CATALOGUE

Cable glands
for global applications



ABB provides renowned cable protection solutions, including conduit systems and cable glands for use in many industries worldwide.

Our products deliver significant design and safety benefits and are ideal for many industrial, commercial and hazardous area applications.

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Everything you need, anywhere in the world... a one-stop solution for high quality cable glands

Our brands are now united under one ABB name, bringing you ease of use and selection – No matter how challenging your environment may be.

Through one easy chart, you can now find high-specification protective cable glands that are suitable for specific harsh conditions, including high or extreme temperature ranges, oil exposure, UV exposure, food & beverage use or highly corrosive environments. Solutions are also readily available for a broad range of general purpose uses.

Your new simplified buying process offers:

- Online / printed catalog and website
- One point of contact
- Sales process

Certifications

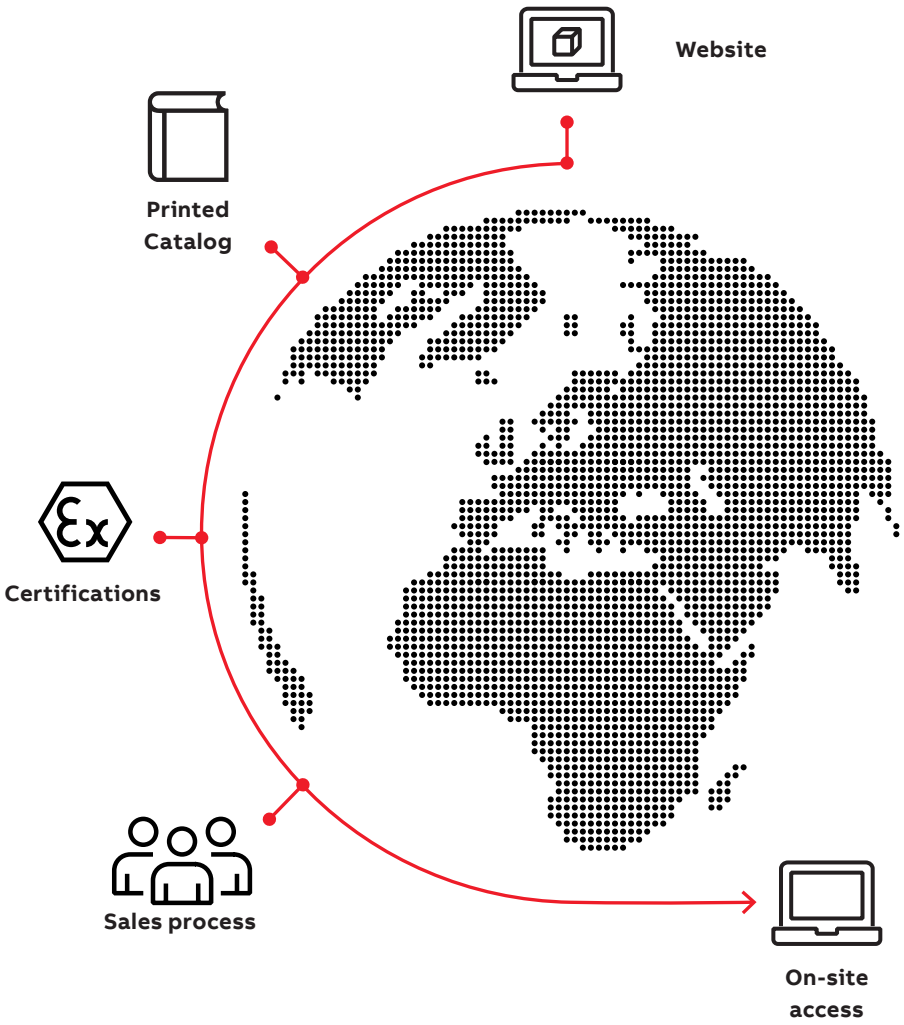
Designed to meet and exceed global specifications for IEC and NEC wiring standards, ABB cable glands also meet and exceed international and North American certification requirements including ATEX, IECEx, UL and CSA, as well as regional and various marine certifications.

Available approvals and certifications:

EVERYTHING YOU NEED IN

One

One-stop solution for high quality cable glands



COMPLETE CABLE PROTECTION PORTFOLIO

The complete ABB line of cable glands and fittings is complemented by the worldwide availability of ABB's comprehensive cable protection portfolio. ABB's offering is amongst the world's largest range of electrical equipment for hazardous, explosive, classified and industrial environments.



