PRODUCT CATALOGUE

Kopex-Ex®

Flexible conduit systems and accessories for hazardous areas



Kopex-Ex® cable protection systems have been specifically designed to provide the optimal safe solution for protecting cables in hazardous areas. We offer both non-metallic and metallic conduit systems. Our wide selection of metallic conduit systems are manufactured either in galvanized steel or stainless steel, providing liquid tight solutions for especially demanding hazardous environments.

All metallic and non-metallic conduit systems meet the strictest worldwide standards for use in explosive hazardous atmospheres including ATEX & IECEx.

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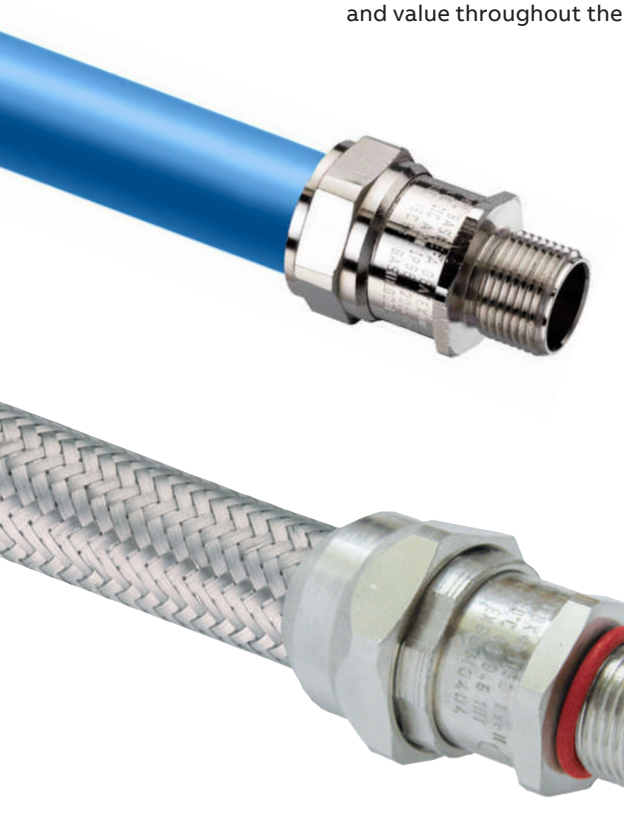
055–065 **Index**

Introduction
Low voltage products for hazardous areas

At ABB, our focus is on improving your business performance by providing practical and reliable products & services. To connect & protect for life.
To solve everyday problems in the areas of Wire & Cable Management, Cable Protection, 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, 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 enclosers
- Customised control panels for hazardous areas
- Ongoing R&D program for innovative and high performance products
- ATEX & IECEX approved metallic and non-metallic conduit systems for cable protection

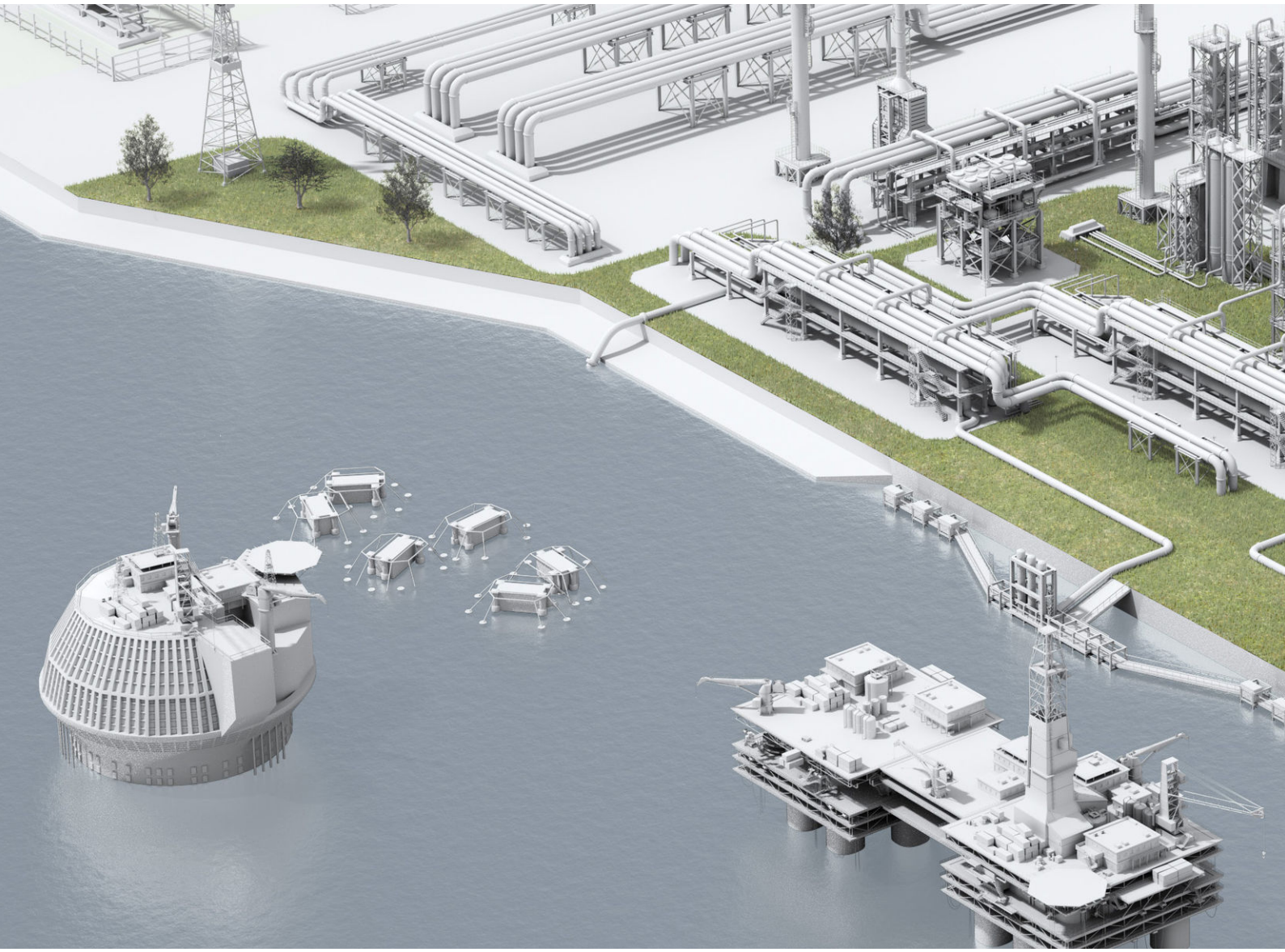
ISO14001 and ISO45001
Environmental standard
Kopex-Ex® solutions are designed with consideration for future recyclability and disposal with minimum impact on the environment at the end of product lifecycle. At present materials currently used for most of our conduits, fittings and accessories are recyclable if disposed of in line with current regulations, keeping the materials separate. Standard packaging materials are fully recyclable.





Our focus is on improving your business performance by providing practical and reliable cable management products & services.

Oil & Gas applications



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01 Application oil & gas

The oil and gas market is split into three sectors: Upstream, Midstream and 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
First there are offshore applications such as the drilling rigs and production platforms; these are always opened 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 or by ensuring that the product is coated to withstand marine environments as in all our Kopex-Ex® conduit systems.



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.

Product Selection

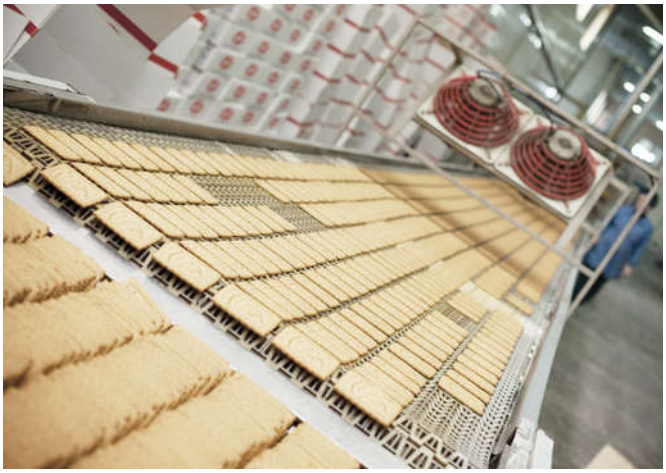
- Salt water corrosion (offshore platforms)
- Oil and chemical resistance (drilling rig mud)
- Extreme ambient temperature
- Protection level
- Connectivity to other pieces of equipment
- Consequence of down time
- Approval level required (Ex e, Ex d, etc.)
- Approval specifications required: e.g ATEX,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

Approvals / Characteristics

- ATEX European directives
- IECEx (International certification system)
- Zones 1, 2, 21, 22
- Ingress Protection (IP)

Food & Beverage applications





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01



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02

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01 Food manufacture - Explosion proof (Dust)
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02 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 various products for food processing and packaging including our Kopex-Ex® conduit systems designed for dust filled atmosphere 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 metallic and non-metallic conduit systems which work with other ABB products to meet the requirement of hazardous areas where explosive gases/vapours presents or other places where the risk of explosion is considered to be extremely high.

Chemical & Pharmaceutical applications





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03



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04

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03 Chemical engineering - Explosion proof
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04 Pharmaceutical production - Explosion proof

Chemical Industry
The chemical industry produces very diverse products, everything from fertilizers to explosives such as nitroglycerin. The processes used in this industry mean that there are lots of applications for our range of Kopex-Ex conduits and fittings to meet the safety requirements for these areas.

Pharmaceutical Industry
The ABB range of products and solutions are ideal for use in the 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 explosive atmospheres standards making our range of Kopex-Ex conduits and fittings ideal.

Certifications and Standards
Global Guide



—
Africa, Australia, Asia (IECEx)

—
Canada (CSA & IECEx)

—
South America (UL and IECEx)

—
Europe (ATEX and IECEx)

—
USA, Mexico (UL)

—
Brazil (InMetro)

—
Russia (EAC and EAC Ex)

—
Rest of World
(Mixed and Local)

—
World standards

Region	Basic Electrical Code	Base Standard	Symbols		Hazardous Area Standards	Symbols	
Europe	IEC	IEC/EN 62444 - Cable Glands IEC/EN 61386 - Conduit Systems IEC/EN 60529 - Ingress Protection	CE	CE	IEC/EN 60079-0 - General Requirements IEC/EN 60079-1 - Flameproof Equipment IEC/EN 60079-7 - Increased Safety IEC/EN 60079-31 - Dust Enclosure	EX IECEx	Ex IEC IECEx
US	NEC	UL514B - Fittings UL360 - Electrical Conduit UL1696 - Protective Tubing	UL UR	UL UR	UL2225 -xxxx UL1203 - xxxx	UL	UL
Canada	CEC	CSA C22.2-18.3 - Fittings CSA C22.2-54-04 - Electrical Conduit CSA C22.2-227.3 - Protective Tubing	CSA	SP	CSA C22.2-25 -30 -174 -94 CSA C22.2/IEC 60079-0 - General Requirements CSA C22.2/IEC 60079-1 - Flameproof Equipment CSA C22.2/IEC 60079-7 - Increased Safety CSA C22.2/IEC 60079-31 - Dust Enclosure	CSA	SP



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World standards

Region	Basic Electrical Code	Base Standard	Symbols	Hazardous Area Standards	Symbols
Russia	IEC	IEC/EN 62444 - Cable Glands IEC/EN 61386 - Conduit Systems IEC/EN 60529 - Ingress Protection	EAC	ГОСТ Р МЭК 60079-0 - General Requirements ГОСТ Р МЭК 60079-7 - Increased Safety ГОСТ Р МЭК 60079-31 - Dust Enclosure ГОСТ IEC 60079-1 - Flameproof Equipment	EAC Ex
Brazil	IEC	ABNT NBR IEC 62444 - Cable Glands ABNT NBR IEC 61386 - Conduit Systems ABNT NBR IEC 60529 - Ingress Protection	InMetro	ABNT NBR IEC 60079-0 - General Requirements ABNT NBR IEC 60079-1 - Flameproof Equipment ABNT NBR IEC 60079-7 - Increased Safety ABNT NBR IEC 60079-31 - Dust Enclosure	InMetro (Segurança)
China	IEC	IEC/EN 62444 - Cable Glands IEC/EN 61386 - Conduit Systems IEC/EN 60529 - Ingress Protection		GB3836.1 - General Requirements GB3836.2 - Flameproof Equipment GB3836.3 - Increased Safety GB12476.1 - Dust General Requirements GB12476.5 - Dust Enclosure	CNEX PCEC

