread / **Materials:** Bronze construction with brass fittings

Part No.	NPT Thread Size (inch)	Flexible Length (mm)	Dimensions	
			A	B
XPLFL16	1/2	150	39.1	36.6
XPLFL18	1/2	200	39.1	36.6
XPLFL110	1/2	250	39.1	36.6
XPLFL112	1/2	300	39.1	36.6
XPLFL115	1/2	380	39.1	36.6
XPLFL118	1/2	460	39.1	36.6
XPLFL124	1/2	610	39.1	36.6
XPLFL212	3/4	300	40.6	47.5
XPLFL215	3/4	380	40.6	47.5
XPLFL218	3/4	460	40.6	47.5
XPLFL224	3/4	610	40.6	47.5
XPLFL236	3/4	915	40.6	47.5
XPLFL318	1	460	50.08	58.7

Explosion-proof and dust-ignition-proof for use in hazardous locations

With their flexible design, T&B® XP Flex™ couplings make it easy to achieve tight bends in conduit systems in confined spaces - or to connect stationary equipment to equipment that moves or vibrates. Their explosion-proof and corrosion-resistant construction mean you can use them with confidence in hazardous and wet locations.



Cable glands
for hazardous areas

Cable Glands

Cable glands for hazardous areas
Cable glands - Selection guide

	Ex d & Ex e Cable glands							
Type	**Ex d e Armoured cable glands**	**Ex d e Unarmoured cable glands**	**Ex d cable glands**	**Ex d e Flameproof unarmoured cable glands**	**Ex d e Flameproof armoured cable glands**	**Ex d e EMC cable glands**	**Ex e Nylon cable glands**	**ISR series Industrial strain relief fitting**
Approvals								
ATEX	•	•	•	•	•	•	•	•
IEC / IECEx	•	•	•	•	•	•	•	•
CSA	–	–	–	–	–	–	–	•
UL	•	•	–	–	–	–	–	–
Protection Type								
Ex e	•	•	•	•	•	•	•	•
Ex d	•	•	•	•	•	–	•	–
Ex ta	–	–	–	–	–	–	–	•
Ex tb	•	•	•	•	•	•	•	–
Zones								
Zone 1	•	•	•	•	•	•	•	•
Zone 2	•	•	•	•	•	•	•	•
Zone 20	–	–	–	–	–	–	–	•
Zone 21	•	•	•	•	•	•	•	•
Zone 22	•	•	•	•	•	•	•	•
Class / Division								
Class I / Div 1	–	–	–	–	–	–	–	–
Class I / Div 2	–	–	–	–	–	–	–	•
Class II / Div 1	–	–	–	–	–	–	–	–
Class II / Div 2	–	–	–	–	–	–	–	•
Class III / Div 1	–	–	–	–	–	–	–	–
Class III / Div 2	–	–	–	–	–	–	–	•
Section 3 / Page No.	3/4	3/6	3/8	3/10	3/12	3/14	3/16	3/18

Cable glands for Teck cable	
Star Teck XP® (STX) series	**Star Teck Extreme XP® (STEX) series**
–	–
–	–
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•	•
•	•
•	•
•	•
•	•
3/20	3/22

Cable glands for hazardous areas
C1 Series - Ex d e double compression cable gland

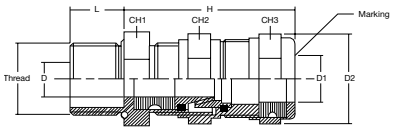
Features
- 4 function double compression cable gland
- Suitable for use with SWA (Steel Wire Armoured), SWB (Steel Wire Braid) or AWA (Aluminium Wire Armoured)
- Flameproof Ex d and increased safety Ex e
- Available in brass, nickel plated brass and stainless steel 316
- Wide range of cable sizes

Certifications

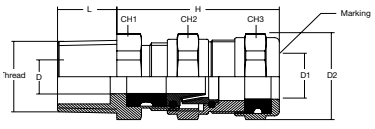
Standards

Approved to:	IEC EN60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	CESI 13 ATEX 041X, IECEx CES 13.0014X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +100°C
IP test:	IP66-68 (5-Bar 30 mins)

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas
C1 Series - Ex d e double compression cable gland

C1 Series

Ex d e Double Compression Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Sealing Range (mm)		Cable Gland Dimensions (mm)						Torque (Nm)	
		D (min-max)	D1 (min-max)	H Min	L Min	CH1	CH2	CH3	D2 Min	CH2	CH3
Nickel Plated Brass											
EXN03MSC1	M16 x 1.5	3 - 8.5	6 - 12	47	16	22	26	26	29	27.0	25.0
EXN03MMC1	M16 x 1.5	6 - 12	8.5 - 16	48	16	25	29	29	31.5	49.0	28.0
EXN04MSC1	M20 x 1.5	3 - 8.5	6 - 12	47	16	24	26	26	29	27.0	25.0
EXN04MMC1	M20 x 1.5	6 - 12	8.5 - 16	47	16	25	29	29	31.5	49.0	28.0
EXN04MLC1	M20 x 1.5	12 - 14.5	16 - 20	50	16	28	30	32	35	33.0	33.0
EXN05MSC1	M25 x 1.5	6 - 12	8.5 - 16	48	18	29	29	29	31.5	49.0	28.0
EXN05MMC1	M25 x 1.5	12 - 16	16 - 21	53	18	32	34	34	37	30.0	27.0
EXN05MLC1	M25 x 1.5	12 - 20	16 - 26	60	18	36	40	40	44	61.0	32.0
EXN06MSC1	M32 x 1.5	12 - 20	16 - 26	62	18	40	40	40	44	61.0	32.0
EXN06MMC1	M32 x 1.5	15 - 26	20 - 33	78	18	48	52	52	57	86.0	40.0
EXN07MSC1	M40 x 1.5	15 - 26	20 - 33	78	18	48	52	52	57	86.0	40.0
EXN07MMC1	M40 x 1.5	20 - 32	29 - 41	89	18	55	60	60	66	110.0	75.0
EXN08MSC1	M50 x 1.5	22 - 35	33 - 48	97	18	60	70	75	82	110.0	75.0
EXN08MMC1	M50 x 1.5	27 - 41	36 - 52	100	18	70	70	74	83	125.0	75.0
EXN09MSC1	M63 x 1.5	35 - 45	43 - 57	106	20	75	80	80	89.5	160.0	140.0
EXN09MMC1	M63 x 1.5	40 - 52	47 - 60	107	20	85	85	85	94	250.0	100.0
EXN10MSC1	M75 x 1.5	40 - 52	47 - 60	107	20	85	85	85	94	250.0	100.0
EXN10MMC1	M75 x 1.5	45 - 60	54 - 70	125	20	90	95	100	110.5	250.0	150.0
EXN11MSC1	M90 x 1.5	45 - 60	54 - 70	125	20	95	95	100	110.5	250.0	150.0
EXN11MMC1	M90 x 1.5	60 - 72	63 - 80	154	20	110	115	115	127	320.0	210.0

Ex d e Double Compression Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Sealing Range (mm)		Cable Gland Dimensions (mm)						Torque (Nm)	
		D (min-max)	D1 (min-max)	H Min	L Min	CH1	CH2	CH3	D2 Min	CH2	CH3
Nickel Plated Brass											
EXN03ASC1	3/8"	3 - 8,5	6 - 12	47	16	22	26	26	29	27.0	25.0
EXN03AMC1	3/8"	6 - 12	8.5 - 16	48	16	25	29	29	31.5	49.0	28.0
EXN04ASC1	1/2"	3 - 8.5	6 - 12	47	21	24	26	26	29	27.0	25.0
EXN04AMC1	1/2"	6 - 12	8.5 - 16	47	21	25	29	29	31.5	49.0	28.0
EXN04ALC1	1/2"	12 - 14.5	16 - 20	50	21	28	30	32	35	33.0	33.0
EXN05ASC1	3/4"	6 - 12	8.5 - 16	48	21	29	29	29	31.5	49.0	28.0
EXN05AMC1	3/4"	12 - 16	16 - 21	53	21	32	34	34	37	30.0	27.0
EXN05ALC1	3/4"	12 - 20	16 - 26	60	21	36	40	40	44	61.0	32.0
EXN06ASC1	1"	12 - 20	16 - 26	62	26	40	40	40	44	61.0	32.0
EXN06AMC1	1"	15 - 26	20 - 33	78	26	48	52	52	57	86.0	40.0
EXN07ASC1	1 1/4"	15 - 26	20 - 33	78	28	48	52	52	57	86.0	40.0
EXN07AMC1	1 1/4"	20 - 32	29 - 41	89	28	55	60	60	66	110.0	75.0
EXN08ASC1	1 1/2"	22 - 35	33 - 48	97	28	60	70	75	82	110.0	75.0
EXN08AMC1	1 1/2"	27 - 41	36 - 52	100	28	70	70	74	83	125.0	75.0
EXN09ASC1	2"	35 - 45	43 - 57	106	28	75	80	80	89.5	160.0	140.0
EXN09AMC1	2"	40 - 52	47 - 60	107	28	85	85	85	94	250.0	100.0
EXN10ASC1	2 1/2"	40 - 52	47 - 60	107	41	85	85	85	94	250.0	100.0
EXN10AMC1	2 1/2	45 - 60	54 - 70	125	41	90	95	100	110.5	250.0	150.0
EXN11ASC1	3"	45 - 60	54 - 70	125	43	95	95	100	110.5	250.0	150.0
EXN11AMC1	3"	60 - 72	63 - 80	154	43	110	115	115	127	320.0	210.0