Vertical market solutions



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01



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01 Food & beverage processing industry
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02 Rail infrastructure
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03 Marine

Food & beverage processing industry
At ABB, we understand the challenges you face in the food and beverage processing industry today. We're dedicated to providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, cost, quality, flexibility, food and personnel safety and regulatory challenges across the production cycle.

Rail infrastructure
This range of cable glands can be installed anywhere where low smoke and toxicity combined with wide temperature characteristics, versatile cable clamping and resistance to oils and chemicals may be required.

Designed to meet the latest European safety standard EN45545 and the European Technical Specification for Interoperability (TSI), these cable glands achieve the highest HL3 fire performance rating for both interior and exterior locations, making them suitable for rail rolling stock and infrastructure usage.



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Marine
Safety and reliability are vital considerations within one of the harshest operational environments to be found. Products specified and installed within this sector have to face the particular damaging effects from being in exposed areas subject to salt spray conditions. Vibration and temperature extremes add to the challenge.

ABB offers a broad range of solutions that are resistant to abrasion, impact, corrosion and chemical exposure, with long service life and low fire hazard properties.



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04 Oil and gas industry
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05 Chemical industry
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06 Power generation

Oil and gas industry
Oil and gas customers rely on ABB's application expertise, which comes from decades of experience. Our range of hazardous location cable glands are designed, manufactured and independently certified to suit your application need anywhere in the world.

Chemical industry
In order to be profitable running special batches or continuous commodity compounds, you need reliable, robust and cost-effective equipment. That’s why we continually invest in R&D for new and improved products, as well as furthering out expertise in the industry



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Power generation
The power generation industry is currently undergoing a transformation. New and emerging technological developments, support cleaner and more efficient energy generation. ABB is leading the way with high-quality, innovative electrical systems and devices that perform optimally with minimal product life cycle costs.

Industrial
Cable glands

Supported by global certifications and our commitment to quality and research, ABB offers industrial cable glands for a broad array of applications anywhere you need them.

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01 NCG Series
—
02 BCG Series
—
03 Quick-Connect™

With varieties designed to withstand wet or dry locations, indoor or outdoor use and corrosive conditions, ABB offers a general purpose industrial gland to meet your need. Backed by thorough testing, ABB glands meet or exceed regulatory and certification standards, no matter where on the globe you need to use them.

Cable glands provide sealed entry into enclosures, motors, panels or any other device, limiting the ingress of water and dust. Regardless of the configuration, ABB's high quality standards help to extend system life and minimize downtime.

Available in stainless steel, nickel-plated brass, aluminum or nylon, our cable glands are available in a variety of thread types, shapes and hole configurations. Self-grounding varieties are available, along with a full array of accessories.



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INDUSTRIAL CABLE GLANDS

ABB industrial cable glands can be installed anywhere. Supported by global certifications and type approvals, we have a solution for most applications.



Cable glands for industrial applications

Selection guide

Selection guide



Type	NPG	NCG	NCGS	NSG	BCG	SCG	BEM	MSG	SSG
General									
Commercial Building	•	•	•	–	–	–	–	–	–
Residential Building	•	•	–	–	–	–	–	–	–
Industrial MRO	–	•	–	–	•	–	–	•	–
Low Ingress	–	•	–	–	•	–	–	–	–
OEM									
General Applications	•	•	–	•	•	–	–	•	–
Industrial Machinery	–	–	–	–	–	–	–	•	–
Commerical Machinery	–	–	–	–	–	–	–	•	–
Panel Building	•	•	–	–	•	–	•	•	–
Lighting	–	•	–	•	–	–	–	–	–
Rail									
Traction - Exterior	–	–	–	–	•	•	–	•	•
Traction - Interior	–	•	–	–	–	–	–	–	–
Infrastructure - Exterior	–	–	–	–	•	•	–	•	•
Infrastructure - Interior	–	•	–	–	–	–	–	–	–
Automation									
Robotics	•	•	–	–	•	–	•	•	•
Control systems	•	–	•	–	•	–	•	–	–
Enclosures and Motors	•	•	–	–	•	–	•	–	–
Marine									
General Applications	–	•	–	–	–	•	–	–	•
Outdoor Applications	–	•	–	–	–	•	–	–	•
Passenger/Crew Areas	–	•	–	–	–	•	–	–	–
Oil and Gas									
IEC standards	–	–	–	–	–	–	–	–	–
NEC Standards	–	–	–	–	–	–	–	–	–
Other									
Solar	•	•	•	–	•	–	•	•	–
Food and Beverage	–	–	–	–	–	–	–	–	–
Chemical Plants	–	–	–	–	–	•	–	–	•
Data Centres	–	–	–	–	•	–	•	–	–
Waste Water Management	–	–	–	–	–	•	–	–	•
Page No.	**12**	**13**	**17**	**20**	**25**	**30**	**35**	**37**	**46**