Standards, zone definitions & product markings

Zone definitions – Onshore gases & vapours

Zone 0

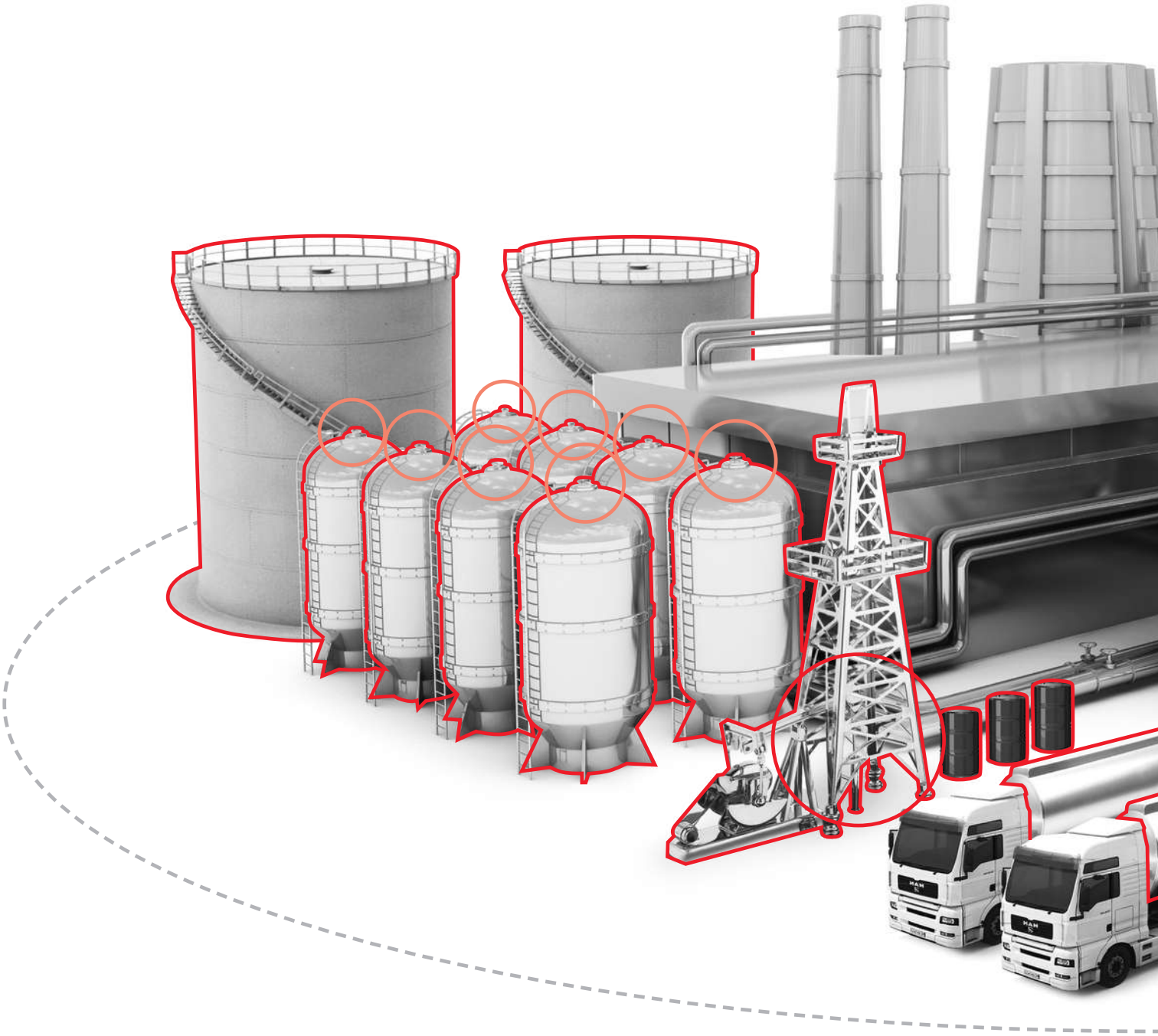
Permanent / Frequent

Place in which an explosive atmosphere consisting of a mixture of air and flammable substances where gas, vapour or mist is present continuously, frequently or for long periods of time.

Zone 1

Ocassional

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



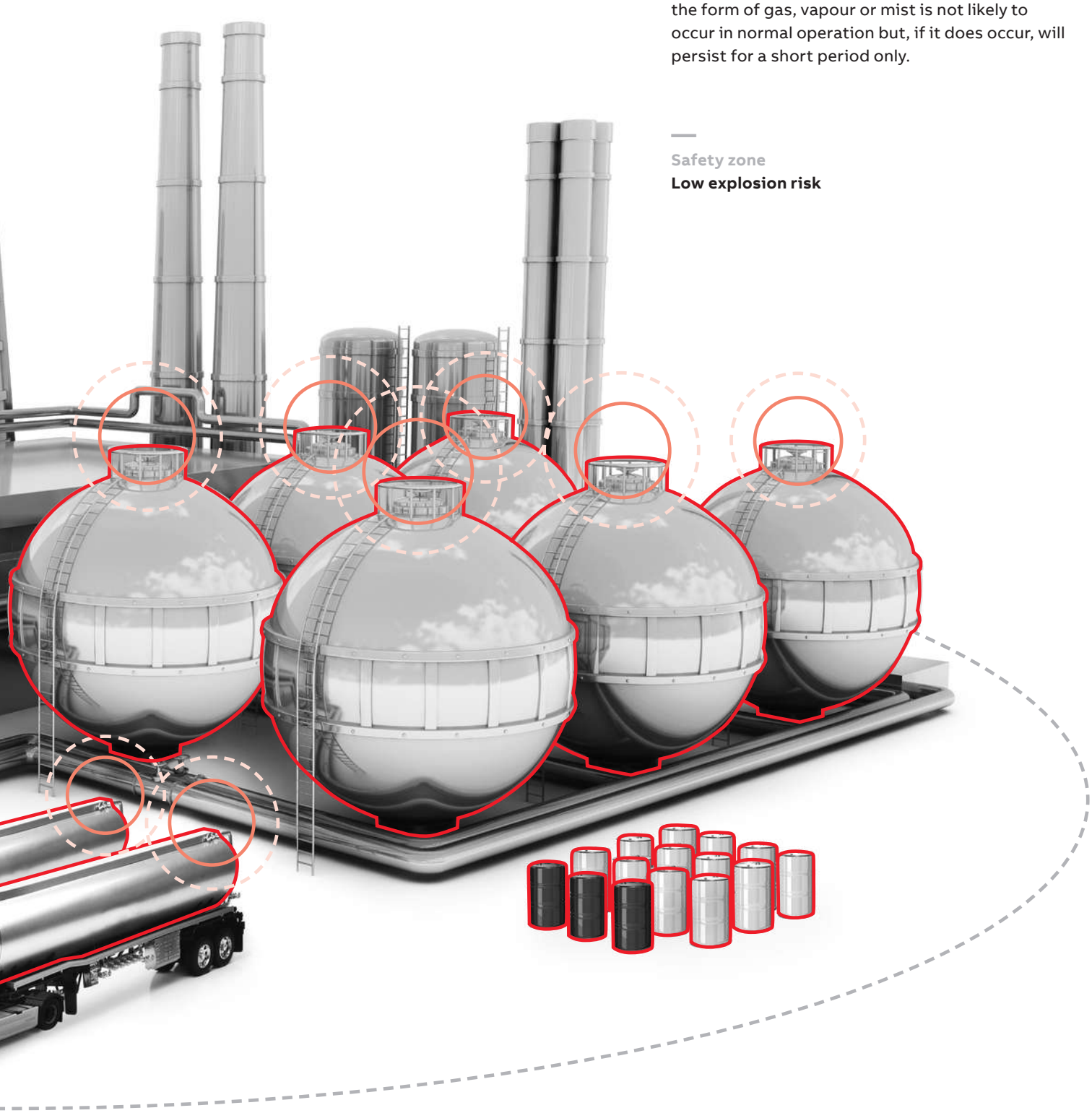
Zone 2

Gas irregular / Short duration

Place in which an explosive atmosphere consisting of a mixture of air and 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

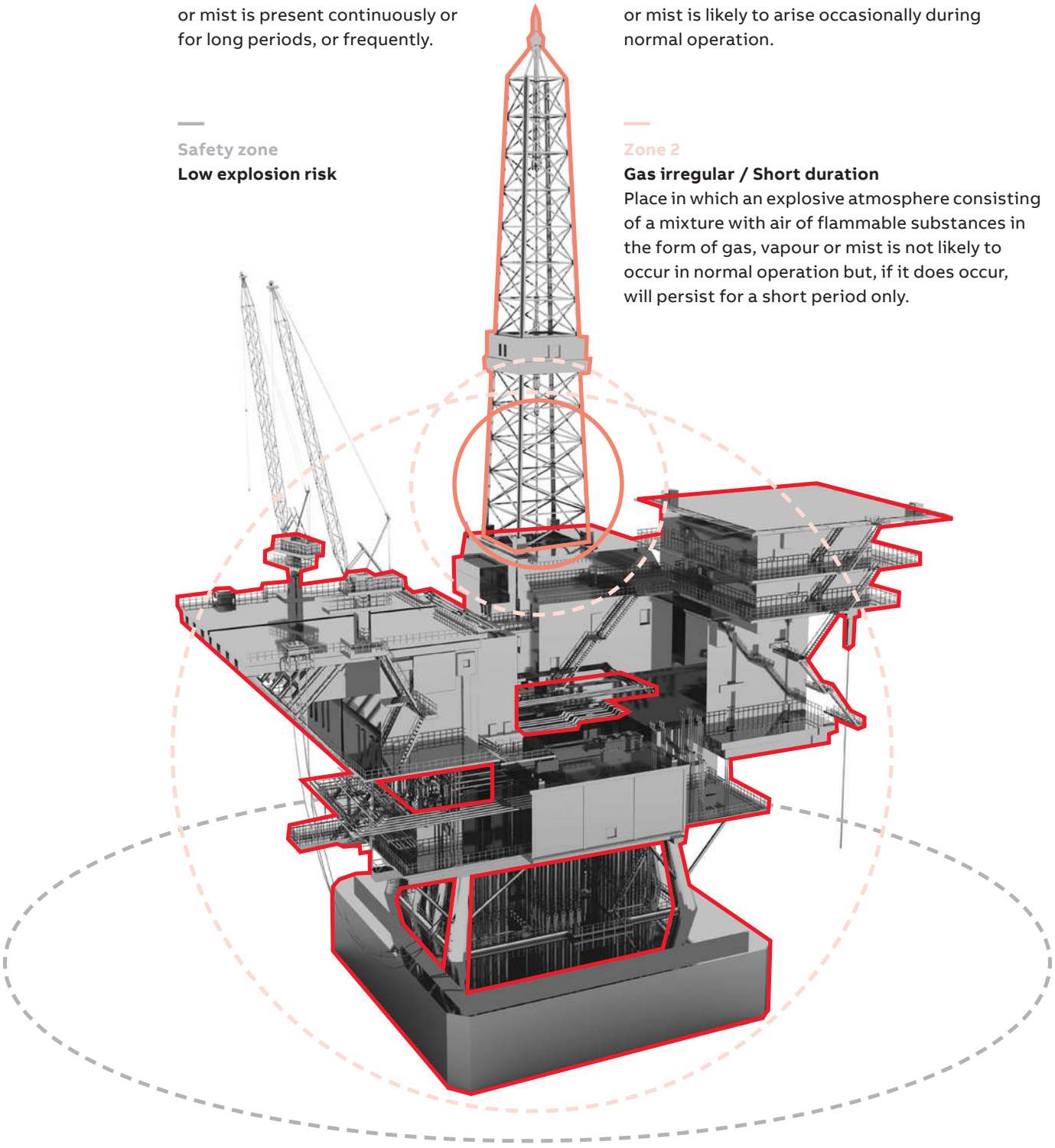
Zone definitions – Offshore gases & vapours

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.

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.