* For Brass version, remove N to the reference, e.g. EX03MSC1 for Metric / EX03ASC1 for NPT

** For Stainless Steel version, add S to the reference, e.g. EXS03MSC1 for Metric / EXS03ASC1 for NPT

*** To purchase cable glands with locknuts, shrouds, earth tags, and washers where appropriate add a K to the end of the part number, e.g EX04MMC1K

Cable glands for hazardous areas
C2 Series - Ex d e single compression cable gland

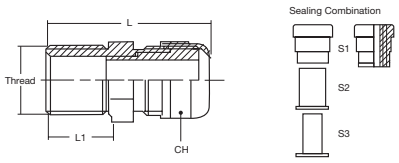
Features
- Flameproof Ex d and increased safety Ex e
- Available in brass, nickel plated brass and stainless steel 316
- Wide range of cable sizes
- Kits available

Certifications

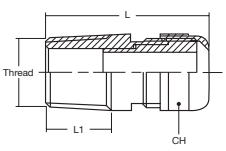
Standards

Approved to:	IEC EN 60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	IMQ 14 ATEX 013X IECEx IMQ14.0005X Ex d IIC Gb, Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +80°C
IP test:	IP66-68 (5-Bar 30 mins)

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas
C2 Series - Ex d e single compression cable gland

C2 Series

Ex d e Single Compression Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Cable Gland Dimensions (mm)			Sealing Ring Dimensions (mm)				Torque (Nm)		
		L	L1 Min	CH (body / cap)	Min-Max	S1+S2+S3	S1+S2	S1	S1+S2+S3	S1+S2	S1
Nickel Plated Brass											
EXN03MMC2	M16 x 1.5	40	16	22	4,0 - 12,0	4-6	6-9	9-12	20	18	15
EXN04MMC2	M20 x 1.5	40	16	22	4,0 - 12,0	4-6	6-9	9-12	20	18	15
EXN04MLC2	M20 x 1.5	45	16	28	10,0 - 16,0	10 - 12	12 - 14,5	14,5 - 16	24	22	18
EXN05MMC2	M25 x 1.5	40	16	28	10,0 - 18,0	10 - 12	12 - 14,5	14,5 - 18	25	22	18
EXN05MLC2	M25 x 1.5	50	16	35	14,0 - 20,0	14 - 17	17 - 20	–	26	22	–
EXN06MMC2	M32 x 1.5	43	16	35	14,0 - 24,0	14 - 17	17 - 20	20 - 24	28	23	20
EXN06MLC2	M32 x 1.5	53	16	45	22,0 - 28,0	22 - 24	24 - 27	27 - 28	45	40	35
EXN07MMC2	M40 x 1.5	45	18	45	22,0 - 32,0	22 - 24	24 - 27	27 - 32	56	50	45
EXN07MLC2	M40 x 1.5	55	18	50	26,0 - 34,0	26 - 28	28 - 31	31 - 34	57	55	52
EXN08MSC2	M50 x 1.5	46	18	55/50	26,0 - 35,0	26 - 28	28 - 31	31 - 35	57	55	52
EXN08MMC2	M50 x 1.5	63	18	64	35,0 - 44,0	35 - 38	38 - 41	41 - 44	190	155	140
EXN09MSC2	M63 x 1.5	53	18	68/64	35,0 - 45,0	35 - 38	38 - 41	41 - 45	190	155	140
EXN09MMC2	M63 x 1.5	62	18	75/80	46,0 - 56,0	46 - 48	48 - 52	52 - 56	160	145	135
EXN10MSC2	M75 x 1.5	64	20	80	46,0 - 62,0	46 - 51	51 - 57	57 - 62	185	175	150
EXN10MMC2	M75 x 1.5	75	20	95	60,0 - 70,0	60 - 63	63 - 69	69 - 70	123	118	107
EXN11MSC2	M90 x 1.5	75	20	95	60,0 - 70,0	60 - 63	63 - 69	69 - 70	123	118	107
EXN11MMC2	M90 x 1.5	77	20	105	75,0 - 85,0	75 - 79	79 - 82	82 - 85	135	130	125
EXN12MSC2	M100 x 1.5	77	20	105	75,0 - 85,0	75 - 79	79 - 82	82 - 85	135	130	125
EXN12MMC2	M110 x 1.5	77	20	115	85,0 - 95,0	85 - 89	89 - 92	92 - 95	180	175	170

Ex d e Single Compression Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Cable Gland Dimensions (mm)			Sealing Ring Dimensions (mm)				Torque (Nm)		
		L	L1 Min	CH (body / cap)	Min-Max	S1+S2+S3	S1+S2	S1	S1+S2+S3	S1+S2	S1
Nickel Plated Brass											
EXN03AMC2	3/8“	40	16	22	4,0 - 12,0	4 - 6	6 - 9	9 - 12	20	18	15
EXN04AMC2	1/2“	40	16	22	4,0 - 12,0	4 - 6	6 - 9	9 - 12	20	18	15
EXN04ALC2	1/2“	45	16	28	10,0 - 16,0	10 - 12	12 - 14,5	14,5 - 16	24	22	18
EXN05AMC2	3/4“	40	16	28	10,0 - 18,0	10 - 12	12 - 14,5	14,5 - 18	25	22	18
EXN05ALC2	3/4“	50	16	35	14,0 - 20,0	14 - 17	17 - 20	–	26	22	–
EXN06AMC2	1“	43	20	35	14,0 - 24,0	14 - 17	17 - 20	20 - 24	28	23	20
EXN06ALC2	1“	53	20	45	22,0 - 26,0	22 - 24	24 - 26	–	45	40	35
EXN07AMC2	1 1/4“	45	20	45	22,0 - 32,0	22 - 24	24 - 27	27 - 32	56	50	45
EXN07ALC2	1 1/4“	55	20	50	26,0 - 34,0	26 - 28	28 - 31	31 - 34	57	55	52
EXN08ASC2	1 1/2“	46	20	55/50	26,0 - 35,0	26 - 28	28 - 31	31 - 35	57	55	52
EXN08AMC2	1 1/2“	63	20	64	35,0 - 41,0	35 - 38	38 - 41	–	190	155	140
EXN09ASC2	2“	53	20	68/64	35,0 - 45,0	35 - 38	38 - 41	41 - 45	190	155	140
EXN09AMC2	2“	62	20	75/80	45,0 - 56,0	46 - 48	48 - 52	52 - 56	160	145	135
EXN10ASC2	2 1/2“	64	21	80	46,0 - 62,0	46 - 51	51 - 57	57 - 62	185	175	150
EXN10AMC2	2 1/2“	75	21	95	60,0 - 70,0	60 - 63	63 - 69	69 - 70	123	118	107
EXN11ASC2	3“	75	21	95	60,0 - 70,0	60 - 63	63 - 69	69 - 70	123	118	107
EXN11AMC2	3“	77	21	105	75,0 - 85,0	75 - 79	79 - 82	82 - 85	135	130	125
EXN12ASC2	4“	77	21	115/105	75,0 - 85,0	75 - 79	79 - 82	82 - 85	135	130	125
EXN12AMC2	4“	77	21	115	85,0 - 95,0	85 - 89	89 - 92	92 - 95	180	175	170

* For Brass version, remove N to the reference, e.g. EX03MMC2 for Metric / EX03AMC2 for NPT

** For Stainless Steel version, add S to the reference, e.g. EXS03MMC2 for Metric / EXS03AMC2 for NPT

*** To purchase cable glands with locknuts, shrouds, earth tags, and washers where appropriate add a K to the end of the part number, e.g EX03MMC2K

Cable glands for hazardous areas
C3 Series - Ex d single compression cable gland

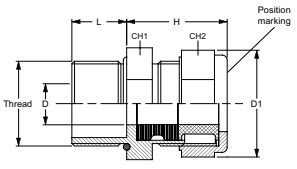
Features
- Flameproof Ex d and increased safety Ex e
- Available in brass, nickel plated brass and stainless steel 316
- Deluge proof
- Wide range of cable sizes
- Kits available

Certifications

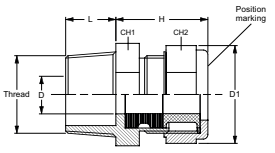
Standards

Approved to:	IEC EN60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	CESI 13 ATEX 041X, IECEx CES 13.0014X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +100°C
IP test:	IP66-68 (5-Bar 30 mins)

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas
C3 Series - Ex d single compression cable gland