		Rail Specific applications			Food & Beverage applications
ASG	**RNCG**	**RBCG**	**RBSG**	**FSCG**	**FSEM**
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47	**52**	**54**	**56**	**58**	**59**

NPG Quick-Connect™
Cable glands



Quick-Connect™ - NPG Series - Nylon cable gland

Approvals & certifications	Conformity Conforms to:
	EN 62444
	UL514B (see table for details)
	CSA C22.2 No 18.3

Temperature range
Normal Use: –20°C to +100°C (–4°F to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

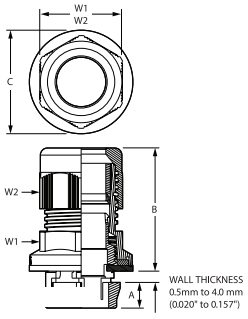
IP Rating	Material
IP66	Halogen free nylon (PA6) construction
IP68 (5-Bar 30 mins)	Available in black, grey, and light grey
	Chloroprene seals

ABB's latest cable gland offering, the NPG Quick-Connect™, allows for fast and effective fitting without access to the inside of an enclosure, greatly speeding installation. The speed and ease of installation makes the NPG ideal for panel builders and volume installers of all types.

NPG Quick-Connect™ is a single-piece, corrosion resistant nylon gland suitable for non-armored, portable and tray cable types. When installed, the NPG achieves ingress protection of IP66 or IP68 (5 bar 30 mins).

Under normal use, NPG Quick-Connect™ glands are rated to perform from -20°C to 100°C (-4°F to 212°F), but in shorter bursts can withstand -30°C to 150°C (-22°F to 302°F).

Dimensions

Metric thread	Part no.	Metric thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Hole size Min. (mm/in)	Hole size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NPG-M161x (cURus)	M16	5.0	10.0	16.2	16.4	9.0	42.5	26.5	22.0	22.0
			0.197	0.394	0.638	0.646	0.354	1.673	1.043	0.866	0.866
	NPG-M201x (cURus)	M20	6.0	12.0	20.2	20.4	9.0	41.5	30.3	24.0	24.0
			0.236	0.472	0.795	0.803	0.354	1.634	1.193	0.945	0.945
	NPG-M202x (cURus)	M20	7.0	13.0	20.2	20.4	9.0	41.5	30.3	25.0	25.0
			0.276	0.512	0.795	0.803	0.354	1.634	1.193	0.984	0.984
	NPG-M251x (cURus)	M25	11.0	17.0	25.2	25.4	9.0	43.5	36.3	29.0	29.0
			0.433	0.669	0.992	1.000	0.354	1.713	1.429	1.142	1.142
	NPG-M321x (cURus)	M32	15.0	21.0	32.2	32.4	9.0	49.5	43.2	36.0	36.0
			0.591	0.827	1.268	1.276	0.354	1.949	1.701	1.417	1.417

NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Hole size Min. (mm/in)	Hole size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NPG-0381x	3/8"	5.0	10.0	17.65	18.85	10.0	41.2	26.5	22.0	22.0
			0.197	0.394	0.695	0.742	0.394	1.673	1.043	0.866	0.866
	NPG-0501x	1/2"	6.0	12.0	21.84	23.01	10.0	39.2	30.5	24.0	24.0
			0.236	0.472	0.860	0.906	0.394	1.543	1.201	0.945	0.945
	NPG-0502x	1/2"	10.0	14.0	21.84	23.01	10.0	39.8	30.5	27.0	27.0
			0.394	0.551	0.860	0.906	0.394	1.689	1.201	1.063	1.063
	NPG-0751x	3/4"	13.0	18.0	27.78	28.98	10.0	41.9	39.0	33.0	33.0
			0.512	0.709	1.094	1.141	0.394	1.650	1.535	1.299	1.299
	NPG-1001x	1"	18.0	25.0	34.51	35.71	10.0	50.1	47.5	42.0	42.0
			0.709	0.984	1.359	1.406	1.972	1.972	1.870	1.654	1.654

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for general purpose use

NCG Series



NCG Series - Nylon cable gland

Features and benefits:

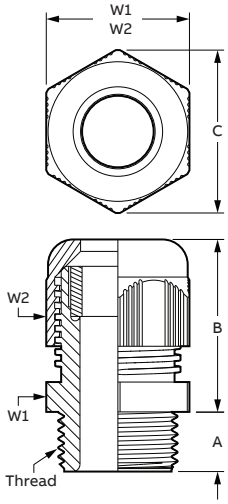
- Low profile cable glands
- Wide cable clamping range
- Corrosion resistant