Safety zone
Low explosion risk

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

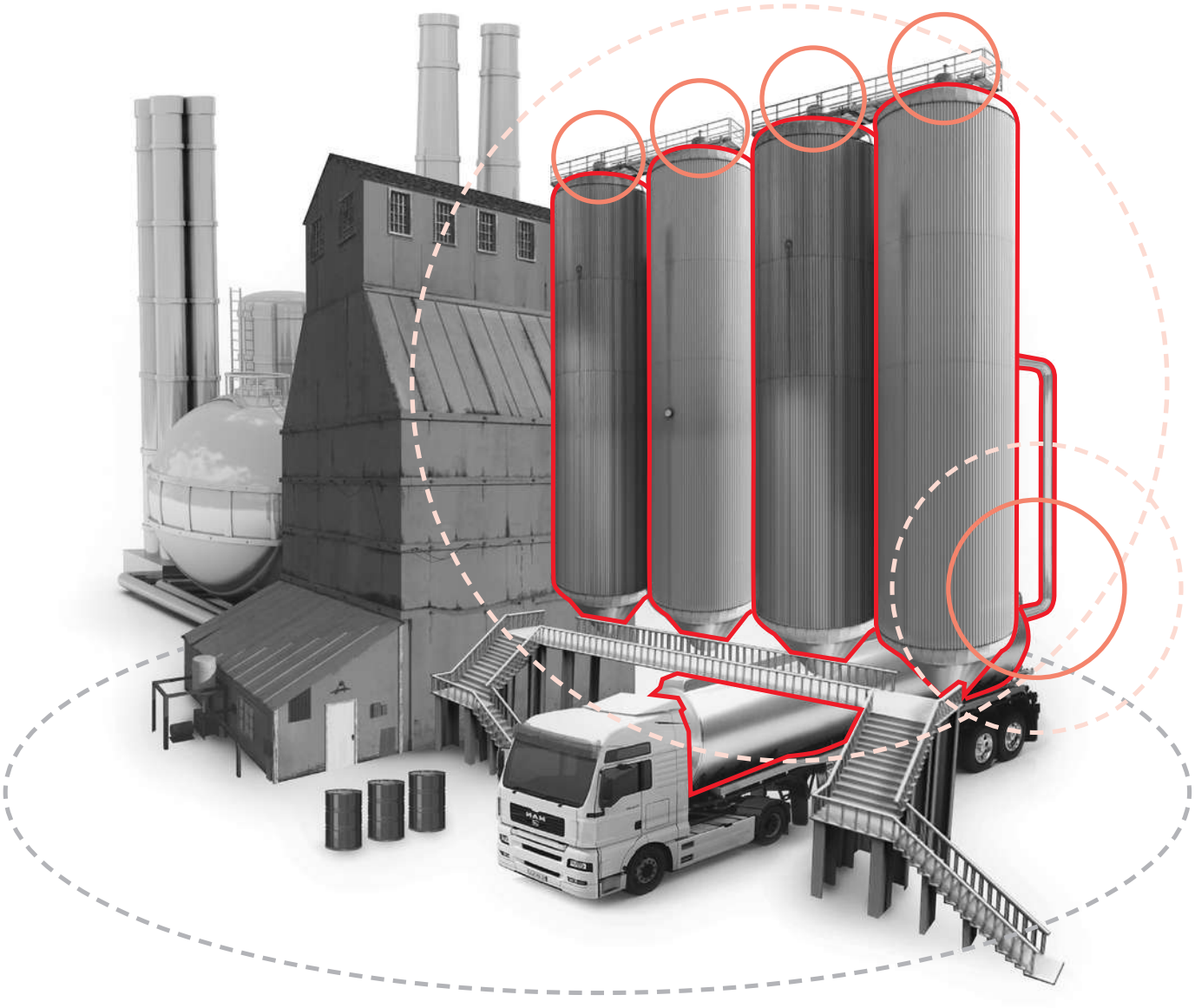
Zone definitions – Dust

Zone 20
Permanent / Frequent
Area in which an explosive atmosphere in the form of a cloud of combustible dust in the 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 the air is likely to occur, occasionally, in normal operation.

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

Safety Zone
No Explosion Risk



Standards, zone definitions & product markings

DTS - Product marking guide

Classifications of hazardous areas

Classifications of hazardous areas		Descriptions	ATEX Group	ATEX Category	EPL	Equipment usage
Mining	Energised	Persistant risk of methane gas and other dusts	**I**	**M1**	**Ma**	–
	De-energised		**I**	**M2**	**Mb**	–
Gas environments	**Zone 0**	Persistant and continuous presence of gas for frequent or long periods	**II**	**1G**	**Ga**	ATEX Equipment Category **1G**, Equipment Protection Level **Ga**
	Zone 1	Likely occurence of gas presence in normal operation	**II**	**2G**	**Gb**	ATEX Equipment Category **2G or higher**, Equipment Protection Level **Gb or higher**
	Zone 2	Unlikely occurence of gas presence in normal operation, short term persistence if any	**II**	**3G**	**Gc**	ATEX Equipment Category **3G**, Equipment Protection Level **Gc or higher**
Dust environments	**Zone 20**	Persistant and continuous presence of dust for frequent or long periods	**II**	**1D**	**Da**	ATEX Equipment Category **1D**, Equipment Protection Level **Da**
	Zone 21	Likely occurence of dust presence in normal operation	**II**	**2D**	**Db**	ATEX Equipment Category **2D or higher**, Equipment Protection Level **Db or higher**
	Zone 22	Unlikely occurence of dust presence in normal operation, short term persistence if any	**II**	**3D**	**Dc**	ATEX Equipment Category **3D or higher**, Equipment Protection Level **Dc or higher**

Gas & dust groups

Group		Typical	Examples
Mining	**I**	Methane (Mining only)	
Gases	**IIA**	Propane	Ammonia, Methane Gasoline, Butane
	IIB	Ethylene	Town gas, Acrylonitril
	IIB+H2	Ethylene	Town gas, Acrylonitril
	IIC	Hydrogen, Acetylene	Carbon disulphide
Dust environments	**IIIA**	Combustable flyings	Wood shaving
	IIIB	Non-conductive dust	Saw dust, flour
	IIIC	Conductive dust	Metal dust

Temperature classification

Class*	Surface temperature
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

* Temperature classification is based on the maximum surface temperature of the equipment in normal use.

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Protection concepts

Protection concepts	Primary	Type of protection	EN/IEC Standard	Sub concept	Gas zones	Dust zones
By enclosure	**Ex d**	Flameproof	60079-1	Ex db	**1**	–
				Ex dc	**2**	
	Ex t	Dust proof	60079-31	Ex ta	–	**20**
				Ex tb		**21**
				Ex tc		**22**
By exclusion	**Ex p**	Pressurisation	60079-2	Ex pxb	**1**	**21/22**
				Ex pyb	**1**	
				Ex pzc	**2**	
	Ex m	Encapsulation	60079-18	Ex ma	**0**	**20**
				Ex mb	**1**	**21**
				Ex mc	**2**	**22**
	Ex o	Oil immersion	60079-6	Exob	**1**	–
	Ex q	Powder filling	60079-5	Exqb	**1**	–
By equipment	**Ex i**	Intrinsically safe	60079-11	Ex ia	**0**	**20**
				Ex ib	**1**	**21**
				Ex ic	**2**	**22**
	Ex op	Optical radiation	60079-28	Ex op is	**0/1/2**	**20/21/22**
				Ex op pr	**1/2**	**21/22**
				Ex op sh	**0/1/2**	**20/21/22**
	Ex e	Increased safety	60079-7	Ex eb	**1**	–
				Ex ec	**2**	
	Ex n	Non sparking	60079-15	Ex nA	**2**	–
		Limited energy		Ex nL		
		Restricted breathing		Ex nR		
		Enclosed breaking		Ex nC		

Standards, zone definitions & product markings

Index of ingress protection

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

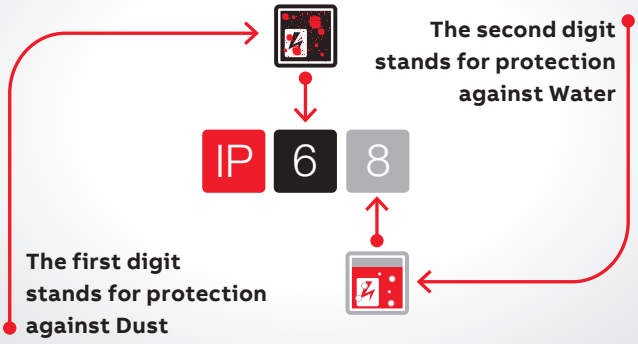
Protection against Solid Bodies
Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

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	IP69 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.





Flexible non-metallic conduit systems for hazardous areas

Conduit fittings – Selection guide

Selection guide






			Nylon conduit fittings	
	EXB **Nylon conduit**	**EXBB** **Nylon conduit**	**EXPQ** **Straight metallic fittings**	**EXBQ** **Straight metallic & braided fittings**
Approvals				
ATEX	•	•	•	•
IEC / IECEx	•	•	•	•
CSA / UL	–	–	–	–
UL	–	–	–	–
EAC Ex	•	•	•	•
Protection Type				
Ex e	•	•	•	•
Ex d	–	–	–	–
Ex de	–	–	–	–
Ex tb	•	•	•	•
Class / Division				
Class I / Div 1	–	–	–	–
Class I / Div 2	–	–	–	–
Class II / Div 1	–	–		
Class II / Div 2	–	–	–	–
Page No.	**21**	**21**	**22**	**23**

Flexible non-metallic conduit system

EXB & EXBB Series – Anti-static nylon & overbraided conduit

EXB Series – 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*	21	21.2	10/30/50
EXB05*	28	28.5	10/30/50
EXB06*	34	34.4	10/30/50
EXB07*	42	42.4	10/30/50
EXB08*	54	54.5	10/30/50
EXB09*	63	67.2	10
EXB10*	80	80.0	10

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

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa 08 ATEX 0003X
	IECEx: IECEx BAS08.0001X
	Ex II 2 GD
	Ex e IIC Gb
	Ex tb IIIC Db

Temperature range
–20˚C to +80˚C

EXBB Series – Overbraided conduit

Compatible with: EXBQM / EXBQA fittings **/ Materials:** Anti-static Nylon 12 **/** Stainless Steel



Part no.	Conduit Size Metric (mm)	Outside diameter (mm)	Coil length (m)
EXBB03*	16	15.8	10/30/50
EXBB04*	20	23.6	10/30/50
EXBB05*	25	30	10/30/50
EXBB06*	32	36	10/30/50
EXBB07*	40	43.5	10/30/50
EXBB08*	50	56.5	10/30/50

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

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa 08 ATEX 0003X
	IECEx: IECEx BAS08.0001X
	Ex II 2 GD
	Ex e IIC Gb
	Ex tb IIIC Db

Temperature range
–20˚C to +80˚C
Special characteristics
Screening level 60dB at 1MHz

Flexible non-metallic conduit system

EXPQ Series – Metallic fittings



Features and benefits:

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

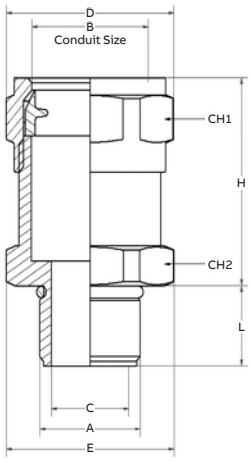
EXPQM / EXPQA Series - Nylon conduit fitting – for use with EXB conduits

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-7, 60079-31
	ATEX: Baseefa 08 ATEX 0003X
	IECEx: IECEx BAS08.0001X
	Ex II 2 GD
	Ex e IIC Gb
	Ex tb IIIC Db

Temperature range
–40°C to +85°C

IP Rating	Material
IP66	Nickel plated brass

DImensions



Part no.	Thread Size A	Nominal Conduit Size B (mm)	C	Cable Gland Dimensions (mm) 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

Flexible non-metallic conduit system

EXBQ Series – Metallic fittings



Features and benefits:

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

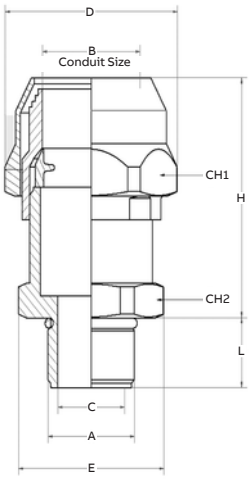
EXBQM / EXBQA Series - Nylon conduit fitting – for use with EXBB conduits

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-7, 60079-31
	ATEX: Baseefa 08 ATEX 0003X
	IECEx: IECEx BAS08.0001X
	Ex II 2 GD
	Ex e IIC Gb
	Ex tb IIIC Db