C3 Series

Ex d SIngle Compression Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Sealing Range (mm)		Cable Gland Dimensions (mm)				Torque (Nm)
		D (min-max)	D1 (min)	H Min	L Min	CH1	CH2	CH2
Nickel Plated Brass								
EXN03MSC3	M16 x 1.5	3 - 8.5	29	25	16	22	26	31
EXN03MMC3	M16 x 1.5	6 - 12	31.5	28.5	16	25	29	35
EXN04MSC3	M20 x 1.5	6 - 12	31.5	27.5	16	25	29	35
EXN04MMC3	M20 x 1.5	12 - 14.5	33.5	29	16	28	30	33
EXN05MSC3	M25 x 1.5	6 - 12	31.5	28.5	18	29	29	35
EXN05MMC3	M25 x 1.5	12 - 16	37	28.5	18	32	35	30
EXN05MLC3	M25 x 1.5	12 - 20	44.5	32.5	18	36	40	61
EXN06MSC3	M32 x 1.5	12 - 20	44.5	33.5	18	40	40	61
EXN06MMC3	M32 x 1.5	15 - 26	57	41	18	48	52	86
EXN07MSC3	M40 x 1.5	15 - 26	57	41	18	48	52	86
EXN07MMC3	M40 x 1.5	20 - 32	66	50	18	55	60	110
EXN08MSC3	M50 x 1.5	22 - 35	77	50.5	18	60	70	110
EXN08MMC3	M50 x 1.5	27 - 41	77	54	18	70	70	125
EXN09MSC3	M63 x 1.5	35 - 45	89.5	61.5	20	75	80	165
EXN09MMC3	M63 x 1.5	40 - 52	94	61.5	20	85	85	250
EXN10MSC3	M75 x 1.5	40 - 52	94	61.5	20	85	85	250
EXN10MMC3	M75 x 1.5	45 - 60	105	72	20	90	95	250
EXN11MSC3	M90 x 1.5	45 - 60	105	72	20	95	95	250
EXN11MMC3	M90 x 1.5	60 - 72	127	84	20	110	115	300

Ex d SIngle Compression Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Sealing Range (mm)		Cable Gland Dimensions (mm)				Torque (Nm)
		D (min-max)	D1 (min)	H Min	L Min	CH1	CH2	CH2
Nickel Plated Brass								
EXN03ASC3	3/8“	3 - 8.5	29	25	16	22	26	31
EXN03AMC3	3/8“	6 - 12	31.5	28.5	16	25	29	35
EXN04ASC3	1/2“	6 - 12	31.5	27.5	21	25	29	35
EXN04AMC3	1/2“	12 - 14.5	33.5	29	21	28	30	33
EXN05ASC3	3/4“	6 - 12	31.5	28.5	21	29	29	35
EXN05AMC3	3/4“	12 - 16	37	28.5	21	32	35	30
EXN05ALC3	3/4“	12 - 20	44.5	32.5	21	36	40	61
EXN06ASC3	1“	12 - 20	44.5	33.5	26	40	40	61
EXN06AMC3	1“	15 - 26	57	41	26	48	52	86
EXN07ASC3	1 1/4“	15 - 26	57	41	28	48	52	86
EXN07AMC3	1 1/4“	20 - 32	66	50	28	55	60	110
EXN08ASC3	1 1/2“	22 - 35	77	50.5	28	60	70	110
EXN08AMC3	1 1/2“	27 - 41	77	54	28	70	70	125
EXN09ASC3	2“	35 - 45	89.5	61.5	28	75	80	165
EXN09AMC3	2“	40 - 52	94	61.5	28	85	85	250
EXN10ASC3	2 1/2“	40 - 52	94	61.5	41	85	85	250
EXN10AMC3	2 1/2“	45 - 60	105	72	41	90	95	250
EXN11ASC3	3“	45 - 60	105	72	43	95	95	250
EXN11AMC3	3“	60 - 72	127	84	43	110	115	300

* For Brass version, remove N to the reference, e.g. EX03MMC2 for Metric / EX03AMC2 for NPT

** For Stainless Steel version, add S to the reference, e.g. EXS03MMC2 for Metric / EXS03AMC2 for NPT

*** To purchase cable glands with locknuts, shrouds, earth tags, and washers where appropriate add a K to the end of the part number, e.g EX03MMC2K

Cable glands for hazardous areas

C4 Series - Ex d e unarmoured compound barrier flameproof cable gland

Features

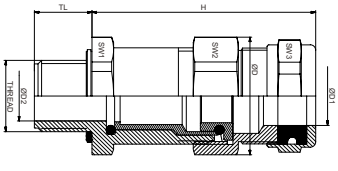
- A compound barrier cable gland for use with unarmoured cable
- Suitable for use in Zones 1, 2, 21, 22
- Flameproof Ex d and increased safety Ex e
- Available in brass, nickel plated brass and stainless steel 316
- Wide range of cable sizes

Certifications

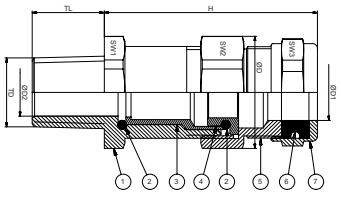
Standards

Approved to:	IEC EN60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	CESI 14 ATEX 032X, IECEx CES 13.0014X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-60°C to +100°C
IP test:	IP66

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas

C4 Series - Ex d e unarmoured compound barrier flameproof cable gland

C4 Series

Ex d e Unarmoured Compound Barrier Flameproof Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Cable Gland Dimensions (mm)								Cable Diameter Range Min-Max (mm)	Torque (Nm)	
		H	TL	øD	øD1	øD2	SW1	SW2	SW3		SW2	SW3
Nickel Plated Brass												
EXN04MC4	M20 x 1.5	62	16	33	16.5	14	30	30	30	8.5-16.0	30.0	28.0
EXN05MC4	M25 x 1.5	62.8	16	37	21.5	18.5	34	34	34	16.0-21.0	45.0	27.0
EXN06MC4	M32 x 1.5	68.5	16	45	26.5	25.6	42	42	40	16.0-26.0	65.0	32.0
EXN07MC4	M40 x 1.5	75.1	16	66	41.5	33	50	60	60	29.0-41.0	75.0	75.0
EXN08MC4	M50 x 1.5	82.7	16	77	48.5	43	60	70	75	33.0-48.0	90.0	75.0
EXN09MC4	M63 x 1.5	96	16	77	52.5	52	70	70	74	36.0-52.0	100.0	75.0

* For Nickel Plated Brass version, add 'N' to the reference, e.g. EXN04MC4 for Metric, for Stainless Steel 316 version, add 'S' to the reference, e.g. EXS04MC4 for Metric

Ex d e Unarmoured Compound Barrier Flameproof Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Cable Gland Dimensions (mm)								Cable Diameter Range Min-Max (mm)	Torque (Nm)	
		H	TL	øD	øD1	øD2	SW1	SW2	SW3		SW2	SW3
Nickel Plated Brass												
EXN04AC4	1/2"	62	21	33	16.5	14	30	30	30	8.5-16.0	30.0	28.0
EXN05AC4	3/4"	62.8	21	37	21.5	18.5	34	34	34	16.0-21.0	45.0	27.0
EXN06AC4	1"	68.5	26	45	26.5	25.6	42	42	40	16.0-26.0	65.0	32.0
EXN07AC4	1 1/4"	75.1	28	66	41.5	33	50	60	60	29.0-41.0	75.0	75.0
EXN08AC4	1 1/2"	82.7	28	77	48.5	43	60	70	75	33.0-48.0	90.0	75.0
EXN09AC4	2"	96	28	77	52.5	52	70	70	74	36.0-52.0	100.0	75.0

* For Brass version, remove N to the reference, e.g. EX03MMC2 for Metric / EX03AMC2 for NPT

** For Stainless Steel version, add S to the reference, e.g. EXS03MMC2 for Metric / EXS03AMC2 for NPT

Cable glands for hazardous areas

C5 Series - Ex d e armoured compound barrier flameproof cable gland

Features

- A compound barrier cable gland for use with SWA (Steel wired Armoured), AWB (Aluminium wired Braid) or AWA (Aluminium wired Armoured)
- Suitable for use in Zones 1, 2, 21, 22
- Flameproof Ex d and increased safety Ex e
- Available in brass, nickel plated brass and stainless steel 316
- Wide range of cable sizes

Certifications

Ex IEC IECEx

Exd Exe Extb

G IIC D IIIC

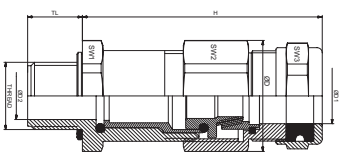
ZONE 1 ZONE 2 ZONE 21 ZONE 22

IP66 IP68

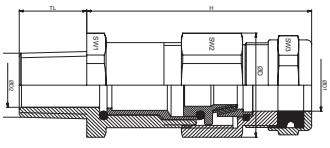
Standards

Approved to:	IEC EN60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	CESI 14 ATEX 032X, IECEx CES 14.0013X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-60°C to +100°C
IP test:	IP66

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas

C5 Series - Ex d e armoured compound barrier flameproof cable gland

C4 Series

Ex d e Armoured Compound Barrier Flameproof Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Cable Gland Dimensions (mm)								Cable Diameter Range Min-Max (mm)	Torque (Nm)	
		H	TL	øD	øD1	øD2	SW1	SW2	SW3		SW2	SW3
Nickel Plated Brass												
EXN04MC5	M20 x 1.5	70	16	33	16.5	14	30	30	29	8.5-16.0	30.0	28.0
EXN05MC5	M25 x 1.5	72.1	16	37	21.5	15.5	34	34	34	16.0-21.0	45.0	27.0
EXN06MC5	M32 x 1.5	76	16	45	26.5	25.6	42	42	40	16.0-26.0	65.0	32.0
EXN07MC5	M40 x 1.5	83.4	16	66	41.5	33	50	60	60	29.0-41.0	75.0	75.0
EXN08MC4	M50 x 1.5	96.6	16	77	48.5	43	60	70	75	33.0-48.0	90.0	75.0
EXN09MC4	M63 x 1.5	109.5	16	77	52.5	52	70	70	74	36.0-52.0	100.0	75.0