Approvals & certifications	Conformity Conforms to:
	EN 62444
	UL514B (see table for details)
	CSA C22.2 No 18.3

Temperature range
Normal Use: –20°C to +100°C (–4°F to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

IP Rating	Material
IP66	Halogen free nylon construction
IP68 (5-Bar 30 mins)	Chloroprene seals
NEMA 4	Available in black, grey and light grey

DImensions



Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCG-M121x	M12x1.5	2.0	5.0	8.0	23.0	16.9	15.0	15.0
			0.079	0.197	0.315	0.906	0.665	0.591	0.591
	NCG-M122x (cURus)	M12x1.5	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	NCG-M161x	M16x1.5	2.0	6.0	8.0	26.5	21.9	19.0	19.0
			0.079	0.236	0.315	1.043	0.862	0.748	0.748
	NCG-M161x-L	M16x1.5	2.0	6.0	15.0	26.5	21.9	19.0	19.0
			0.079	0.236	0.591	1.043	0.862	0.748	0.748
	NCG-M162x (cURus)	M16x1.5	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	NCG-M162x-L	M16x1.5	4.0	8.0	15.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.591	1.043	0.862	0.748	0.748
	NCG-M163x (cURus)	M16x1.5	5.0	10.0	10.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.394	1.181	0.984	0.866	0.866
	NCG-M163x-L (cURus)	M16x1.5	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.157	0.315	0.591	1.043	0.862	0.748	0.748
	NCG-M201x	M20x1.5	5.0	9.0	10.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.394	1.043	1.063	0.945	0.945
	NCG-M201x-L	M20x1.5	5.0	9.0	15.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.591	1.043	1.063	0.945	0.945

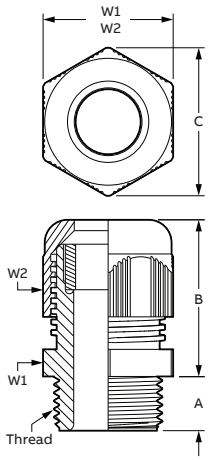
Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for general purpose use

NCG Series

Dimensions





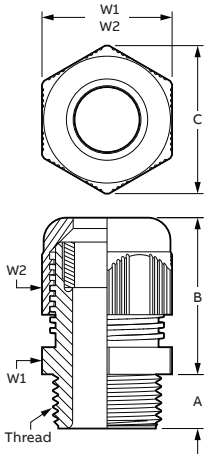
Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCG-M202x (cULus)	M20x1.5	6.0	12.0	10.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.181	1.063	0.945	0.945
	NCG-M202x-L (cULus)	M20x1.5	6.0	12.0	15.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.591	1.181	1.063	0.945	0.945
	NCG-M203x (cULus)	M20x1.5	10.0	14.0	10.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.394	1.319	1.22	1.063	1.063
	NCG-M203x-L (cULus)	M20x1.5	10.0	14.0	15.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.591	1.319	1.22	1.063	1.063
	NCG-M251x	M25x1.5	9.0	16.0	10.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.394	1.496	1.496	1.299	1.299
	NCG-M251x-L	M25x1.5	9.0	16.0	15.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.591	1.496	1.496	1.299	1.299
	NCG-M252x (cULus)	M25x1.5	11.0	17.0	8.0	38.0	32.5	29.0	29.0
			0.433	0.669	0.315	1.496	1.28	1.142	1.142
	NCG-M252x-L	M25x1.5	11.0	17.0	15.0	36.0	32.5	29.0	29.0
			0.433	0.669	0.591	1.417	1.28	1.142	1.142
	NCG-M253x (cULus)	M25x1.5	13.0	18.0	10.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.394	1.496	1.496	1.299	1.299
	NCG-M253x-L	M25x1.5	13.0	18.0	15.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.591	1.496	1.496	1.299	1.299
	NCG-M321x	M32x1.5	11.0	15.0	10.0	42.5	41.0	36.0	36.0
			0.433	0.591	0.394	1.673	1.614	1.417	1.417
	NCG-M321x-L	M32x1.5	11.0	15.0	15.0	42.5	36.0	36.0	36.0
			0.433	0.591	0.591	1.673	1.417	1.417	1.417
	NCG-M322x (cULus)	M32x1.5	15.0	21.0	10.0	42.5	41.0	36.0	36.0
			0.591	0.827	0.394	1.673	1.614	1.417	1.417
	NCG-M322x-L	M32x1.5	15.0	21.0	15.0	42.5	41.0	36.0	36.0
			0.591	0.827	0.591	1.673	1.614	1.417	1.417
	NCG-M323x (cULus)	M32x1.5	18.0	25.0	15.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.591	1.654	1.862	1.654	1.654
	NCG-M401x	M40x1.5	16.0	23.0	10.0	47.5	52.4	46.0	46.0
			0.63	0.906	0.394	1.870	2.063	1.811	1.811
	NCG-M401x-L	M40x1.5	16.0	23.0	18.0	47.5	52.4	46.0	46.0
			0.63	0.906	0.709	1.870	2.063	1.811	1.811
	NCG-M402x (cULus)	M40x1.5	19.0	28.0	10.0	47.5	52.4	46.0	46.0
			0.748	1.102	0.394	1.870	2.063	1.811	1.811
	NCG-M402x-L	M40x1.5	19.0	28.0	18.0	47.5	52.4	46.0	46.0
			0.748	1.102	0.709	1.870	2.063	1.811	1.811
	NCG-M403x (cULus)	M40x1.5	22.0	32.0	18.0	52.0	60.0	53.0	53.0
			0.866	1.26	0.709	2.047	2.362	2.087	2.087
	NCG-M501x	M50x1.5	25.0	31.0	18.0	53.5	67.8	60.0	60.0
			0.984	1.22	0.709	2.106	2.669	2.362	2.362
	NCG-M502x (cULus)	M50x1.5	30.0	38.0	18.0	53.5	67.8	60.0	60.0
			1.181	1.496	0.709	2.106	2.669	2.362	2.362
	NCG-M631x	M63x1.5	29.0	35.0	18.0	53.0	72.9	65.0	65.0
			1.142	1.378	0.709	2.087	2.870	2.559	2.559
	NCG-M632x (cULus)	M63x1.5	34.0	44.0	18.0	53.0	72.9	65.0	65.0
			1.339	1.732	0.709	2.087	2.87	2.559	2.559
	NCG-M751x (cULus)	M75x1.5	48.0	55.0	25.0	55.0	89.0	75.0	80.0
			1.89	2.165	0.984	2.165	3.504	2.953	3.15