Temperature range
–40°C to +85°C

IP Rating	Material
IP66	Nickel plated brass

DImensions



Part no.	Thread Size A	Nominal Conduit Size B (mm)	C	Cable Gland Dimensions (mm) 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

Flexible Liquid tight conduit systems for hazardous areas

Conduit fittings - Selection guide

Selection guide



											Liquid tight conduit
Type	**EXLB**	**EXSB**	**EXLT**	**EXST**	**EXSBBT**	**EXBBT**	**EXLUB**	**EXLHC**	**EXLLHC**	**EXSHC**	**EXSLHC**
Approvals											
ATEX	•	•	•	•	•	•	•	•	•	•	•
IEC / IECEx	•	•	•	•	•	•	•	•	•	•	•
CSA	–	–	–	–	–	–	–	–	–	–	–
UL	–	–	–	–	–	–	–	–	–	–	–
EAC Ex	–	–	–	–	–	–	–	–	–	–	–
Protection Type											
Ex e	–	–	–	–	–	–	–	–	–	–	–
Ex d	–	–	–	–	–	–	–	–	–	–	–
Ex de	–	–	–	–	–	–	–	–	–	–	–
Ex tb	•	•	•	•	–	–	•	–	–	–	–
Class / Division											
Class I / Div 1	–	–	–	–	–	–	–	–	–	–	–
Class I / Div 2	–	–	–	–	–	–	–	–	–	–	–
Class II / Div 1	–	–	–	–	–	–	–	–	–	–	–
Class II / Div 2	–	–	–	–	–	–	–	–	–	–	–
Page No.	**26**	**26**	**27**	**27**	**28**	**28**	**30**	**29**	**29**	**29**	**29**







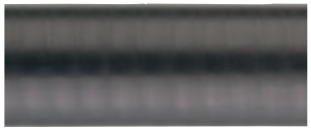

	Liquid tight conduit fittings & glands					
Type	**G1 straight**	**G1 90˚ elbow**	**Universal**	**EXQ**	**EXS 90˚ elbow**	**EXR 45˚ elbow**
Approvals						
ATEX	•	•	•	•	•	•
IEC / IECEx	•	•	•	•	•	•
CSA	•	•	•	•	•	•
UL	–	–	–	–	–	–
EAC Ex						
Protection Type						
Ex e	–	–	–	–	–	–
Ex d	–	–	–	–	–	–
Ex de	•	•	•	–	–	–
Ex tb	•	•	•	•	•	•
Class / Division						
Class I / Div 1	–	–	•	–	–	–
Class I / Div 2	•	•	•	–	–	–
Class II / Div 1	–	–	•	–	–	–
Class II / Div 2	•	•	–	–	–	–
Page No.	**31**	**33**	**34**	**35**	**36**	**37**

Flexible liquid tight metallic conduit systems

EXLB & EXSB Series

EXLB Series – 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 (mm)	US Trade Size (in.)	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

Approvals & certifications

Conformity Conforms to:
Certification standard: IEC 61386
ATEX: Baseefa 15 ATEX 0175X
IECEx: IECEx BAS15.0130X
Ex II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db

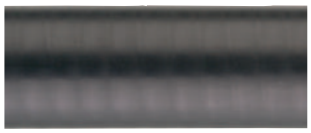
Temperature range
Static temp: -25°C to +105°C
Flexing temp: -5°C to +105°C
Certified temp: -20°C to +70°C

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

Special characteristics
Flame retardant PVC covering

EXSB Series – General oil resistant liquid tight conduit - Stainless steel core

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



Part no.	Conduit Size Metric (mm)	US Trade Size (in.)	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

Approvals & certifications

Conformity Conforms to:
Certification standard: IEC 61386
ATEX: Baseefa 15 ATEX 0175X
IECEx: IECEx BAS15.0130X
Ex II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db

Temperature range
Static temp: -25°C to +105°C
Flexing temp: -5°C to +105°C
Certified temp: -20°C to +70°C

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

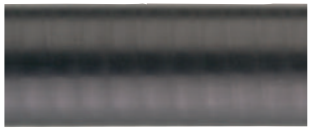
Special characteristics
Flame retardant PVC covering

Flexible liquid tight metallic conduit systems

EXLT & EXST Series

EXLT Series – Low fire hazard liquid tight conduit - Galvanised steel core

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



Part no.	Conduit Size Metric (mm)	US Trade Size (in.)	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

Approvals & certifications

Conformity
Conforms to:

Certification standard: IEC 61386

LUL fully compliant (E1042A6)

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

ATEX: Baseefa 15 ATEX 0175X

IECEx: IECEx BAS15.0130X

Ex II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db

Temperature range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Certified temp: -20°C to +70°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 Series – Low fire hazard liquid tight conduit - Galvanised steel core

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



Part no.	Conduit Size Metric (mm)	US Trade Size (in.)	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

Approvals & certifications

Conformity
Conforms to:

Certification standard: IEC 61386

LUL fully compliant (E1042A6)

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

ATEX: Baseefa 15 ATEX 0175X

IECEx: IECEx BAS15.0130X

Ex II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db

Temperature range

Static temp: -25°C to +90°C

Flexing temp: -5°C to +90°C

Certified temp: -20°C to +70°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)

Flexible liquid tight metallic conduit systems

EXBBT & EXSBBT Series

EXBBT Series – 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 (mm)	US Trade Size (in.)	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

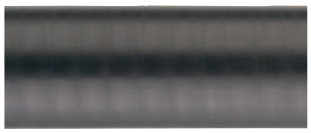
Approvals & certifications	Conformity Conforms to:
CE	Certification standard: IEC 61386 MOD to NES 518: Issue 3 DEF STAN 61-12 (Part 31) Issue 1

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: 72db at 1MHz Braided

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

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



Part no.	Conduit Size Metric (mm)	US Trade Size (in.)	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

Approvals & certifications	Conformity Conforms to:
CE	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

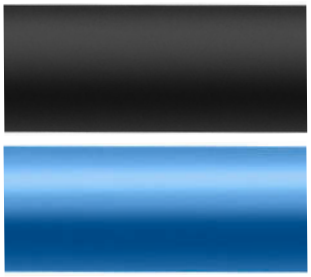
Special characteristics
Limited Fire Hazard covering
EMC Screening level: 72db at 1MHz Braided

Flexible liquid tight conduit

EXLHC, EXLLHC, EXSHC & EXSLHC Series

EXLHC & EXLLHC Series – High temperature, highly flexible liquid tight conduit - Galvanised steel core

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



Part no. Black	Part no. Blue	Conduit Size Metric (mm)	US Trade Size (in.)	Inside diameter (mm)	Coil lengths (m)
EXLHC03*	EXLLHC03	16	3/8	12.5	10/30
EXLHC04*	EXLLHC04	20	1/2	16.0	10/30
EXLHC05*	EXLLHC05	25	3/4	21.0	10/30
EXLHC06*	EXLLHC06	32	1	26.4	10/20
EXLHC07*	EXLLHC07	40	1 1/4	35.3	10/20
EXLHC08*	EXLLHC08	50	1 1/2	40.4	10/20
EXLHC09*	EXLLHC09	63	2	51.6	10/20

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

Approvals & certifications

Conformity Conforms to:
Certification standard: IEC 61386
ATEX Baseefa 15 ATEX 0175X
IECEx: IECEx BAS15.0130X
Ex II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db

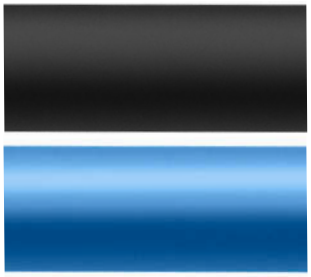
Temperature range
Static temp: -65°C to +150°C
Flexing temp: -45°C to +135°C
Certified temp: -35°C to +105°C

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

Special characteristics
High flexibility
High temperature

EXSHC & EXSLHC Series – High temperature, highly flexible liquid tight conduit - Stainless steel core

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



Part no. Black	Part no. Blue	Conduit Size Metric (mm)	US Trade Size (in.)	Inside diameter (mm)	Coil lengths (m)
EXSHC03*	EXSLHC03	16	3/8	12.5	10/30
EXSHC04*	EXSLHC04	20	1/2	16.0	10/30
EXSHC05*	EXSLHC05	25	3/4	21.0	10/30
EXSHC06*	EXSLHC06	32	1	26.4	10/20
EXSHC07*	EXSLHC07	40	1 1/4	35.3	10/20
EXSHC08*	EXSLHC08	50	1 1/2	40.4	10/20
EXSHC09*	EXSLHC09	63	2	51.6	10/20

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

Approvals & certifications

Conformity Conforms to:
Certification standard: IEC 61386
ATEX Baseefa 15 ATEX 0175X
IECEx: IECEx BAS15.0130X
Ex II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db

Temperature range
Static temp: -65°C to +150°C
Flexing temp: -45°C to +135°C
Certified temp: -35°C to +105°C

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

Special characteristics
High flexibility
High temperature

Flexible liquid tight conduit

EXLUB Series

EXLUB Series – 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 (mm)	US Trade Size (in.)	Inside diameter (mm)	Coil lengths (m)
EXLUB03*	16	3/8	12.5	10/30
EXLUB04*	20	1/2	16.0	10/30
EXLUB05*	25	3/4	21.0	10/30
EXLUB06*	32	1	26.4	10/20
EXLUB07*	40	1 1/4	35.3	10/20
EXLUB08*	50	1 1/2	40.4	10/20
EXLUB09*	63	2	51.6	10/20

* Add coil length to complete part number, e.g. 10 metres = EXLUB0510

Approvals & certifications

Conformity
Conforms to:

Certification standard: IEC 61386
ATEX: Baseefa 15 ATEX 0175X
IECEx: IECEx UL-E76358
UL360 - E76358
Ex II 2 GD
Ex eb IIC Gb
tb IIIC Db

Temperature range
Static temp: -25°C to +105°C
Flexing temp: -5°C to +105°C
Certified temp: -20°C to +70°C

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

Special characteristics
Flame retardant PVC covering

Liquid tight hazardous area flameproof conduit fitting

G1 Series



Features and benefits:

- Constructed from either brass or stainless steel with an epoxy resin barrier the Group I flame-proof fitting is a high specification product, ideal for all hazardous area applications

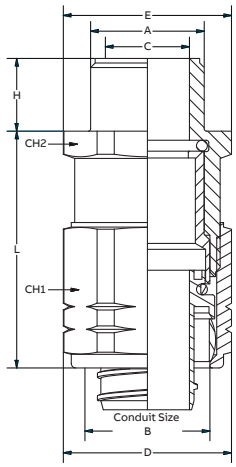
HAMM G1 conduit fitting – Liquid tight hazardous area flameproof fitting

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-1, 60079-7,
	ATEX: Sira 09 ATEX 1231X
	IECEx: IECEx SIR09.0103X
	CSA: CSA File No: 060582
	UL1696: E135398
	Ex I M2/II 2 GD
	Ex de I Mb
	Ex de IIC Gb
	Ex tb IIIC Db
	Class I Div 2 ABCD
	Class II Div 1 EFG

Temperature range
–60ºC to +130ºC

IP Rating	Material
IP66	Nickel plated brass, Brass or Stainless steel 316

DImensions - Metric thread



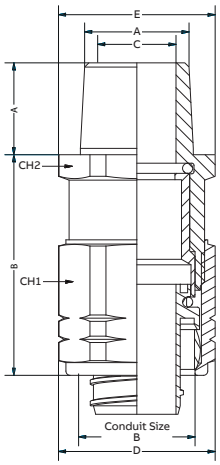
Part no. Nickel plated brass	Metric Thread Size A (mm)	Conduit Size B (mm)	Cable Gland Dimensions (mm) C	D	E	L	H	CH1	CH2
HAMM0304G1	M20	16.0	10.0	34.0	31.0	15.0	50.0	32.0	28.6
HAMM0404G1	M20	20.0	12.5	34.0	31.0	15.0	50.0	32.0	28.6
HAMM0505G1	M25	25.0	18.4	37.0	37.0	15.0	50.0	34.0 (34.9 in SS)	34.0
HAMM0606G1	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 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 conduit fitting

G1 Series

Dimensions - NPT thread



Part no. Nickel plated brass	NPT Thread Size A (in.)	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 Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304G1 for Metric / HAAS0304G1 for NPT

Sealing compounds

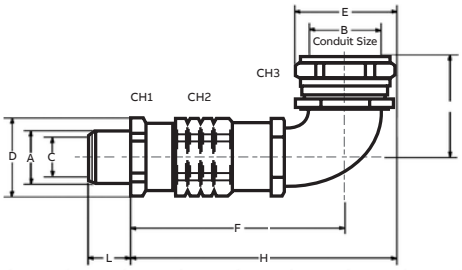
Part No.	Description	Pack size (g)
EXEP50	Epoxy Putty	50
EXEP75	Epoxy Putty	75

Handling precaution - EXEP is intended to be mixed by hand, however all putties of this type are manufactured from reactive chemicals which can cause skin irritation, especially to those people with a history of chemical allergy. Whilst these products have been used safely in industry for over 25 years, we would recommend the use of gloves or a barrier cream.