Ex d e Armoured Compound Barrier Flameproof Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Cable Gland Dimensions (mm)								Cable Diameter Range Min-Max (mm)	Torque (Nm)	
		H	TL	øD	øD1	øD2	SW1	SW2	SW3		SW2	SW3
Nickel Plated Brass												
EXN04AC5	1/2“	70	21	33	16.5	14	30	30	30	8.5-16.0	30.0	28.0
EXN05AC5	3/4“	72.1	21	37	21.5	15.5	34	34	34	16.0-21.0	45.0	27.0
EXN06AC5	1“	76	26	45	26.5	25.6	42	42	40	16.0-26.0	65.0	32.0
EXN07AC5	1 1/4“	83.4	28	66	41.5	33	50	60	60	29.0-41.0	75.0	75.0
EXN08AC5	1 1/2“	96.6	28	77	48.5	43	60	70	75	33.0-48.0	90.0	75.0
EXN09AC5	2“	109.5	28	77	52.5	52	70	70	74	36.0-52.0	100.0	75.0

* For brass version, remove N to the reference, e.g. EX04MC4 for Metric / EX04AC4 for NPT

** For stainless steel 316 version, add S to the reference, e.g. EXS04MC4 for Metric / EXS04AC4 for NPT

Cable glands for hazardous areas
C6 Series - Ex d e Single Compression EMC Metric Cable Gland

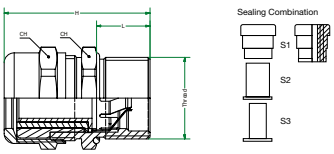
Features
- Suitable for use with EMC/Shielded cables
- Ex d and Ex e
- Available in brass, nickel plated brass & stainless steel 316
- Large cable range within one product with removeable seals

Certifications

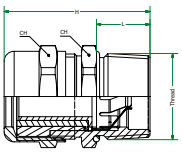
Standards

Approved to:	IEC EN60079-0, 60079-1, 60079-7, 60079-31
EC Type examination certificate to:	CESI 13 ATEX 041X, IECEx CES 13.0014X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +100°C
IP test:	IP66-68

Dimensional diagrams



Metric Thread



NPT Thread

Cable glands for hazardous areas
C6 Series - Ex d e Single Compression EMC Metric Cable Gland

C6 Series

Ex d e Single Compression EMC NPT Cable Gland - Metric Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	Metric Thread Size	Cable Gland Dimensions (mm)			Sealing Ring Dimensions (mm)				Torque (Nm)		
		L	L1 Min	CH (body / cap)	Min-Max	S1+S2+S3	S1+S2	S1	S1+S2+S3	S1+S2	S1
Nickel Plated Brass											
EXN03MSC6	M16 x 1.5	44.5	16	20	4-8	–	4-6	6-8	–	25	18
EXN03MMC6	M16 x 1.5	44.5	16	22	4-8	–	4-6	6-8	20	18	15
EXN04MMC6	M20 x 1.5	44.5	18	22	4-12	4-6	6-9	9-12	20	18	15
EXN05MMC6	M25 x 1.5	46	16	28	10-18	10-12	12-14.5	14.5-18	25	22	18
EXN06MMC6	M32 x 1.5	52	19	35	14-24	14-17	17-20	20-24	25	20	18
EXN07MMC6	M40 x 1.5	61	20	45	22-32	22-24	24-27	27-32	56	50	45
EXN08MMC6	M50 x 1.5	63.5	20	55/50	26-35	26-28	28-31	31-35	57	55	52

Ex d e Single Compression EMC NPT Cable Gland - NPT Thread / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Part No.	NPT Thread Size (inch)	Cable Gland Dimensions (mm)			Sealing Ring Dimensions (mm)				Torque (Nm)		
		L	L1 Min	CH (body / cap)	Min-Max	S1+S2+S3	S1+S2	S1	S1+S2+S3	S1+S2	S1
Nickel Plated Brass											
EXN03ASC6	3/8”	44.5	16	20	4-8	–	4-6	6-8	–	25	18
EXN03AMC6	3/8”	44.5	16	22	4-8	–	4-6	6-8	20	18	15
EXN04AMC6	1/2”	44.5	18	22	4-12	4-6	6-9	9-12	20	18	15
EXN05AMC6	3/4”	46	16	28	10-18	10-12	12-14.5	14.5-18	25	22	18
EXN06AMC6	1”	52	19	35	14-24	14-17	17-20	20-24	25	20	18
EXN07AMC6	1 1/4”	61	20	45	22-32	22-24	24-27	27-32	56	50	45
EXN08AMC6	1 1/2”	63.5	20	55/50	26-35	26-28	28-31	31-35	57	55	52

* For Brass version, remove N to the reference, e.g. EX03MMC6 for Metric / EX03AMC6 for NPT

** For Stainless Steel version, add S to the reference, e.g. EXS03MMC6 for Metric / EXS03AMC6 for NPT

*** To purchase cable glands with locknuts, shrouds, earth tags, and washers where appropriate add a K to the end of the part number, e.g EX03ASC6K

Cable glands for hazardous areas
Ex e Nylon cable gland

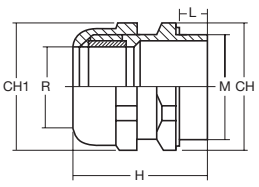
Features
- Suitable for potentially explosive gas atmospheres
- Increased safety “e” and intrinsic safety “i”

Certifications

Standards

Approved to:	IEC EN60079-0, 60079-7, 60079-11, 60079-31
EC Type examination certificate to:	IMQ 13 ATEX 016X, IECEx IMQ 13.0005X Ex e IIC Gb Ex tb IIIC Db
Safe operating temperature range:	-40°C to +80°C
IP test:	IP66-68

Dimensional diagrams



Cable glands for hazardous areas
Ex e Nylon cable gland

Nylon Cable Gland

Ex e Nylon Cable Gland - Metric Thread / **Materials:** Nylon

Part No.	Metric Thread Size	Cable Diameter Range (min-max)	Cable Gland Dimensions (mm)				Torque (Nm)
			L	H Min	CH	CH1	
EXCGM20S	20	6-12	10	40	24	24	5
EXCGM20SL	20	6-12	15	45	24	24	5
EXCGM20M	20	10-14	10	42	27	27	5.5
EXCGM20ML	20	10-14	15	50	27	27	5.5
EXCGM25S	25	13-18	10	47	33	33	7
EXCGM25SL	25	13-18	15	50	33	33	7
EXCGM25M	25	11-17	8	42.5	29	29	5
EXCGM32S	32	15-21	10	50	36	36	6
EXCGM32M	32	18-25	15	68	42	42	9
EXCGM40S	40	19-28	10	55	46	46	5
EXCGM40M	40	22-32	18	68	53	53	17
EXCGM50S	50	30-38	18	73	60	60	22
EXCGM63S	63	34-44	18	74	65	65	23

Ex e Nylon Cable Gland - NPT Thread / **Materials:** Nylon

Part No.	NPT Thread Size (inch)	Cable Diameter Range (min-max)	Cable Gland Dimensions (mm)				Torque (Nm)
			L	H Min	CH	CH1	
EXCG050S	1/2"	6-12	15	45	24	24	5
EXCG050M	1/2"	10-14	15	47	27	27	5.5
EXCG075S	3/4"	13-18	15	50	33	33	7
EXCG100S	1"	18-25	18	58	42	42	9

Locknut supplied separately. For high impact fittings please contact sales office

Cable glands for hazardous areas
ISR Series - Industrial strain relief fitting

Features

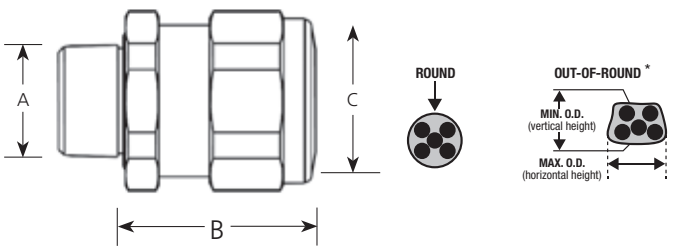
- Globally certified to meet 100% of pullout requirements with no external clamping
- High-strength, corrosion-resistant copper-free aluminum construction (less than 0.4%)
- Suitable for use in Zones 1, 2, 20, 21 and 22
- Superior-quality fitting that reduces installation time & costs
- Wide range of cable sizes

Certifications

Standards

EC Type examination certificate to:	CSA 14.70009467X, IECEx CSA 14.0035X ATEX (pending) Ex e IIC Gb Ex ta IIIC Da
Safe operating temperature range:	-50°C to 110°C
IP test:	IP66