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for industrial applications

NCG Series

Dimensions



NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCG-0381x	3/8"	3.0	7.0	15.0	30.0	25.0	22.0	22.0
			0.118	0.276	0.591	1.181	0.984	0.866	0.866
	NCG-0382x (cURus)	3/8"	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.591	1.181	0.984	0.866	0.866
	NCG-0501x	1/2"	5.0	9.0	15.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.591	1.181	1.063	0.945	0.945
	NCG-0502x (cULus)	1/2“	6.0	12.0	15.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.591	1.181	1.063	0.945	0.945
	NCG-0503x (cULus)	1/2"	10.0	14.0	11.0	33.5	30.9	27.0	27.0
			0.394	0.551	0.433	1.319	1.217	1.063	1.063
	NCG-0504x	1/2"	9.0	16.0	15.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.591	1.496	1.496	1.299	1.299
	NCG-0505x	1/2"	13.0	18.0	15.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.591	1.496	1.496	1.299	1.299
	NCG-0751x	3/4"	9.0	16.0	15.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.591	1.496	1.496	1.299	1.299
	NCG-0752x (cULus)	3/4"	13.0	18.0	15.0	38.0	38.0	33.0	33.0
			0.512.0	0.709	0.591	1.496	1.496	1.299	1.299
	NCG-1001x	1"	12.0	20.0	18.0	42.0	47.3	42.0	42.0
			0.472	0.787	0.709	1.654	1.862	1.654	1.654
	NCG-1002x (cULus)	1"	18.0	25.0	18.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.709	1.654	1.862	1.654	1.654