Liquid tight hazardous area flameproof conduit fitting

G1 Series – 90˚ elbow





HAMM G1 90˚ Elbow conduit fitting – Metric thread dimensions

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	M20	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	69.7	60.0

* For Stainless Steel version, replace last M from the reference with an S, e.g. HAMS0304E

HAAM G1 90˚ Elbow conduit fitting – NPT thread dimensions

Materials: Nickel plated brass or stainless steel 316

Part no. Nickel plated brass	NPT Thread Size A (mm)	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	123.0	56.0	146.0	26.0	60.0	69.7	60.0

* For Stainless Steel version, replace last M from the reference with an S, e.g. HAAS0304E

Sealing compounds

Part No.	Description	Pack size (g)
EXEP50	Epoxy Putty	50
EXEP75	Epoxy Putty	75

Handling precaution - EXEP is intended to be mixed by hand, however all putties of this type are manufactured from reactive chemicals which can cause skin irritation, especially to those people with a history of chemical allergy. Whilst these products have been used safely in industry for over 25 years, we would recommend the use of gloves or a barrier cream.

Liquid tight hazardous area flameproof conduit fitting

Universal fitting



Features and benefits:

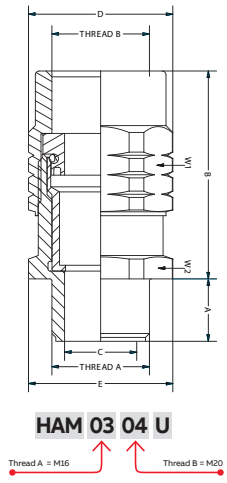
- Constructed from either brass, nickel plated or stainless steel with an epoxy resin barrier
- The Group I universal flameproof fitting is a high specification product, ideal for all hazardous area applications

HAMM G1 conduit fitting – Liquid tight hazardous area flameproof fitting

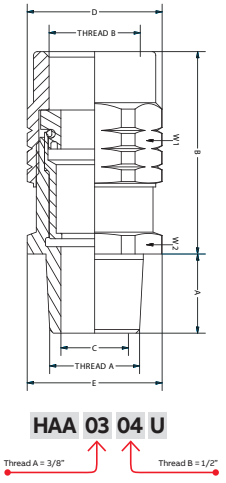
Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-1, 60079-7, 60079-31
	ATEX: Sira 09 ATEX 1231X
	IECEx: IECEx SIR09.0103X
	CSA: CSA File No: 060582
	Ex de I Mb
	Ex de IIC Gb
	Ex tb IIIC Db
	Class I DIv 1 BCD (Rigid conduit only)
	Class I Div 2 ABCD
	Class II Div 1 ABCD

Temperature range	
–60ºC to +130˚C	

IP Rating	Material
IP66	Nickel plated brass, Brass or Stainless steel

Product code	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
	Stainless Steel		
	HAMS0304U	20	16
	HAMS0404U	20	20
	HAMS0505U	25	25
	HAMS0606U	32	32
	HAMS0707U	40	40
	HAMS0808U	50	50
	HAMS0909U	63	63

Note. For use with rigid conduit or other fittings

Product code	Part no.	Male Thread Size NPT (in.)	Female Thread Size NPT (in.)
	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
	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

Note. For use with rigid conduit or other fittings

Sealing compounds

Part No.	Description	Pack size (g)
EXEP50	Epoxy Putty	50
EXEP75	Epoxy Putty	75

Handling precaution - EXEP is intended to be mixed by hand, however all putties of this type are manufactured from reactive chemicals which can cause skin irritation, especially to those people with a history of chemical allergy. Whilst these products have been used safely in industry for over 25 years, we would recommend the use of gloves or a barrier cream.

Liquid tight hazardous area flameproof conduit fitting

EXQ Series – Straight



Features and benefits:

- Nickel plated brass
- Brass conduit seal
- Silicone O'ring thread seal
- Nylon anti-abrasion cable protector
- Ex eb Ex tb approved
- Suitable for use in zones 1, 2, 21 and 22

EXQ Series – Straight conduit fitting

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-1, 60079-7, 60079-31, IEC 61386 Compliant
	For use with Ex LT Conduits
	Baseefa 15 ATEX 0175X, IECEx BAS
	Ex II 2 GD
	Ex eb IIC Gb
	Ex tb IIIC Db

Temperature range
EX*HC -35°C to +105°C
EX*T -20°C to +70°C
EX*B -20°C to +70°C
EX*UB -20°C to +70°C

IP Rating	Material
IP66	Nickel plated brass, Brass or Stainless steel 316

DImensions - Metric thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXQM0303	16	3/8	M16x1.5	21.0	25.4
EXQM0304	16	3/8	M20x1.5	21.0	25.4
EXQM0404	20	1/2	M20x1.5	22.0	28.5
EXQM0505	25	3/4	M25x1.5	25.0	35.0
EXQM0606	32	1	M32x1.5	30.0	42.0
EXQM0707	40	1-1/4	M40x1.5	38.0	52.0
EXQM0808	50	1-1/2	M50x1.5	41.0	60.0
EXQM0909	63	2	M63x1.5	46.0	70.0

*For Stainless Steel fittings, please add S after M in part number, e.g. EXQMS0303
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

DImensions - NPT thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXQA0304	16	1/2	1/2	21.0	25.4
EXQA0404	20	1/2	1/2	22.0	28.5
EXQA0505	25	3/4	3/4	25.0	35.0
EXQA0606	32	1	1	30.0	42.0
EXQA0707	40	1-1/4	1-1/4	38.0	52.0
EXQA0808	50	1-1/2	1-1/2	41.0	60.0
EXQA0909	63	2	2	46.0	70.0

*For Stainless Steel fittings, please add S after A, e.g. EXQAS0304
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

Liquid tight hazardous area flameproof conduit fitting

EXS Series – 90˚ elbow



Features and benefits:

- Nickel plated brass
- Brass conduit seal
- Silicone O'ring thread seal
- Nylon anti-abrasion cable protector
- Ex eb Ex tb approved
- Suitable for use in zones 1, 2, 21 and 22

EXS Series – 90˚ elbow conduit fitting

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-7, 60079-31, IEC 61386 Compliant
	For use with Ex LT Conduits
	Baseefa 15 ATEX 0175X, IECEx BAS 15.0130X
	Ex II 2 GD
	Ex eb IIC Gb
	Ex tb IIIC Db

Temperature range
EX*HC -35°C to +105°C
EX*T -20°C to +70°C
EX*B -20°C to +70°C
EX*UB -20°C to +70°C

IP Rating	Material
IP66	Nickel plated brass, Brass or Stainless steel 316

DImensions - Metric thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXSM0303	16	3/8	M16x1.5	48.0	25.4
EXSM0304	16	3/8	M20x1.5	48.0	25.4
EXSM0404	20	1/2	M20x1.5	53.7	28.5
EXSM0505	25	3/4	M25x1.5	63.7	35.0
EXSM0606	32	1	M32x1.5	74.4	42.0
EXSM0707	40	1-1/4	M40x1.5	88.4	52.0
EXSM0808	50	1-1/2	M50x1.5	99.8	60.0
EXSM0909	63	2	M63x1.5	120.9	70.0

*For Stainless Steel fittings, please add S after M, e.g. EXSMS0303
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

DImensions - NPT thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXSA0304	16	1/2	1/2	21.0	25.4
EXSA0404	20	1/2	1/2	22.0	28.5
EXSA0505	25	3/4	3/4	25.0	35.0
EXSA0606	32	1	1	30.0	42.0
EXSA0707	40	1-1/4	1-1/4	38.0	52.0
EXSA0808	50	1-1/2	1-1/2	41.0	60.0
EXSA0909	63	2	2	46.0	70.0

*For Stainless Steel fittings, please add S after A, e.g. EXSAS0304
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

Liquid tight hazardous area flameproof conduit fitting

EXR Series – 45˚ Elbow



Features and benefits:

- Nickel plated brass
- Brass conduit seal
- Silicone O'ring thread seal
- Nylon anti-abrasion cable protector
- Ex eb Ex tb approved
- Suitable for use in zones 1, 2, 21 and 22

EXR Series – 45˚ elbow conduit fitting

Approvals & certifications	Conformity Conforms to:
	IEC EN 60079-0, 60079-7, 60079-31, IEC 61386 Compliant
	For use with Ex LT Conduits
	Baseefa 15 ATEX 0175X, IECEx BAS 15.0130X
	Ex II 2 GD
	Ex eb IIC Gb
	Ex tb IIIC Db

Temperature range
EX*HC -35°C to +105°C
EX*T -20°C to +70°C
EX*B -20°C to +70°C
EX*UB -20°C to +70°C

IP Rating	Material
IP66	Nickel plated brass, Brass or Stainless steel 316

DImensions - Metric thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXRM0303	16	3/8	M16x1.5	54.0	25.4
EXRM0304	16	3/8	M20x1.5	55.0	25.4
EXRM0404	20	1/2	M20x1.5	58.0	28.5
EXRM0505	25	3/4	M25x1.5	65.6	35.0
EXRM0606	32	1	M32x1.5	75.0	42.0
EXRM0707	40	1-1/4	M40x1.5	93.8	52.0
EXRM0808	50	1-1/2	M50x1.5	106.5	60.0
EXRM0909	63	2	M63x1.5	125.0	70.0

*For Stainless Steel fittings, please add S after M, e.g. EXRMS0303
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

DImensions - NPT thread

	Conduit Size				
Part no.	Metric (mm)	US Trade (in.)	Thread Metric	Length (mm)	Across Flats (mm)
EXRA0304	16	1/2	1/2	55.0	25.4
EXRA0404	20	1/2	1/2	58.0	28.5
EXRA0505	25	3/4	3/4	65.6	35.0
EXRA0606	32	1	1	85.0	42.0
EXRA0707	40	1-1/4	1-1/4	93.8	52.0
EXRA0808	50	1-1/2	1-1/2	106.5	60.0
EXRA0909	63	2	2	125.0	70.0

*For Stainless Steel fittings, please add S after A, e.g. EXRAS0304
**Compatible with: EX*B, EX*T, EX*HC, EX*UB Conduits

Accessories for hazardous area

SP Series - Ex d Standard stopping plug



SP Series - Stopping plug - standard Ex d

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0324
	IECEx: IECEx BAS08.0109X
	ETL: 3176087
	UL 1203 (Nickel Plated Brass and Stainless Steel only)
	Ⓔx I M2 / II 2 G, Ex d I Mb, Ex d IIC Gb
	Class I Div 1 ABCD
	Class II Div 1 EFG

Temperature range
–20°C to +200°C (–4°F to +392°F)

Material
Nickel plated brass or stainless steel

Standard Ex d stopping plug – metric thread

Nickel plated Part no.	Metric Thread Size (mm)	Stainless steel Part no.	Metric Thread Size (mm)
EXN/M16/SP	M16	EXS/M16/SP	M16
EXN/M20/SP	M20	EXS/M20/SP	M20
EXN/M25/SP	M25	EXS/M25/SP	M25
EXN/M32/SP	M32	EXS/M32/SP	M32
EXN/M40/SP	M40	EXS/M40/SP	M40
EXN/M50/SP	M50	EXS/M50/SP	M50
EXN/M63/SP	M63	EXS/M63/SP	M63

Standard Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
EXN/038/SP	3/8	EXS/038/SP	3/8
EXN/050/SP	1/2	EXS/050/SP	1/2
EXN/075/SP	3/4	EXS/075/SP	3/4
EXN/100/SP	1	EXS/100/SP	1
EXN/125/SP	1 1/4	EXS/125/SP	1 1/4
EXN/150/SP	1 1/2	EXS/150/SP	1 1/2
EXN/200/SP	2	EXS/200/SP	2