Dimensional diagrams



Cable glands for hazardous areas
ISR Series - Industrial strain relief fitting

ISR series

Strain relief fitting - NPT Thread / **Materials:** Aluminium

Part No.	Hub Size	Torque	Throat Dia.	CABLE DIAMETER (Range over jacket)				A (Thread)	B (Ref.)**	C (O.D.)
				Round		Out of Round*				
				Min. Dia	Max. Dia	Min. Dia	Max. Dia			
ISR050-053	1/2"	400 lbf-in (45.19 Nm)	0.535" (13.59 mm)	0.325" (8.25 mm)	0.525" (13.34 mm)	0.345" (8.76 mm)	0.525" (13.34 mm)	1/2-14 NPT	1.65" (41.91 mm)	1.350" (34.29 mm)
ISR050-062	1/2"	400 lbf-in (45.19 Nm)	0.630" (16.00 mm)	0.425" (10.79 mm)	0.620" (15.75 mm)	0.445" (11.30 mm)	0.620" (15.75 mm)	1/2-14 NPT	1.683" (42.75 mm)	1.500" (38.10 mm)
ISR075-082	3/4"	600 lbf-in (67.79 Nm)	0.825" (20.96 mm)	0.585" (14.86 mm)	0.815" (20.70 mm)	0.625" (15.88 mm)	0.815" (20.70 mm)	3/4-14 NPT	1.790" (45.47 mm)	1.700" (43.18 mm)
ISR100-102	1"	800 lbf-in (90.39 Nm)	1.035" (26.29 mm)	0.785" (19.94 mm)	1.025" (26.04 mm)	0.815" (20.70 mm)	1.025" (26.04 mm)	1-11.5 NPT	1.818" (46.18 mm)	1.900" (48.26 mm)
ISR125-122	1 1/4"	1100 lbf-in (124.28 Nm)	1.225" (31.12 mm)	0.985" (25.02 mm)	1.215" (30.86 mm)	1.025" (26.04 mm)	1.215" (30.86 mm)	1.25-11.5 NPT	1.993" (50.62 mm)	2.320" (58.93 mm)
ISR125-137	1 1/4"	1100 lbf-in (124.28 Nm)	1.380" (35.05 mm)	1.185" (30.10 mm)	1.370" (34.80 mm)	1.225" (31.12 mm)	1.370" (34.80 mm)	1.25-11.5 NPT	1.918" (48.72 mm)	2.320" (58.93 mm)
ISR150-156	1 1/2"	1300 lbf-in (146.88 Nm)	1.560" (39.62 mm)	1.335" (33.91 mm)	1.550" (39.37 mm)	1.375" (34.93 mm)	1.550" (39.37 mm)	1.50-11.5 NPT	1.945" (49.40 mm)	2.580" (65.53 mm)
ISR200-179	2"	1600 lbf-in (180.77 Nm)	1.795" (45.59 mm)	1.525" (38.73 mm)	1.785" (45.34 mm)	1.565" (39.75 mm)	1.785" (45.34 mm)	2-11.5 NPT	2.017" (51.23 mm)	3.012" (76.50 mm)
ISR200-206	2"	1600 lbf-in (180.77 Nm)	2.070" (52.58 mm)	1.755" (44.58 mm)	2.055" (52.20 mm)	1.795" (45.59 mm)	2.055" (52.20 mm)	2-11.5 NPT	2.010" (51.05 mm)	3.200" (81.28 mm)

* Some cables such as tray cable are not perfectly round

** Reference dimension before installation

Cable glands for hazardous areas

Star Teck XP® (STX) Series - Hazardous location glands for Teck cable

Features

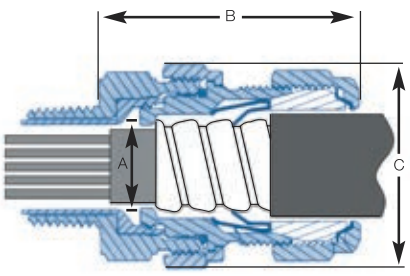
- Hub has hexagonal shape for dependable tool grip
- Internal splines allow installer to tighten gland nut either on or off enclosure
- Provides grip high up on cable armour, saves installation time and provides dependable grounding
- Tapered bushing to provide secure, tight fit while eliminating cupping in vertical installations
- Low profile gland nut for installation into tight spaces
- Designed to accommodate a broad range of cables

Certifications

Standards

UL listed and CSA certified for hazardous locations:	UL E82038
	UL Class I groups A, B, C & D
	UL Class II E, F & G, Div 1
	CSA 023086
	Class I Div 1 & 2, groups A, B, C & D
	Class II Div 1 & 2, groups E, F & G
	Class III Types 4x, 6P

Dimensional diagrams



Cable glands for hazardous areas
Star Teck XP®(STX) Series - Hazardous location glands for Teck cable

Star Teck XP® (STX) series

Hazardous Location Gland for Teck Cable - NPT Thread / **Materials:** Aluminium or Steel

Part No.	NPT Hub Size (inch)	Max. Volume of Sealing Compound (cm^3)	Range Over Jacket (inches)		Cable Gland Dimensions (inches)		
			Min.	Max.	A	B**	C
STX050-462*	1/2	5	0.525	0.650	0.395	2.50	1.63
STX050-464*	1/2	5	0.600	0.760	0.485	2.50	1.63
STX075-465*	3/4	8	0.725	0.885	0.607	2.62	1.82
STX075-466*	3/4	8	0.825	0.985	0.715	2.62	1.82
STX100-467*	1	16	0.880	1.065	0.750	2.83	2.30
STX100-468*	1	16	1.025	1.205	0.895	2.83	2.30
STX125-469*	1 1/4	23	1.187	1.375	1.057	3.05	2.51
STX150-470*	1 1/2	43	1.350	1.625	1.177	3.76	3.26
STX150-550*	1 1/2	43	1.500	1.625	1.365	3.76	3.26
STX150-471*	1 1/2	43	1.600	1.875	1.465	3.76	3.26
STX200-472*	2	72	1.700	1.965	1.552	4.05	3.62
STX200-473*	2	72	1.900	2.187	1.752	4.05	3.62
STX200-474*	2	72	2.100	2.375	1.990	4.15	4.02
STX250-475*	2 1/2	147	2.300	2.565	2.180	4.31	4.58
STX250-476*	2 1/2	147	2.500	2.750	2.360	4.31	4.58
STX300-478*	3	286	2.580	2.840	2.455	5.64	5.10
STX300-479*	3	286	2.790	3.060	2.655	5.80	5.33
STX350-480*	3 1/2	366	3.000	3.270	2.859	6.32	5.79
STX350-481*	3 1/2	366	3.210	3.480	3.057	6.32	5.79
STX400-482*	4	614	3.420	3.690	3.285	6.63	6.19
STX400-483*	4	614	3.610	3.870	3.455	6.63	6.19
STX400-484*	4	614	3.810	4.030	3.625	7.09	6.90
STX400-485*	4	614	3.965	4.185	3.770	7.09	6.90

* For steel version, add 'S' to the reference, e.g. STX050-464S, ** Approximate dimension before installation

Note: Sealing compound not included. Order separately

Sealing Compounds

Part No.	Description	Volume (cm^3)
SC4-KIT-1*	Liquid type sealing compound (includes pouch of sealing compound with customizable nozzle and damming fiber)	50
SC65**	Putty type sealing compound (cut-to-length stick)	34

* Use SC4-KIT-1 liquid compound for shielded cables and all power cables with less than 4 conductors (including ground)

** We do not recommend SC65 for use with shielded cables. Suitable for use on cables with a maximum of four conductors (including ground)

Series Star Teck XP® (STX) range

Star Teck XP® (STX) cable glands are designed to accommodate a broad range of cables, thereby minimizing the possibility of mismatched cables and fittings in the field. They are available in hub sizes from 1/2 to 4 inches, and will handle outer jacket diameters from 0.525 to 4.185 inches.

Cable glands for hazardous areas

Star Teck Extreme XP® (STEX) Series - Range-taking glands for Teck cable

Features

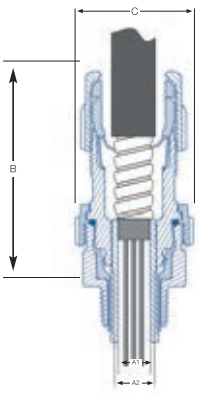
- Removable armour stop is factory installed
- Built-in sealing device provides 360º seal when enclosure surface is rough or uneven
- Tapered bushing to provide secure, tight fit while eliminating cupping in vertical installations
- Elastomeric collar ring extends cable diameter range
- Built-in jacket stripping gauge on each fitting
- Low profile gland nut for installation into tight spaces
- Designed to accommodate a broad range of cables

Certifications

Standards

UL listed and CSA certified for hazardous locations:	UL E82038
	UL Class I groups A, B, C & D
	UL Class II E, F & G, Div 2
	CSA 023086
	Class I Div 1 & 2, groups A, B, C & D
	Class II Div 1 & 2, groups E, F & G
	Class III Types 4x, 6P

Dimensional diagrams



Cable glands for hazardous areas

Star Teck Extreme XP® (STEX) Series - Range-taking glands for Teck cable

Star Teck Extreme XP® (STEX) series

Range-Taking Gland for Teck cable - NPT Thread / **Materials:** Aluminium or Steel