Dimensions



PG thread	Part no.	PG thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCG-PG71x (cURus)	PG07	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	NCG-PG91x (cURus)	PG09	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	NCG-PG111x	PG11	3.0	7.0	8.0	29.0	25.0	22.0	22.0
			0.118	0.276	0.315	1.142	0.984	0.866	0.866
	NCG-PG112x (cURus)	PG11	5.0	10.0	8.0	29.0	25.0	22.0	22.0
			0.197	0.394	0.315	1.142	0.984	0.866	0.866
	NCG-PG131x (cULus)	PG13	6.0	12.0	10.0	29.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.142	1.063	0.945	0.945
	NCG-PG161x (cULus)	PG16	10.0	14.0	10.0	33.5	30.9	27.0	27.0
			0.394	0.551	0.394	1.319	1.217	1.063	1.063
	NCG-PG211x (cULus)	PG21	13.0	18.0	11.0	37.0	38.0	33.0	33.0
			0.512	0.709	0.433	1.457	1.496	1.299	1.299
	NCG-PG291x (cULus)	PG29	18.0	25.0	11.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.433	1.654	1.862	1.654	1.654
	NCG-PG361x (cULus)	PG36	22.0	32.0	13.0	52.0	60.0	53.0	53.0
			0.866	1.26	0.512	2.047	2.362	2.087	2.087
	NCG-PG421x (cULus)	PG42	30.0	38.0	13.0	53.5	67.8	60.0	60.0
			1.181	1.496	0.512	2.106	2.669	2.362	2.362
	NCG-PG481x (cULus)	PG48	34.0	44.0	14.0	53.5	72.9	65.0	65.0
			1.339	1.732	0.551	2.106	2.87	2.559	2.559

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for industrial applications

NCG Series

Dimensions

GAS thread	Part no.	GAS thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCG-G0251x	1/4"	3.0	6.5	10.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.394	0.906	0.665	0.591	0.591
	NCG-G0381x	3/8"	5.0	10.0	11.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.433	1.181	0.984	0.866	0.866
	NCG-G0501x	1/2"	6.0	12.0	10.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.181	1.063	0.945	0.945
	NCG-G0502x	1/2"	10.0	14.0	11.0	30.0	30.9	27.0	27.0
			0.394	0.551	0.433	1.181	1.217	1.063	1.063
	NCG-G0751x	3/4"	13.0	18.0	12.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.472	1.496	1.496	1.299	1.299
	NCG-G1001x	1"	18.0	25.0	13.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.512	1.654	1.862	1.654	1.654

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon strain relief for industrial applications

NCGS Series



Features and benefits:

- Low profile cable glands
- Wide cable clamping range
- Corrosion resistant

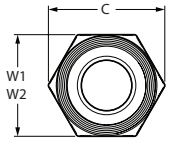
NCGS Series - Nylon strain relief

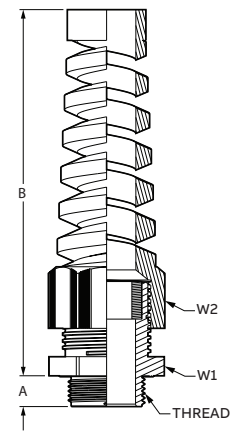
Approvals & certifications	Conformity Conforms to:
	EN 62444
	UL514B

Temperature range
Normal Use: –20°C to +100°C (–4°F to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

IP Rating	Material
IP66	Halogen free nylon construction
IP68 (5-Bar 30 mins)	Chloroprene seals
	Available in black, grey and light grey

DImensions





Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCGS-M121x	M12x1.5	2.0	5.0	8.0	47.5	16.9	15.0	15.0
			0.079	0.197	0.315	1.87	0.665	0.591	0.591
	NCGS-M121x-L	M12x1.5	2.0	5.0	15.0	47.5	16.9	15.0	15.0
			0.079	0.197	0.591	1.87	0.665	0.591	0.591
	NCGS-M122x (cURus)	M12x1.5	3.0	6.5	8.0	47.5	16.9	15.0	15.0
			0.118	0.256	0.315	1.87	0.665	0.591	0.591
	NCGS-M122x-L (cURus)	M12x1.5	3.0	6.5	15.0	47.5	16.9	15.0	15.0
			0.118	0.256	0.591	1.87	0.665	0.591	0.591
	NCGS-M161x	M16x1.5	3.0	7.0	10.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.394	3.209	0.984	0.866	0.866
	NCGS-M161x-L	M16x1.5	3.0	7.0	15.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.591	3.209	0.984	0.866	0.866
	NCGS-M162x (cURus)	M16x1.5	5.0	10.0	10.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.394	3.209	0.984	0.866	0.866
	NCGS-M162x-L	M16x1.5	5.0	10.0	15.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.591	3.209	0.984	0.866	0.866
	NCGS-M201x	M20x1.5	5.0	9.0	10.0	94.0	27.0	24.0	24.0
			0.197	0.354	0.394	3.701	1.063	0.945	0.945
	NCGS-M201x-L	M20x1.5	5.0	9.0	15.0	94.0	27.0	24.0	24.0
			0.197	0.354	0.591	3.701	1.063	0.945	0.945

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon strain relief for industrial applications