Accessories for hazardous area

TSP Series - Ex d Tamperproof stopping plug



TSP Series - Stopping plug - standard Ex d

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0324
	IECEx: IECEx BAS08.0109X
	ETL: 3176087
	UL 1203 (Nickel Plated Brass and Stainless Steel only)
	I M2 / II 2 G, Ex d I Mb, Ex d IIC Gb
	Class I Div 1 ABCD
	Class II Div 1 EFG

Temperature range
–20°C to +200°C (–4°F to +392°F)

Material
Nickel plated brass or stainless steel

Tamperproof Ex d stopping plug – metric thread

Nickel plated Part no.	TSP	Metric Thread Size (mm)	Stainless steel Part no.	Metric Thread Size (mm)
EXN/M16/TSP		M16	EXS/M16/TSP	M16
EXN/M20/TSP		M20	EXS/M20/TSP	M20
EXN/M25/TSP		M25	EXS/M25/TSP	M25
EXN/M32/TSP		M32	EXS/M32/TSP	M32
EXN/M40/TSP		M40	EXS/M40/TSP	M40
EXN/M50/TSP		M50	EXS/M50/TSP	M50
EXN/M63/TSP		M63	EXS/M63/TSP	M63

Tamperproof Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
EXN/038/TSP	3/8	EXS/038/TSP	3/8
EXN/050/TSP	1/2	EXS/050/TSP	1/2
EXN/075/TSP	3/4	EXS/075/TSP	3/4
EXN/100/TSP	1	EXS/100/TSP	1
EXN/125/TSP	1 1/4	EXS/125/TSP	1 1/4
EXN/150/TSP	1 1/2	EXS/150/TSP	1 1/2
EXN/200/TSP	2	EXS/200/TSP	2

Accessories for hazardous area

HSP Series - Ex e Hex head stopping plug



HSP Series - Ex e hex head and dome head stopping plugs

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0325X
	IECEx: IECEx BAS08.0108X
	Ⓔ I M2 / II 2 GD, Ex d e I Mb, Ex d e IIC Gb
	Ex tb IIIC Db

Temperature range
–60°C to +130°C (–76°F to +266°F)

IP Rating	Material
IP65/66	Nickel plated brass or stainless steel

Hex head Ex e stopping plug – metric thread

Nickel plated Part no.	Metric Thread Size (mm)
EXN/M16/HSP	M16
EXN/M20/HSP	M20
EXN/M25/HSP	M25
EXN/M32/HSP	M32
EXN/M40/HSP	M40
EXN/M50/HSP	M50
EXN/M63/HSP	M63

Stainless Steel Part no.	Metric Thread Size (mm)
EXS/M16/HSP	M16
EXS/M20/HSP	M20
EXS/M25/HSP	M25
EXS/M32/HSP	M32
EXS/M40/HSP	M40
EXS/M50/HSP	M50
EXS/M63/HSP	M63

Accessories for hazardous area

DSP Series - Ex e Hex head stopping plug



DSP Series - Ex e hex head and dome head stopping plugs

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0325X
	IECEx: IECEx BAS08.0108X
	Ⓔx I M2 / II 2 GD, Ex d e I Mb, Ex d e IIC Gb
	Ex tb IIIC Db

Temperature range
–60°C to +130°C (–76°F to +266°F)

IP Rating	Material
IP65/66	Nickel plated brass or stainless steel

Dome head Ex e stopping plug – metric thread

Nickel plated Part no.	Metric Thread Size (in)
EXN/M16/DSP	M16
EXN/M20/DSP	M20
EXN/M25/DSP	M25
EXN/M32/DSP	M32
EXN/M40/DSP	M40
EXN/M50/DSP	M50
EXN/M63/DSP	M63

Stainless Steel Part no.	Metric Thread Size (in)
EXS/M16/DSP	M16
EXS/M20/DSP	M20
EXS/M25/DSP	M25
EXS/M32/DSP	M32
EXS/M40/DSP	M40
EXS/M50/DSP	M50
EXS/M63/DSP	M63

Accessories for hazardous area

Ex e Nylon stopping plug

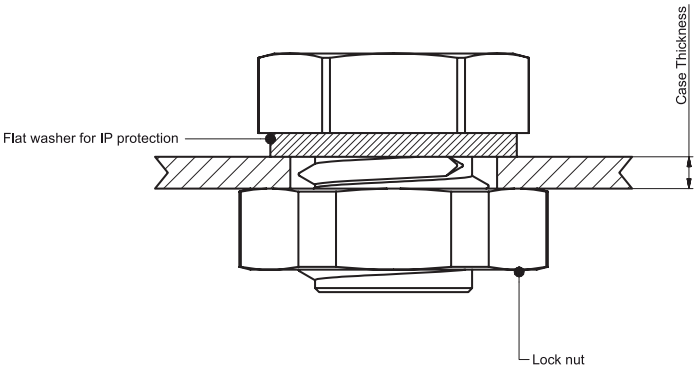


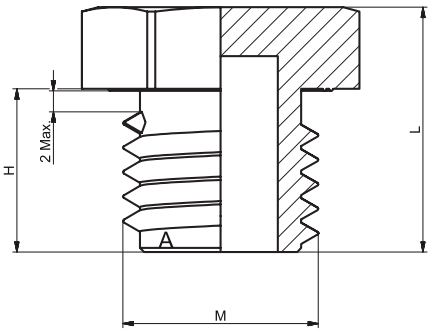
Ex e Nylon stopping plugs

Approvals & certifications	Conformity Conforms to:
	IMQ 13 ATEX 016X, IECEx IMQ
	Ⓔx II 2 GD, Ex e IIC Gb, Ex tb IIIC Db

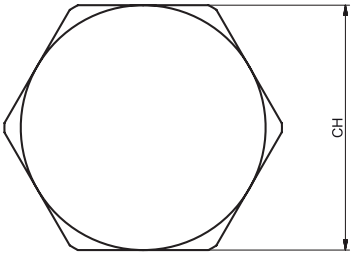
Temperature range
–60°C to +130°C (–76°F to +266°F)

IP Rating	Material
IP66-IP68 (5 Bar 30 Mins)	Nylon





Nylon Type - Metric	Thread Size Metric (mm)	H	L	CH
EX-M12	12	8	15	15
EX-M16	16	10	15	19
EX-M20	20	10	15	23
EX-M25	25	10	15	28
EX-M32	32	15	20	36
EX-M40	40	18	27	46
EX-M50	50	18	27	55
EX-M63	63	18	27	69



Accessories for hazardous area

TC Series - Ex d e Thread adaptors



TC Series - Ex d e thread adaptors

Approvals & certifications	Conformity Conforms to:	Temperature range
	ATEX: Baseefa07 ATEX 0247X	–60°C to + 100°C (–76°F to +212°F)
	IECEx: IECEx BAS07.0090X	
	Ⓔx I M2 / II 2 GD, Ex d e I Mb, Ex d e IIC Gb, Ex tb IIIC Db	**Material**
	Class I Div1 ABCD, Class II Div1 EFG (does not include M16 & 3/8”NPT or unplated brass products)	Nickel plated brass or stainless steel
	UL 1203	
	CSA C22.2 No.60079-04	
	C22.2 No.60079-1	

Metallic thread adaptor – metric thread

Male external thread	Metric Female Internal Thread							
Nickel plated	**M16**	**M20**	**M25**	**M32**	**M40**	**M50**	**M63**	**M75**
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

* For stainless steel 316 version, add S to the reference, e.g. EXS/M16/SP
N.B. PG thread convertors available upon request

Accessories for hazardous area

TC Series - Ex d e Thread adaptors

TC Series - Ex d e Metallic thread adaptor – NPT thread

Male external thread	NPT Female Internal Thread							
Nickel plated	NPT 1/2	NPT 3/4	NPT 1	NPT $1^1/_4$	NPT $1^1/_2$	NPT 2	NPT $2^1/_2$	NPT 3
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	

Accessories for hazardous area

Ex d e Coupler



Ex d e Coupler

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa 08 ATEX 0003X
	Ex de IIC Gb
	Ex tb IIIC Db

Temperature range
–60°C to +200°C (–76°F to +392°F)

Material
Nickel plated brass or stainless steel

Ex d e Coupler - Metric thread

Nickel plated Part no.	Metric Thread Size (mm)	Stainless Steel Part no.	Metric Thread Size (mm)
EXN/M16/C	M16	EXS/M16/C	M16
EXN/M20/C	M20	EXS/M20/C	M20
EXN/M25/C	M25	EXS/M25/C	M25
EXN/M32/C	M32	EXS/M32/C	M32
EXN/M40/C	M40	EXS/M40/C	M40
EXN/M50/C	M50	EXS/M50/C	M50
EXN/M63/C	M63	EXS/M63/C	M63
EXN/M75/C	M75	EXS/M75/C	M75

Ex d e Female to female coupler - NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Stainless Steel Part no.	NPT Thread Size (in)
EXN/038/C	3/8	EXS/038/C	3/8
EXN/050/C	1/2	EXS/050/C	1/2
EXN/075/C	3/4	EXS/075/C	3/4
EXN/100/C	1	EXS/100/C	1
EXN/125/C	1 1/4	EXS/125/C	1 1/4
EXN/150/C	1 1/2	EXS/150/C	1 1/2
EXN/200/C	2	EXS/200/C	2
EXN/250/C	2 1/2	EXS/250/C	2 1/2

Accessories for hazardous area

DV Series - Ex e Drainage device



DV Series - Ex e metallic drain valve

Features and benefits:

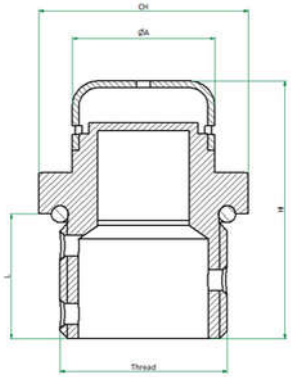
- Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- Allows water/condensation to drain from enclosure

Approvals & certifications	Conformity Conforms to:
	IMQ 15 ATEX 012U, IECEx IMQ
	Ex II 2 GD
	Ex e IIC Gb
	Ex tb IIIC Db

Temperature range
–60°C to +200°C (–76°F to +392°F)

IP Rating	Material
IP66	Nickel plated brass
	Stainless steel

DImensions

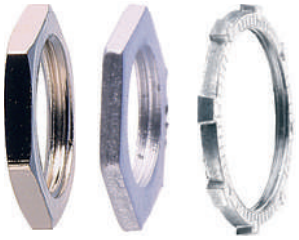


Metric thread	Part no.	Thread	Nominal dimensions (mm/in) Length	H Min	QA	CH
	EXN/M20/DV	M20	15.0	31.0	17.0	25.0
			0.590	1.220	0.669	0.984
	EXN/M25/DV	M25	15.0	31.0	17.0	32.0
			0.590	1.220	0.669	1.259
	EXN/050/DV	1/2" NPT	16.0	32.0	17.0	25.0
			0.629	1.259	0.669	0.984
	EXN/075/DV	3/4" NPT	16.0	32.0	17.0	32.0
			0.629	1.259	0.669	1.259
	EXS/M20/DV	M20	15.0	31.0	17.0	25.0
			0.590	1.220	0.669	0.984
	EXS/M25/DV	M25	15.0	31.0	17.0	32.0
			0.590	1.220	0.669	1.259
	EXS/050/DV	1/2" NPT	16.0	32.0	17.0	25.0
			0.629	1.259	0.669	0.984
	EXS/075/DV	3/4" NPT	16.0	32.0	17.0	32.0
			0.629	1.259	0.669	1.259

Accessories for hazardous area

Type LNB / LNS / LNSS & SW

Type LNB / LNS - Metallic locknuts



	Part no.	
Metallic thread	Nickel plated Brass	Galvanised steel
M12 x 1.0	LNB/M12X1	
M12 x 1.5	LNB/M12	
M16	LNB/M16	LNS/M16
M20	LNB/M20	LNS/M20
M25	LNB/M25	LNS/M25
M32	LNB/M32	LNS/M32
M40	LNB/M40	LNS/M40
M50	LNB/M50	LNS/M50
M63	LNB/M63	
M75	LNB/M75	