Part No.	NPT Hub Size (inch)	Range Over Jacket Jacket (inch)		Range Over Jacket Armour (inch)		A1 Throat Diameter Min. (inch) with Armour Stop	A2 Throat Diameter Min. (inch) without Armour Stop	B** Length (inch)	C Max. O.D. (inch)	Compound required (approx.) SC65/ SC4KIT Liquid (CC)
		Min.	Max.	Min.	Max.					
STX050-462*	1/2	0.525	0.650	0.415	0.570	N/A***	0.400	2.500	1.630	5
STX050-464*	1/2	0.600	0.760	0.490	0.680	N/A***	0.480	2.530	1.630	5
STEX075*	3/4	0.600	0.985	0.520	0.895	0.500	0.670	3.400	1.820	8
STEX100*	1	0.860	1.205	0.780	1.125	0.645	0.825	3.580	2.300	16
STEX125*	1 1/4	0.950	1.375	0.870	1.295	0.829	1.076	3.920	2.510	23
STEX150*	1 1/2	1.150	1.625	0.990	1.465	0.953	1.280	5.020	3.260	43
STEX200*	2	1.440	1.965	1.280	1.805	1.245	1.565	5.120	3.620	72
STEX250*	2 1/2	1.825	2.375	1.665	2.215	1.630	2.000	5.170	4.580	147
STEX300*	3	2.265	2.840	2.105	2.680	2.066	2.495	6.610	5.100	286
STEX350*	3 1/2	2.670	3.270	2.545	3.145	2.522	2.895	7.380	5.790	366
STEX400*	4	3.220	3.870	3.090	3.640	3.060	3.520	7.650	6.190	614

* For steel version, add 'S' to the reference, e.g. STEX075S, ** Approximate dimension before installation

Note: To order fittings complete with aluminium BondStar locknut and lug, add the suffix 'GRL' to the catalogue number, e.g. STEX075GRL

Sealing Compounds

Part No.	Description	Volume (cm^3)
SC4-KIT-1*	Liquid type sealing compound (includes pouch of sealing compound with customizable nozzle and damming fiber)	50
SC65**	Putty type sealing compound (cut-to-length stick)	34

* Use SC4-KIT-1 liquid compound for shielded cables and all power cables with less than 4 conductors (including ground)

** We do not recommend SC65 for use with shielded cables. Suitable for use on cables with a maximum of four conductors (including ground)

Series Star Teck Extreme XP® (STEX) range

Star Teck Extreme XP® (STEX) cable glands are designed to accommodate a broad range of cables and each hub range overlaps the adjacent hub range, thereby minimizing the possibility of mismatched cables and fittings in the field. They are available in hub sizes from 1/2 to 4 inches, and will handle outer jacket diameters from 0.525 to 3.870 inches.

Thread convertors, stopping plugs & accessories

Thread Convertors and Stopping Plugs

4

Accessories

Thread convertors, stopping plugs & accessories
Selection guide

	Thread convertors and Stopping plugs							
Type	**Thread convertors**	**Standard stopping plugs**	**Tamperproof stopping plugs**	**Hex head stopping plugs**	**Dome head stopping plugs**	**Nylon stopping plugs**	**Drain valve**	**Female coupler**
Approvals								
ATEX	•	•	•	•	•	•	•	•
IEC / IECEx	•	•	•	•	•	•	•	•
ETL	•	•	•	–	–	–	–	–
GOST	•	•	•	•	•	•	–	•
INMETRO	•	•	•	•	•	•	–	•
Protection Type								
Ex e	•	–	–	•	•	•	•	–
Ex d	•	•	•	–	–	–	–	–
Ex tb	–	•	•	•	•	•	•	–
Zones								
Zone 1	•	•	•	•	•	•	•	–
Zone 2	•	•	•	•	•	•	•	–
Zone 21	•	•	•	•	•	•	•	–
Zone 22	•	•	•	•	•	•	•	–
Class / Division								
Class I / Div 1	•	•	•	–	–	–	–	•
Class I / Div 2	–	–	–	–	–	–	–	•
Class II / Div 1	•	•	•	–	–	–	–	•
Class II / Div 2	–	–	–	–	–	–	–	•
Section 4 / Page No.	4/4	4/6	4/6	4/8	4/8	4/8	4/10	4/10




Accessories			
Earth Tag	**Sealing joint washer**	**Hex locknut**	**Serrated washer**
–	–	–	–
–	–	–	–
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4/10	4/11	4/11	4/11

Thread convertors and stopping plugs
Ex d e Thread convertors - Enlargers, reducers and convertors

Features

– Thread Convertors provide a method of matching threadforms on hazardous location equipment whilst ensuring the integrity and approval of the installation is maintained

Certifications

Standards

Certification standard:	ATEX: Baseefa07 ATEX 0247X, IECEx: IECEx BAS07.0090X Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db Class I Div1 ABCD, Class II Div1 EFG (does not include M16 & 3/8"NPT or unplated brass products)
Approved to:	UL 1203 CSA C22.2 No.60079-04 C22.2 No.60079-1

Thread convertors and stopping plugs
Ex d e Thread convertors - Enlargers, reducers and convertors

Thread Convertors

Enlargers, Reducers and Convertors / **Materials:** Brass, Nickel plated brass or Stainless steel 316

Male External Thread	Metric Female Internal Thread							
	M16	M20	M25	M32	M40	M50	M63	M75
	Nickel Plated Brass							
M16		EXN/M16-M20/E	EXN/M16-M25/E					
M20	EXN/M20-M16/R		EXN/M20-M25/E	EXN/M20-M32/E				
M25	EXN/M25-M16/R	EXN/M25-M20/R		EXN/M25-M32/E	EXN/M25-M40/E			
M32	EXN/M32-M16/R	EXN/M32-M20/R	EXN/M32-M25/R		EXN/M32-M40/E	EXN/M32-M50/E		
M40	EXN/M40-M16/R	EXN/M40-M20/R	EXN/M40-M25/R	EXN/M40-M32/R		EXN/M40-M50/E	EXN/M40-M63/E	
M50	EXN/M50-M16/R	EXN/M50-M20/R	EXN/M50-M25/R	EXN/M50-M32/R	EXN/M50-M40/R		EXN/M50-M63/E	EXN/M50-M75/E
M63	EXN/M63-M16/R	EXN/M63-M20/R	EXN/M63-M25/R	EXN/M63-M32/R	EXN/M63-M40/R	EXN/M63-M50/R		EXN/M63-M75/E
M75	EXN/M75-M16/R	EXN/M75-M20/R	EXN/M75-M25/R	EXN/M75-M32/R	EXN/M75-M40/R	EXN/M75-M50/R	EXN/M75-M63/R	
NPT 3/8	EXN/038-M16/TC							
NPT 1/2	EXN/050-M16/TC	EXN/050-M20/TC	EXN/050-M25/TC					
NPT 3/4	EXN/075-M16/TC	EXN/075-M20/TC	EXN/075-M25/TC	EXN/075-M32/TC				
NPT 1	EXN/100-M16/TC	EXN/100-M20/TC	EXN/100-M25/TC	EXN/100-M32/TC	EXN/100-M40/TC			
NPT 1 1/4	EXN/125-M16/TC	EXN/125-M20/TC	EXN/125-M25/TC	EXN/125-M32/TC	EXN/125-M40/TC	EXN/125-M50/TC		
NPT 1 1/2	EXN/150-M16/TC	EXN/150-M20/TC	EXN/150-M25/TC	EXN/150-M32/TC	EXN/150-M40/TC	EXN/150-M50/TC	EXN/150-M63/TC	
NPT 2	EXN/200-M16/TC	EXN/200-M20/TC	EXN/200-M25/TC	EXN/200-M32/TC	EXN/200-M40/TC	EXN/200-M50/TC	EXN/200-M63/TC	
NPT 2 1/2	EXN/250-M16/TC	EXN/250-M20/TC	EXN/250-M25/TC	EXN/250-M32/TC	EXN/250-M40/TC	EXN/250-M50/TC		
NPT 3	EXN/300-M16/TC	EXN/300-M20/TC	EXN/300-M25/TC	EXN/300-M32/TC	EXN/300-M40/TC	EXN/300-M50/TC		EXN/300-M75/TC

Thread Convertors

Enlargers, Reducers and Convertors / **Materials:** Brass, Nickel plated brass or Stainless steel 316