NCGS Series

Dimensions

			Cable range		Nominal dimensions (mm/in)				
Metric thread	Part no.	Metric thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-M202x (cULus)	M20x1.5	6.0	12.0	10.0	94.0	27.0	24.0	24.0
			0.236	0.472	0.394	3.701	1.063	0.945	0.945
	NCGS-M202x-L	M20x1.5	6.0	12.0	15.0	94.0	27.0	24.0	24.0
			0.236	0.472	0.591	3.701	1.063	0.945	0.945
	NCGS-M203x (cULus)	M20x1.5	10.0	14.0	10.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.394	4.173	1.22	1.063	1.063
	NCGS-M203x-L	M20x1.5	10.0	14.0	15.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.591	4.173	1.22	1.063	1.063
	NCGS-M251x	M25x1.5	9.0	16.0	10.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.394	4.626	1.496	1.299	1.299
	NCGS-M251x-L	M25x1.5	9.0	16.0	15.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.591	4.626	1.496	1.299	1.299
	NCGS-M252x (cULus)	M25x1.5	13.0	18.0	10.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.394	4.626	1.496	1.299	1.299
	NCGS-M252x-L	M25x1.5	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299

Dimensions

			Cable range		Nominal dimensions (mm/in)				
NPT thread	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-0381x	3/8"	3.0	7.0	15.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.591	3.209	0.984	0.866	0.866
	NCGS-0382x (cURus)	3/8"	5.0	10.0	15.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.591	3.209	0.984	0.866	0.866
	NCGS-0501x	1/2"	5.0	9.0	15.0	93.0	27.0	24.0	24.0
			0.197	0.354	0.591	3.661	1.063	0.945	0.945
	NCGS-0502x (cULus)	1/2"	6.0	12.0	15.0	93.0	27.0	24.0	24.0
			0.236	0.472	0.591	3.661	1.063	0.945	0.945
	NCGS-0503x (cULus)	1/2"	10.0	14.0	15.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.591	4.173	1.22	1.063	1.063
	NCGS-0504x	1/2"	9.0	16.0	15.0	117.9	38.0	33.0	33.0
			0.354	0.63	0.591	4.642	1.496	1.299	1.299
	NCGS-0505x	1/2"	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299
	NCGS-0751x	3/4"	9.0	16.0	15.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.591	4.626	1.496	1.299	1.299
	NCGS-0752x (cULus)	3/4"	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

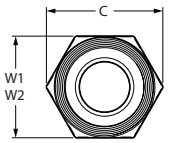
Nylon strain relief for industrial applications

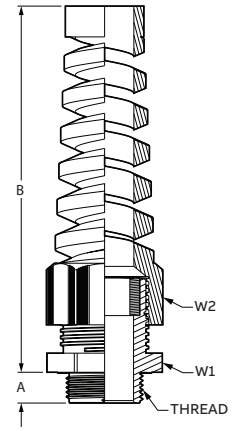
NCGS Series

Dimensions

PG thread	Part no.	PG thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	NCGS-PG71x (cURus)	PG07	3.0	6.5	8.0	57.0	16.9	15.0	15.0
			0.118	0.255	0.315	2.244	0.665	0.591	0.591
	NCGS-PG91x (cURus)	PG09	4.0	8.0	8.0	69.5	21.8	19.0	19.0
			0.157	0.315	0.315	2.736	0.858	0.748	0.748
	NCGS-PG112x (cURus)	PG11	5.0	10.0	8.0	81.5	25.3	22.0	22.0
			0.197	0.394	0.315	3.212	0.996	0.866	0.866
	NCGS-PG131x (cULus)	PG13	6.0	12.0	10.0	93.0	27.0	24.0	24.0
			0.236	0.472	0.394	3.661	1.063	0.945	0.945
	NCGS-PG161x (cULus)	PG16	10.0	14.0	10.0	106.0	31.1	27.0	27.0
			0.394	0.551	0.394	4.173	1.224	1.063	1.063
	NCGS-PG211x (cULus)	PG21	13.0	18.0	11.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.433	4.626	1.496	1.299	1.299

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)





General purpose nylon cable glands

NSG Series



NSG Series - Ranger® nylon cable gland

Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Corrosion resistant

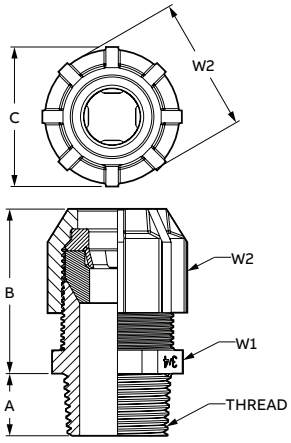
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA 22.2-18
	ANSI C33.84
	NFPA 70 (ANSI)
	CG293 (US Coastguard)

Temperature range
–34°C to +105°C (–29°F to +221°F)