	Part no.
PG thread	Nickel plated Brass
PG7	LNB/PG7
PG9	LNB/PG9
PG11	LNB/PG11
PG13.5	LNB/PG13
PG16	LNB/PG16
PG21	LNB/PG21
PG29	LNB/PG29
PG36	LNB/PG36
PG42	LNB/PG42
PG48	LNB/PG48

	Part no.
NPT thread (in)	Galvanised Steel
3/8	LNS/038
1/2	LNS/050
3/4	LNS/075
1	LNS/100
1 1/4	LNS/125
1 1/2	LNS/150
2	LNS/200

For stainless steel version it will be LNSS/thread, e.g LNSS/M20 or LNSS/050

Type SW - Thread sealing washer



Metric thread	Part no.
M12	SWM12*
M16	SWM16
M20	SWM20
M25	SWM25
M32	SWM32
M40	SWM40
M50	SWM50
M63	SWM63

PG thread	Part no.
PG07	SWPG07
PG09	SWPG09
PG11	SWPG11
PG13	SWPG13
PG16	SWPG16
PG21	SWPG21
PG29	SWPG29
PG36	SWPG36
PG42	SWPG42
PG48	SWPG48

NPT & PF thread (in)	Part no.
3/8	SW038
1/2	SW050
3/4	SW075
1	SW100
1 1/4	SW125
1 1/2	SW150
2	SW200

Accessories for hazardous area

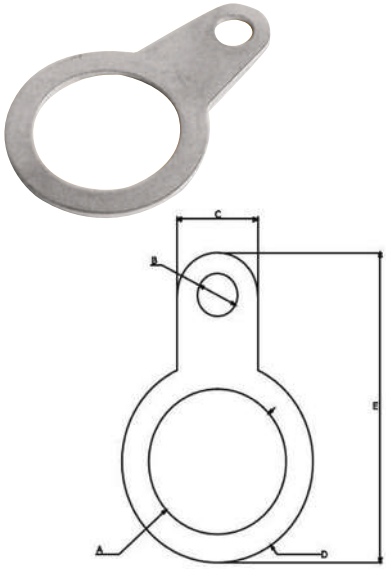
Serrated washer & earth tag

Serrated washer - metric



Part no.	Metric thread size (mm)	Diameter (mm)	
		Inside	Outside
EXS/M16/SER	M16	17.5	28.0
EXS/M20/SER	M20	21.9	33.0
EXS/M25/SER	M25	26.2	40.0
EXS/M32/SER	M32	33.0	48.1
EXS/M40/SER	M40	41.5	60.2
EXS/M53/SER	M50	51.5	70.0
EXS/M63/SER	M63	64.6	86.8

Earth tag - metrtic



Part no.	Thread size	A	B	C	D	E
ET/M16	M16x1.5	16.25	6.50	13.00	25.00	45.00
		(0.640)	(0.256)	(0.512)	(0.984)	(1.772)
ET/M20	M20x1.5	20.25	6.50	13.00	29.00	48.00
		(0.797)	(0.256)	(0.512)	(0.984)	(1.890)
ET/M25	M25x1.5	25.50	6.50	13.00	37.00	57.50
		(1.004)	(0.256)	(0.512)	(1.457)	(2.264)
ET/M32	M32x1.5	33.50	6.50	15.80	44.00	69.30
		(1.319)	(0.256)	(0.622)	(1.732)	(2.728)
ET/M40	M40x1.5	40.25	6.50	16.20	52.50	78.00
		(0.64)	(0.256)	(0.512)	(0.984)	(1.772)
ET/M50	M50x1.5	50.25	6.50	16.00	64.00	90.50
		(1.978)	(0.256)	(0.63)	(2.52)	(3.563)
ET/M63	M63x1.5	63.30	6.50	23.00	79.50	117.00
		(2.492)	(0.256)	(0.906)	(3.13)	(4.606)
ET/M75	M75x1.5	75.20	6.50	24.00	96.25	133.50
		(2.961)	(0.256)	(0.945)	(3.789)	(5.256)



Thread data

Metric Thread Data
Standard thread conforming to EN60423 & BS3643

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
M8	8	6.9	1
M10	10	8.9	1
M12	12	10.9	1
M12	12	10.4	1.5
M16	16	14.4	1.5
M18	18	16.9	1
M20	20	18.4	1.5
M25	25	23.4	1.5
M30	30	28.4	1.5
M32	32	30.4	1.5
M40	40	38.4	1.5
M50	50	48.4	1.5
M63	63	61.4	1.5
M75	75	73.4	1.5

NOTE: Dimensions are nominal

PG Thread Data
German Standard Thread Conforming to DIN40430

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13,5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37	35.5	1.59
PG36	47	45.5	1.59
PG42	54	52.5	1.59
PG48	59.3	57.8	1.59

NOTE: Dimensions are nominal

PF Thread Data
Japanese conduit thread conforming to JIS B 0202

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
1/4”	13		1.34
3/8”	16.7	15.0	1.34
1/2”	21.0	18.6	1.81
3/4”	26.4	24.1	1.81
1”	33.3	30.3	2.31
1 1/4”	41.9	39.0	2.31
1 1/2”	47.8	44.8	2.31
2”	59.6	56.7	2.31

NOTE: Dimensions are nominal

NPT Thread Data
US Taper seal pipe thread conforming to ANSI/ASME B1.20.1 - 1983

Thread Size	External Thread Outside Diameter (mm)	Pitch (mm)
3/8”	16.7	
1/2”	21.0	1.81
3/4”	26.4	1.81
1”	33.3	2.21
1 1/4”	41.9	2.21
1 1/2”	47.8	2.21
2”	59.6	2.21

NOTE: Dimensions are nominal

UNEF / UNS Thread Data
American unified thread conforming to BS1580

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
5/8”	15.9	14.7	1.06
3/4”	19.1	17.7	1.27
13/16”	20.6	19.3	1.27
7/8”	22.2	20.9	1.27
15/16”	23.8	22.4	1.27
1”	25.4	24.0	1.27
1 1/8”	28.6	27.0	1.41
1 3/16”	30.2	28.6	1.41
1 1/4”	31.8	30.2	1.41
1 5/16”	33.3	31.8	1.41
1 3/8”	34.9	33.4	1.41
1 7/16”	36.5	35.0	1.41
1 3/4”	44.5	42.9	1.41
2”	50.8	49.3	1.59
2 1/4”	57.2	55.4	1.59

NOTE: Dimensions are nominal

Conformity documents and compliance information

Rohs Statements
Reach Statements
SVHC Statements
Conflict Minerals declaration
Certificates of conformity
Declarations of Conformity

Can be provided on request please contact (details from back page)

Chemical resistance guide

This document serves as a guideline only and compatibility should be verified in the application environment to ensure suitability. Many factors can determine the exact suitability; such as temperature, duration of contact, nature of contact such as submersion and concentration of the chemicals involved.

Resistance guide															
Chemicals	**Metals**						**Plastics & Elastomers**								
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	**Aluminum**	**Carbon Steel**	**Cast/Ductile Iron**	**Nickel Plated Brass**	**303/304 Stainless Steel 1.4301 (V2A)**	**316 Stainless Steel 1.4401 (V4A)**	**PA6 PA66 Polyamide**	**POM Polyacetal**	**PVC Polyvinylchloride**	**TPE-U/TPE-E Polyester**	**PP Polypropylene**	**EPR, EPDM**	**NBR Nitrile**	**CR Polychloroprene**	**TPU Polyurethane**
Acetate Solvents	2	0	0	3	0	3	3	3	0	0	0	2	0	0	0
Acetic Acid	2	0	0	3	0	2	0	0	3	0	2	3	1	1	1
Acetic Acid — 20%	2	0	0	3	2	3	0	1	3	0	2	3	1	2	-
Acetic Acid — 30%	0	-	3	3	3	3	0	2	-	0	2	3	1	2	-
Acetic Acid — 50%	0	-	3	3	3	2	0	2	-	1	2	3	0	1	-
Acetic Acid — 80%	2	0	0	3	0	2	0	0	-	1	3	3	0	1	-
Acetic Acid — Glacial	2	0	0	2	1	3	0	0	3	1	1	2	0	0	-
Acetone	2	3	3	3	3	3	2	2	0	1	0	3	0	0	0
Acetone Cyanohydrin	2	-	2	3	2	-	-	-	-	-	-	0	-	2	-
Acetonitrile (Methyl Cyanide)	3	3	3	3	3	3	3	3	0	-	0	3	0	0	2
Acetophenone	2	3	3	3	3	2	3	-	-	-	1	2	0	0	-
Acrylonitrile	2	3	3	3	3	3	2	-	3	0	2	0	0	0	0
Adipic Acid	2	3	2	3	2	2	3	2	3	0	2	3	3	0	-
Alcohol	3	3	3	3	3	3	0	2	3	2	2	2	-	-	-
Alcohol: Amyl	2	2	2	3	3	3	3	3	3	3	2	3	2	2	0
Alcohol: Benzyl	2	2	2	3	2	2	0	3	3	0	3	1	0	1	1
Alcohol: Butyl	2	2	2	3	3	3	0	3	3	0	2	3	3	3	0
Alcohol: Diacetone	2	3	2	3	3	3	3	3	2	0	2	2	0	0	2
Alcohol: Ethyl	2	2	2	3	3	3	2	3	3	3	3	3	3	3	0
Alcohol: Hexyl	3	3	3	3	3	3	3	3	3	0	3	1	3	2	0
Alcohol: Isobutyl	2	1	1	3	3	3	2	3	3	2	3	2	1	3	0
Alcohol: Isopropyl	2	3	1	3	2	2	0	3	3	3	3	2	1	2	0
Alcohol: Methyl	2	3	3	3	3	3	2	3	3	2	3	2	3	3	0
Alcohol: Octyl	3	3	3	3	3	3	3	3	3	0	-	3	2	2	0
Alcohol: Propyl	3	3	3	3	3	3	2	3	3	0	3	2	3	3	0
Aluminum Chloride	0	0	0	0	0	1	0	2	3	1	3	3	3	3	2
Ammonia 10%	3	3	3	3	3	3	3	0	3	-	3	3	-	3	-
Ammonia Anhydrous	3	3	3	3	3	3	2	0	3	0	3	3	-	2	-
Ammonia Liquids	0	-	3	3	3	-	-	0	0	-	3	3	2	3	2