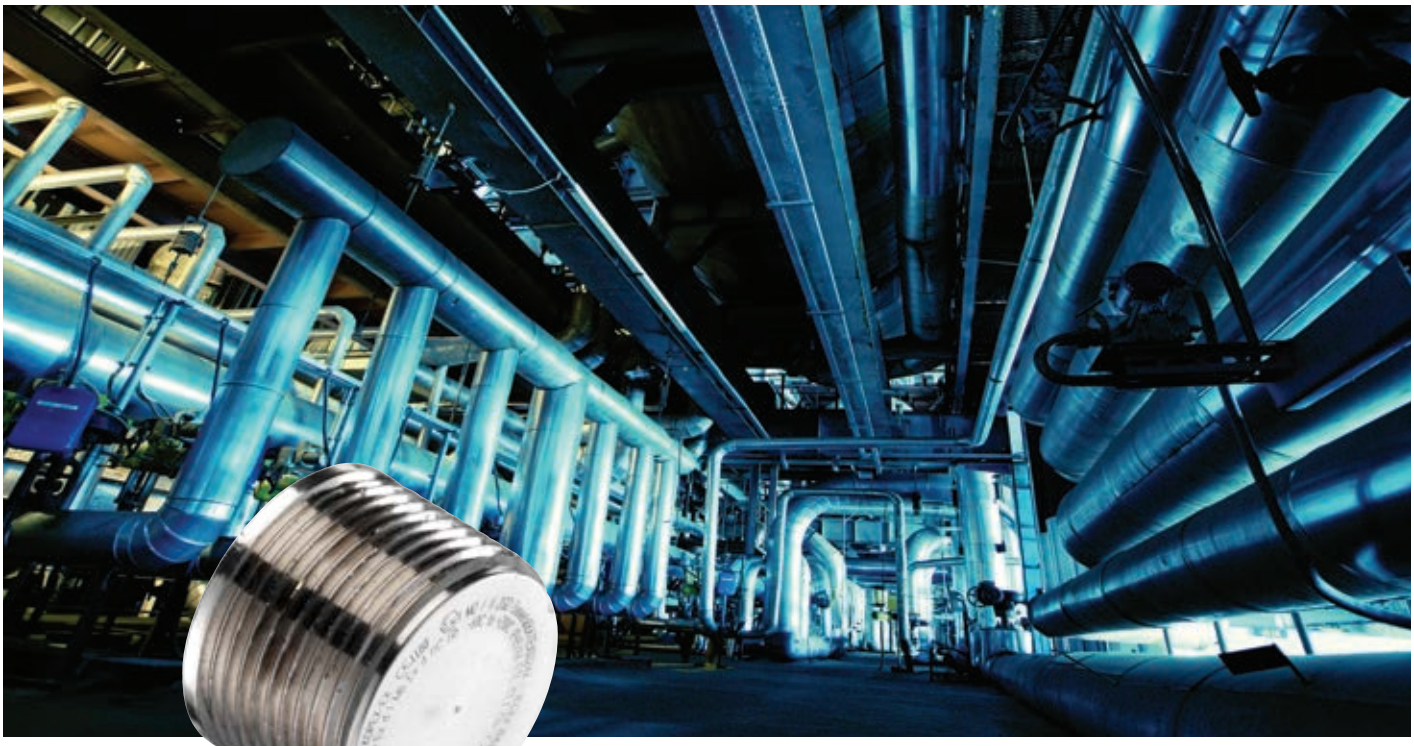
Male External Thread	NPT Female Internal Thread							
	NPT 1/2	NPT 3/4	NPT 1	NPT 1 1/4	NPT 1 1/2	NPT 2	NPT 2 1/2	NPT 3
	Nickel Plated Brass							
M16	EXN/M16-050/TC							
M20	EXN/M20-050/TC	EXN/M20-075/TC						
M25	EXN/M25-050/TC	EXN/M25-075/TC	EXN/M25-100/TC					
M32	EXN/M32-050/TC	EXN/M32-075/TC	EXN/M32-100/TC	EXN/M32-125/TC				
M40	EXN/M40-050/TC	EXN/M40-075/TC	EXN/M40-100/TC	EXN/M40-125/TC	EXN/M40-150/TC			
M50	EXN/M50-050/TC	EXN/M50-075/TC	EXN/M50-100/TC	EXN/M50-125/TC	EXN/M50-150/TC	EXN/M50-200/TC		
M63	EXN/M63-050/TC	EXN/M63-075/TC	EXN/M63-100/TC	EXN/M63-125/TC	EXN/M63-150/TC	EXN/M63-200/TC		
M75	EXN/M75-050/TC	EXN/M75-075/TC	EXN/M75-100/TC	EXN/M75-125/TC	EXN/M75-150/TC	EXN/M75-200/TC		
NPT 1/2		EXN/050-075/E						
NPT 3/4	EXN/075-050/R		EXN/075-100/E					
NPT 1	EXN/100-050/R	EXN/100-075/R		EXN/100-125/E				
NPT 1 1/4	EXN/125-050/R	EXN/125-075/R	EXN/125-100/R		EXN/125-150/E			
NPT 1 1/2	EXN/150-050/R	EXN/150-075/R	EXN/150-100/R	EXN/150-125/R		EXN/150-200/E		
NPT 2	EXN/200-050/R	EXN/200-075/R	EXN/200-100/R	EXN/200-125/R	EXN/200-150/R			
NPT 2 1/2	EXN/250-050/R	EXN/250-075/R	EXN/250-100/R	EXN/250-125/R	EXN/250-150/R	EXN/250-200/R		EXN/250-300/E
NPT 3	EXN/300-050/R	EXN/300-075/R	EXN/300-100/R	EXN/300-125/R	EXN/300-150/R	EXN/300-200/R	EXN/300-250/R	

* For unplated brass version, remove N from reference, e.g. EX/M20-M16/R

** For stainless steel 316 version, add S to the reference, e.g. EXS/M20-M16/R

N.B. PG thread convertors available upon request

Thread convertors and stopping plugs
Standard Ex d & Tamperproof Ex d stopping plugs



Features
- For use in potentially explosive environments
- Manufactured from either brass, nickel plated brass or stainless steel

Certifications

Standards

Approved to:	
EC Type examination certificate to:	ATEX: Baseefa08ATEX0324 IECEx: IECEx BAS08.0109X ETL: 3176087 UL 1203 (Nickel Plated Brass and Stainless Steel only)
	Ex d I Mb
	Ex d IIC Gb
	Class I Div 1 ABCD
	Class II Div 1 EFG
Safe operating temperature range:	-20°C to +200°C

Thread convertors and stopping plugs
Standard Ex d & Tamperproof Ex d stopping plugs

Standard Ex d Stopping Plug

Standard Ex d Stopping Plug

Standard Ex d Stopping Plug - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/M16/SP	16	EX/M16/SP	16	EXS/M16/SP	16
EXN/M20/SP	20	EX/M20/SP	20	EXS/M20/SP	20
EXN/M25/SP	25	EX/M25/SP	25	EXS/M25/SP	25
EXN/M32/SP	32	EX/M32/SP	32	EXS/M32/SP	32
EXN/M40/SP	40	EX/M40/SP	40	EXS/M40/SP	40
EXN/M50/SP	50	EX/M50/SP	50	EXS/M50/SP	50
EXN/M63/SP	63	EX/M63/SP	63	EXS/M63/SP	63

Standard Ex d Stopping Plug - NPT Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/038/SP	3/8	EX/038/SP	3/8	EXS/038/SP	3/8
EXN/050/SP	1/2	EX/050/SP	1/2	EXS/050/SP	1/2
EXN/075/SP	3/4	EX/075/SP	3/4	EXS/075/SP	3/4
EXN/100/SP	1	EX/100/SP	1	EXS/100/SP	1
EXN/125/SP	1 1/4	EX/125/SP	1 1/4	EXS/125/SP	1 1/4
EXN/150/SP	1 1/2	EX/150/SP	1 1/2	EXS/150/SP	1 1/2
EXN/200/SP	2	EX/200/SP	2	EXS/200/SP	2

Tamperproof Ex d Stopping Plug

Tamperproof Ex d Stopping Plug

Tamperproof Ex d Stopping Plug - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/M16/TSP	16	EX/M16/TSP	16	EXS/M16/TSP	16
EXN/M20/TSP	20	EX/M20/TSP	20	EXS/M20/TSP	20
EXN/M25/TSP	25	EX/M25/TSP	25	EXS/M25/TSP	25
EXN/M32/TSP	32	EX/M32/TSP	32	EXS/M32/TSP	32
EXN/M40/TSP	40	EX/M40/TSP	40	EXS/M40/TSP	40
EXN/M50/TSP	50	EX/M50/TSP	50	EXS/M50/TSP	50
EXN/M63/TSP	63	EX/M63/TSP	63	EXS/M63/TSP	63

Tamperproof Ex d Stopping Plug - NPT Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/038/TSP	3/8	EX/038/TSP	3/8	EXS/038/TSP	3/8
EXN/050/TSP	1/2	EX/050/TSP	1/2	EXS/050/TSP	1/2
EXN/075/TSP	3/4	EX/075/TSP	3/4	EXS/075/TSP	3/4
EXN/100/TSP	1	EX/100/TSP	1	EXS/100/TSP	1
EXN/125/TSP	1 1/4	EX/125/TSP	1 1/4	EXS/125/TSP	1 1/4
EXN/150/TSP	1 1/2	EX/150/TSP	1 1/2	EXS/150/TSP	1 1/2
EXN/200/TSP	2	EX/200/TSP	2	EXS/200/TSP	2

Thread convertors and stopping plugs
Hex head Ex e, Dome head Ex e & Nylon stopping plugs

Features
- For use in potentially explosive environments
- Manufactured from either brass, nickel plated brass or stainless steel

Certifications

Standards

Approved to:	
EC Type examination certificate to:	(Hex head Ex e stopping plug and dome head stopping plug) ATEX: Baseefa08ATEX0325X IECEx: IECEx BAS08.0108X Ex d I Mb Ex d IIC Gb Class I Div 1 ABCD Class II Div 1 EFG
Safe operating temperature range:	-60°C to +130°C
IP test:	IP65/66