Chemical resistance guide

Resistance guide															
Chemicals	**Metals**						**Plastics & Elastomers**								
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	**Aluminum**	**Carbon Steel**	**Cast/Ductile Iron**	**Nickel Plated Brass**	**303/304 Stainless Steel 1.4301 (V2A)**	**316 Stainless Steel 1.4401 (V4A)**	**PA6 PA66 Polyamide**	**POM Polyacetal**	**PVC Polyvinylchloride**	**TPE-U/TPE-E Polyester**	**PP Polypropylene**	**EPR, EPDM**	**NBR Nitrile**	**CR Polychloroprene**	**TPU Polyurethane**
Ammonia Liquors	3	-	3	3	3	-	-	-	0	-	-	-	-	3	-
Aniline	1	1	1	3	3	2	1	2	2	0	1	0	0	0	0
ASTM no.1	3	-	3	3	3	-	-	3	3	3	-	0	3	2	2
ASTM no.2	3	-	3	3	3	-	-	3	2	3	-	0	3	2	0
ASTM no.3	3	-	3	3	3	-	-	3	-	3	-	0	3	1	0
ASTM no.4	3	-	3	3	3	-	-	3	-	0	-	0	2	0	0
ASTM no.5	3	-	3	3	3	-	-	-	-	3	-	0	3	2	0
ASTM no.6	3	-	3	3	3	-	-	-	-	3	-	0	0	0	0
ASTM no.7	3	-	3	3	3	-	-	-	-	3	-	0	2	0	0
Benzaldehyde	2	3	3	3	2	2	0	3	-	2	0	2	0	0	0
Benzene	2	3	2	3	2	2	3	3	2	1	0	0	0	0	0
Blood	-	-	-	3	3	3	-	-	3	-	3	-	-	-	-
Brake Fluid (Mineral)	3	3	3	3	3	3	2	3	0	0	0	3	1	2	3
Carbon Tetrachloride	0	0	0	3	2	2	0	2	0	0	0	0	1	0	3
Caustic	0	-	-	3	3	3	-	-	-	0	-	-	-	-	-
Chlorinated Water	0	-	-	3	2	2	0	0	0	0	1	0	1	1	0
Chlorine Water	0	-	-	3	1	1	1	0	0	-	0	1	-	0	-
Chloroform	0	2	0	3	3	3	0	2	0	0	0	0	0	0	0
Citric Acid	1	0	0	3	2	3	0	2	3	3	2	3	-	3	-
Copper Sulfate	-	-	-	3	3	3	1	3	3	2	3	3	-	3	-
Creosols	2	-	1	3	3	-	-	2	2	-	0	0	0	0	0
Cresols	2	1	1	3	3	3	0	0	3	0	0	0	-	0	-
Crude Oil	3	-	2	3	3	3	3	0	-	2	0	0	2	1	0
Diesel Fuel	3	3	3	3	3	3	3	3	2	2	2	0	-	0	-
Diethylamine	2	2	0	3	2	2	2	2	-	-	1	2	-	2	-
Dyes	2	-	2	3	3	3	3	1	-	-	-	-	-	1	-
Ethane	3	3	3	3	3	3	0	3		-	0	0	3	1	2
Ethanol (Ethyl Alcohol)	2	2	2	3	3	3	1	3		3	3	3	3	3	0
Ethanolamine	2	3	2	3	3	3	3	0	-	-	0	2	2	1	1
Ether	2	1	1	3	3	3	3	3		-	0	1	-	0	-
Ethyl Ether	1	1	1	2	2	2	2	2	0	-	0	0	0	0	0
Ethyl Formate	1	-	3	2	2	2	-	3	0	0	-	1	0	2	-
Ethylene Glycol	2	2	2	3	2	2	2	2	3	1	3	3	3	3	2
Freon 32	0	3	3	3	3	3	-	3		-	-	3	3	3	-
Gasoline	3	3	3	3	3	3	-	3	2	3	0	0	3	0	1
Gelatin	2	3	0	3	3	3	2	2		2	3	3	3	3	0
Glycol	2	-	2	2	2	2	1	2		-	3	3	-	3	-
Grapefruit Oil	-	0	0	3	3	3	-	-	3	-	-	-	3	0	-
Grease	3	3	3	3	3	3	-	0	3	-	-	0	-	0	-
Heavy Water	3	-	1	2	3	-	-	-		2	-	3	3	-	0
Hexane	3	3	3	3	3	3	2	1	2	3	1	0	3	0	2
Hexanol	3	-	3	3	3	-	-	3	-	0	3	3	3	2	0
Hexanol Tertiary	3	3	3	3	3	3	3	3	-	-	2	-	-	-	-
Hexyl Alchol	3	-	-	2	3	-	-	-	-	-	3	-	-	2	-
Hexyl Alcohol	3	-	3	2	3	-	-	-		0	-	1	2	2	0
Hexylene Glycol (Brake Fluid)	3	-	3	2	3	-	-	-	-	0	-	1	3	3	-
Hydraulic Oil (Petro)	3	3	3	3	3	3	3	2		-	0	0	-	3	-
Hydraulic Oil (Petroleum Base)	3	3	3	3	3	3	3	1		3	0	0	-	2	-
Hydraulic Oil (Petroleum)	3	-	3	3	3	3	3	2		3	0	0	3	2	-
Hydraulic Oil (Synthetic)	3	3	3	3	3	3	3	2		3	0	0	0	0	2

Chemical resistance guide

Resistance guide															
Chemicals	**Metals**						**Plastics & Elastomers**								
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	**Aluminum**	**Carbon Steel**	**Cast/Ductile Iron**	**Nickel Plated Brass**	**303/304 Stainless Steel 1.4301 (V2A)**	**316 Stainless Steel 1.4401 (V4A)**	**PA6 PA66 Polyamide**	**POM Polyacetal**	**PVC Polyvinylchloride**	**TPE-U/TPE-E Polyester**	**PP Polypropylene**	**EPR, EPDM**	**NBR Nitrile**	**CR Polychloroprene**	**TPU Polyurethane**
Hydrazine	2	0	0	3	3	3	-	2	-	0	0	3	2	1	0
Hydrochloric Acid - 10%	0	0	0	3	0	0	0	0	3	0	3	3	-	0	-
Hydrochloric Acid - 37%	0	0	0	3	0	0	0	0	3	0	1	1	2	0	0
Hydrogen Peroxide - 30%	3	2	0	3	2	2	0	0	3	0	2	2	-	0	-
Hydrogen Peroxide - 90%	3	-	0	2	3	-	0	0	3	0	3	1	-	0	-
Isopropyl Alcohol	3	3	3	3	3	3	0	3	-	3	3	2	3	2	0
Isopropyl Amine	-	-	3	3	3	-	-	-	-	-	-	-	0	-	-
Isopropyl Chloride	0	-	3	3	3	3	-	3	-	-	0	0	0	0	0
Isopropyl Ether	2	3	3	3	3	3	3	0	-	-	0	0	2	0	2
Jet Fuel (JP1 to JP6)	3	3	3	3	3	3	1	3	-	-	0	0	-	0	-
Kerosene	3	3	3	3	3	3	3	3	3	1	0	0	3	0	2
Ketchup	-	-	-	3	3	3	3	3	3	-	-	3	-	3	-
Ketones	2	3	3	3	3	3	3	0	0	0	0	3	0	0	0
Lacquers	3	1	1	2	3	3	3	0	0	0	0	0	0	0	0
Lactic Acid	0	0	0	3	2	2	0	1	-	0	2	3	-	1	-
Lactic Acid - 5% Solution	1	-	0	3	3	-	-	3	-	0	3	3	3	3	2
Lard	3	3	3	3	2	3	3	2	-	2	2	0	-	0	-
Lard Oil (Cold)	3	3	3	3	3	3	-	3	-	-	-	0	-	2	-
Lard Oil (Hot)	3	3	3	3	3	3	-	3	-	2	2	0	3	2	1
Latex	3	-	-	3	3	3	3	1	-	-	3	3	3	2	0
Lubricants	3	3	3	3	3	3	3	3	3	3	2	0	-	0	-
Lubricants (Petroleum)	1	-	3	3	3	3	3	3	3	3	0	0	3	2	2
Lubricating Oil	3	3	3	3	3	3	3	3	3	3	3	0	-	2	-
Methanol	2	3	3	3	3	3	2	3		2	3	3	3	3	0
Methyl Acetate	2	2	2	2	3	2	3	2	0	1	0	1	0	0	0
Methyl Acetone	3	3	3	2	3	3	3	0		-	0	3	1	0	-
Methyl Bromide	0	3	3	3	3	3	0	0	0	0	0	0	2	0	0
Methyl Ethyl Ketone (MEK)	2	3	3	3	3	3	1	1	0	2	0	3	0	0	0
Methyl Formate	3	-	2	2	2	2	-	3	-	-	-	1	0	2	0
Nitric Acid - 10%	0	0	0	1	3	3	0	0	3	0	0	2	-	2	-
Nitric Acid - 70%	3	-	0	1	3	3	0	0	0	0	0	0	-	0	-
Olive Oil	3	3	3	3	2	3	3	3		-	3	0	3	0	3
Ozone	2	0	1	3	2	2	0	0		1	0	3	0	1	3
Paint Thinner, Duco	0	2	2	3	2	3	3	3	0	-	0	0	0	0	0
Paraffin	3	3	3	3	3	3	3	3	3	-	3	0	3	2	3
Petroleum	0	-	1	3	3	3	3	2	2	2	2	0	-	2	-
Petroleum Ether	2	-	2	3	3	3	3	3	2	-	3	0	3	0	2
Phenol	2	-	0	3	3	-	-	3	2	0	1	-	0	0	0
Phenol (10%)	3	0	0	3	2	2	0	2	2	-	2	2	-	0	-
Phosphoric Acid - 10%	0	-	0	3	3	-	0	-	3	-	3	3	-	2	-
Phosphoric Acid - 20%	0	-	0	3	3	2	0	0	3	-	3	3	2	2	1
Salt Brine	1	0	0	1	2	0	3	2	2	3	3	3	-	3	-
Salt Water	0	0	0	1	1	2	3	3	2	3	3	3	3	2	0
Sea Water	0	0	0	1	1	1	3	3	3	3	3	3	3	2	3
Sea Water (Brine)	3	-	1	1	3	-	3	3	3	-	3	3	-	2	-
Sewage	0	0	0	2	3	3	-	3		2	3	1	3	2	0
Silicone	2	3	3	3	3	3	3	3		3	3	3	-	3	-
Silicone Grease	-	-	-	3	-	-	-	3		3	-	3	3	3	3
Silicone Oil	2	3	2	3	3	3	3	3		2	3	3	3	0	3
Silver Nitrate	0	1	0	3	2	2	3	3		0	2	3	2	3	3

Chemical resistance guide

Resistance guide															
Chemicals	**Metals**						**Plastics & Elastomers**								
3 = Excellent **2 = Good** **1 = Fair to poor** **0 = Not recommended** **- = No data**	**Aluminum**	**Carbon Steel**	**Cast/Ductile Iron**	**Nickel Plated Brass**	**303/304 Stainless Steel 1.4301 (V2A)**	**316 Stainless Steel 1.4401 (V4A)**	**PA6 PA66 Polyamide**	**POM Polyacetal**	**PVC Polyvinylchloride**	**TPE-U/TPE-E Polyester**	**PP Polypropylene**	**EPR, EPDM**	**NBR Nitrile**	**CR Polychloroprene**	**TPU Polyurethane**
Skydol 7000	-	-	-	3	3	-	-	3		0	-	3	0	0	0
Skydrol	-	-	-	3	-	-	1	-		2	-	3	-	0	-
Skydrol 500	-	-	-	3	3	-	1	3		1	-	3	0	0	0
Skydrol Hydraulic Fluid	-	-	-	3	3	-	1	-		-	-	3	-	0	-
Sodium Chloride	1	0	0	1	1	1	3	2		3	3	3	3	3	3
Sodium Hydroxide	0	-	2	3	3	-	1	0	2	-	3	3	-	2	-
Sodium Hydroxide (< 10%) (Caustic Soda)	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-
Sodium Hydroxide (< 50%) (Caustic Soda)	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-
Sodium Hydroxide (20%)	0	3	2	3	2	2	3	3	3	2	3	2	3	2	2
Sodium Hydroxide (50%)	0	0	0	3	2	2	3	3	3	1	3	2	0	1	2
Sulfur Dioxide	0	-	0	0	0	3	1	0	0	0	3	2	0	2	1
Sulfur Dioxide (dry)	2	3	3	0	0	3	2	2	3	1	3	3	-	0	-
Sulfur Dioxide Gas Dry	0	-	2	0	3	3	2	2	3	0	1	3	-	0	-
Sulfuric Acid - Concentrated	-	-	-	0	-	-	0	0	0	0	2	0	-	0	-
Sulfuric Acid (<10%)	0	1	0	0	0	1	1	0	2	3	3	3	0	0	0
Sulfuric Acid (10-75%)	0	0	0	0	0	0	0	0	1	-	3	2	-	0	-
Sulfuric Acid (75-100%)	0	0	0	0	1	0	0	-	0	1	1	2	-	0	-
Sulfuric Acid (hot concentrated)	0	0	0	0	0	1	0	-	0	-	0	0	-	0	-
Syrup	3	-	-	3	3	3	-	3	3	-	3	3	3	2	-
Toluene	3	-	3	3	-	3	3	-	0	-	0	-	-	0	-
Transformer Oil	3	-	2	3	3	3	3	1	-	-	0	0	3	1	3
Trichlorethylene	0	-	1	3	-	3	3	-	0	-	2	-	-	0	-
Turbine Oil	3	3	3	3	3	3	3	3	-	-	2	0	2	0	3
Turpentine	3	-	2	3	3	3	2	3	2	2	0	0	3	0	0
Unleaded Gasoline	3	-	3	3	-	3	3	-	-	-	0	-	-	0	-
Urea	2	-	2	2	2	2	1	3	3	2	3	3	2	2	2
Urine	2	3	2	3	3	3	2	1	-	-	3	3	3	0	-
Vegetable Oil	2	2	2	3	3	3	3	3	-	-	0	0	3	0	3
Vinyl Acetate	2	2	1	3	2	2	-	-	0	-	0	2	0	0	0
Water	3	0	0	3	3	3	-	3	3	3	2	3	-	3	-
White Spirit	-	-	-	3	-	3	3	3		3	3	-	-	-	-
Zinc Chloride	0	0	0	3	0	0	1	0	3	2	3	3	3	2	3

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