Thread convertors and stopping plugs
Hex head Ex e, Dome head Ex e & Nylon stopping plugs

Hex Head Ex e Stopping Plug

Hex Head Ex e Stopping Plug

Hex Head Ex e Stopping Plug - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/M16/HSP	16	EX/M16/HSP	16	EXS/M16/HSP	16
EXN/M20/HSP	20	EX/M20/HSP	20	EXS/M20/HSP	20
EXN/M25/HSP	25	EX/M25/HSP	25	EXS/M25/HSP	25
EXN/M32/HSP	32	EX/M32/HSP	32	EXS/M32/HSP	32
EXN/M40/HSP	40	EX/M40/HSP	40	EXS/M40/HSP	40
EXN/M50/HSP	50	EX/M50/HSP	50	EXS/M50/HSP	50
EXN/M63/HSP	63	EX/M63/HSP	63	EXS/M63/HSP	63

Note: PG stopping plugs available upon request

Dome Head Ex e Stopping Plug

Dome Head Ex e Stopping Plug

Dome Head Ex e Stopping Plug - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/M16/DSP	16	EX/M16/DSP	16	EXS/M16/DSP	16
EXN/M20/DSP	20	EX/M20/DSP	20	EXS/M20/DSP	20
EXN/M25/DSP	25	EX/M25/DSP	25	EXS/M25/DSP	25
EXN/M32/DSP	32	EX/M32/DSP	32	EXS/M32/DSP	32
EXN/M40/DSP	40	EX/M40/DSP	40	EXS/M40/DSP	40
EXN/M50/DSP	50	EX/M50/DSP	50	EXS/M50/DSP	50
EXN/M63/DSP	63	EX/M63/DSP	63	EXS/M63/DSP	63

Note: PG stopping plugs available upon request

Ex e Nylon Stopping Plug

Ex e Nylon Stopping Plug

Nylon Stopping Plug - Metric Thread / **Materials:** Nylon

Part No.	Metric Thread Size (mm)
EX-M16	16
EX-M20	20
EX-M25	25
EX-M32	32
EX-M40	40
EX-M50	50
EX-M63	63

Standards	
Approved to:	
EC Type examination certificate to:	IMQ 13 ATEX 016X, IECEx IMQ 13.0005X Ex e IIC Gb Ex tb III Db
IP test:	IP66-IP68 (5 Bar 30 Mins)

Certifications

Accessories
Couplers & Hex Locknuts

Coupler
Female to female thread coupler

4

Certifications

Standards

Baseefa 08 ATEX 0003X
Ex de IIC Gb
Ex tb IIIC Db

Safe operating temperature range:
-60°C to +200°C

Ex d e Coupler

Ex d e Coupler - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/M16/C	16	EX/M16/C	16	EXS/M16/C	16
EXN/M20/C	20	EX/M20/C	20	EXS/M20/C	20
EXN/M25/C	25	EX/M25/C	25	EXS/M25/C	25
EXN/M32/C	32	EX/M32/C	32	EXS/M32/C	32
EXN/M40/C	40	EX/M40/C	40	EXS/M40/C	40
EXN/M50/C	50	EX/M50/C	50	EXS/M50/C	50
EXN/M63/C	63	EX/M63/C	63	EXS/M63/C	63
EXN/M75/C	75	EX/M75/C	75	EXS/M75/C	75

Female to Female Thread Coupler - NPT Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)
Nickel Plated		**Brass**		**Stainless Steel**	
EXN/038/C	3/8	EX/038/C	3/8	EXS/038/C	3/8
EXN/050/C	1/2	EX/050/C	1/2	EXS/050/C	1/2
EXN/075/C	3/4	EX/075/C	3/4	EXS/075/C	3/4
EXN/100/C	1	EX/100/C	1	EXS/100/C	1
EXN/125/C	1 1/4	EX/125/C	1 1/4	EXS/125/C	1 1/4
EXN/150/C	1 1/2	EX/150/C	1 1/2	EXS/150/C	1 1/2
EXN/200/C	2	EX/200/C	2	EXS/200/C	2
EXN/250/C	2 1/2	EX/250/C	2 1/2	EXS/250/C	2 1/2

Ex e Metallic Drain Valve

Certifications

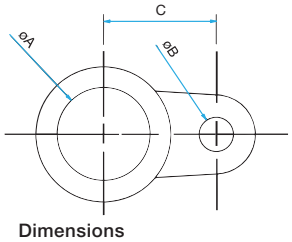
Ex e Metallic Drain Valve

Metallic Drain Valve / **Materials:** Nickel plated brass / Stainless steel

Part No.	Metric Thread Size (mm)	Part No.	NPT Thread Size (inch)
EXN/M20/DV	20	EXN/050/DV	1/2
EXN/M25/DV	25	EXN/075/DV	3/4

Note: replace EXN for EXS for stainless steel

Earth Tag



Dimensions

Earth Tag

Earth Tag - Metric / **Materials:** Brass

Part No.	Diameter (mm) A	B	C
EX/M16/TAG	16.2 / 16.5	6.5 / 7.0	28.0 / 28.5
EX/M20/TAG	20.2 / 20.5	6.5 / 7.0	28.0 / 28.5
EX/M25/TAG	25.2 / 25.7	6.1 / 6.6	30.5 / 31.0
EX/M32/TAG	32.2 / 32.8	12.2 / 12.7	40.0 / 40.5
EX/M40/TAG	40.2 / 40.7	13.0 / 13.5	45.0 / 45.5
EX/M50/TAG	51.0 / 51.5	13.0 / 13.5	58.0 / 58.5
EX/M63/TAG	63.7 / 64.2	13.0 / 13.5	65.0 / 65.5
EX/M75/TAG	76.4 / 76.9	13.0 / 13.5	75.5 / 76.0

Note: Nickel plated available upon request

Accessories
Sealing joint washers, Earth tags & Serrated washers

Sealing Joint Washer

Sealing Joint Washer

Sealing Joint Washer - Metric / **Materials:** Nylon or Fibre

Part No.	Metric Thread Size (mm)	Outside Diameter (mm)	Thickness (mm)	Part No.	Metric Thread Size (mm)	Outside Diameter (mm)	Thickness (mm)
Nylon				**Fibre**			
EXFM03	16	22.0	1.6	EXFM03F	16	22.0	1.6
EXFM04	20	26.0	1.6	EXFM04F	20	26.0	1.6
EXFM05	25	34.3	1.7	EXFM05F	25	34.3	1.7
EXFM06	32	41.5	1.7	EXFM06F	32	41.5	1.7
EXFM07	40	52.0	2.0	EXFM07F	40	52.0	2.0
EXFM08	50	66.5	2.0	EXFM08F	50	66.5	2.0
EXFM09	63	84.5	2.0				

Hex Locknut

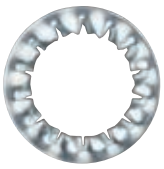
Hex Locknut

Hex Locknut - Metric Thread / **Materials:** Nickel plated, Brass or Stainless steel

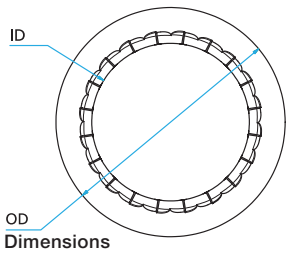
Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)	Part No.	Metric Thread Size (mm)
Nickel Plated		**Brass**		**Stainless Steel**	
WHMM03	16	WHMB03	16	–	16
WHMM04	20	WHMB04	20	MXWH04	20
WHMM05	25	WHMB05	25	MXWH05	25
WHMM06	32	WHMB06	32	MXWH06	32
WHMM07	40	WHMB07	40	MXWH07	40
WHMM08	50	WHMB08	50	MXWH08	50
WHMM09	63	–	63	–	63

Hex Locknut - NPT Thread / **Materials:** Nickel plated, Brass or Stainless steel

Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)	Part No.	NPT Thread Size (inch)
Nickel Plated		**Brass**		**Stainless Steel**	
WHAM03	3/8	WHAB03	3/8	MXAH03	3/8
WHAM04	1/2	WHAB04	1/2	MXAH04	1/2
WHAM05	3/4	WHAB05	3/4	MXAH05	3/4
WHAM06	1	WHAB06	1	MXAH06	1
WHAM07	1 1/4	WHAB07	1 1/4	MXAH07	1 1/4
WHAM08	1 1/2	WHAB08	1 1/2	MXAH08	1 1/2
WHAM09	2	WHAB09	2	MXAH09	2



Serrated Washer



Dimensions

Serrated Washer

Serrated Washer - Metric / **Materials:** Steel

Part No.	Metric Thread Size (mm)	Diameter (mm)	
		Inside	Outside
EX/M16/SER	16	17.5	28.0
EX/M20/SER	20	21.9	33.0
EX/M25/SER	25	26.2	40.0
EX/M32/SER	32	33.0	48.1
EX/M40/SER	40	41.5	60.2
EX/M53/SER	50	51.5	70.0
EX/M63/SER	63	64.6	86.8

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BENRRE040428	–	2/11
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BENRRE060644	–	2/11
BENRRE070750	–	2/11
BENRRE080865	–	2/11
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BESGR0404	–	2/10
BESGR0505	–	2/10
BESGR0606	–	2/10
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Notes

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