IP Rating	Material
Type 4X or 6 (with 5262 Series sealing rings)	Halogen free nylon construction
	Thermoplastic elastomer sealing
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

Dimensions

NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2920NM	1/2"	3.18	9.53	15.49	38.48	30.71	25.91	29.31
			0.125	0.375	0.610	1.515	1.209	1.020	1.154
	2921NM	1/2"	7.87	14.22	15.49	38.48	30.71	25.91	29.31
			0.310	0.560	0.610	1.515	1.209	1.020	1.154
	2922NM	1/2"	12.70	19.05	15.49	39.27	35.61	30.96	34.24
			0.500	0.750	0.610	1.546	1.402	1.219	1.348
	2930NM	3/4"	3.18	9.53	15.88	39.70	35.61	30.96	34.24
			0.125	0.375	35.718	1.563	1.402	1.219	1.348
	2931NM	3/4"	7.87	14.22	15.88	39.70	35.61	30.96	34.24
			0.310	0.560	35.718	1.563	1.402	1.219	1.348
	2932NM	3/4"	12.70	19.05	15.88	39.70	35.61	30.96	34.24
			0.500	0.750	35.718	1.563	1.402	1.219	1.348
	2940NM	1"	7.87	14.22	17.40	42.14	41.10	37.69	34.24
			0.310	0.560	0.685	1.659	1.618	1.484	1.348
	2941NM	1"	12.70	19.05	17.40	42.14	41.10	37.69	34.24
			0.500	0.750	0.685	1.659	1.618	1.484	1.348
	2942NM	1"	17.78	24.13	17.40	42.93	42.34	38.10	41.00
			0.700	0.950	0.685	1.690	1.667	1.500	1.614

General purpose 90˚elbow nylon cable glands

NSG-90 Series



NSG-90 Series - Ranger® nylon cable gland

Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Corrosion resistant
- Clamping range

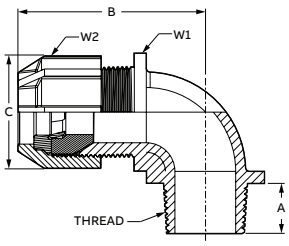
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA 22.2-18
	ANSI C33.84
	NFPA 70 (ANSI)
	CG293 (US Coastguard)

Temperature range
–34°C to +105°C (–29°F to +221°F)

IP Rating	Material
Type 4X or 6 (with 5262 Series sealing rings)	Halogen free nylon construction
Wet and dry locations	

Fire
NFPA 70 (ANSI)

DImensions

NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	4960NM	1/2"	3.18	9.53	15.49	55.37	30.71	27.18	29.31
			0.125	0.375	0.610	2.180	1.209	1.070	1.154
	4961NM	1/2"	7.87	14.22	15.49	55.37	30.71	27.18	29.31
			0.310	0.560	0.610	2.180	1.209	1.070	1.154
	4970NM	3/4"	3.18	9.53	15.88	58.75	35.61	33.07	34.24
			0.125	0.375	0.625	2.313	1.402	1.302	1.348
	4971NM	3/4"	7.87	14.22	15.88	58.75	35.61	33.07	34.24
			0.310	0.560	0.625	2.313	1.402	1.302	1.348
	4972NM	3/4"	12.70	19.05	15.88	58.75	35.61	33.07	34.24
			0.500	0.750	0.625	2.313	1.402	1.302	1.348

Black Beauty® general purpose nylon cable glands

NBBG-G Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Extended pull out performance
- Corrosion resistant

NBBG-G Series - Black Beauty® general purpose nylon cable gland

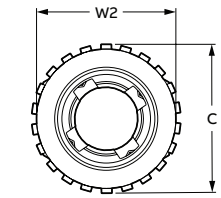
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	NFPA 70 (ANSI) / CSA C22.1
	CG293 (US Coastguard)

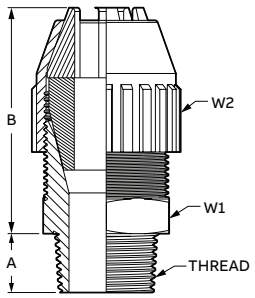
Temperature range
–34°C to +105°C (–29°F to +221°F)

IP Rating	Material
Type 4X	Halogen free nylon construction
(with 5262 Series sealing rings)	Neoprene or TPV sealing ring
(Wet and dry locations)	

Fire
NFPA 70 (ANSI)

Dimensions





NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2671	3/8"	3.18	6.99	11.76	39.04	22.86	19.81	21.34
			0.125	0.275	0.463	1.537	0.900	0.780	0.840
	2690	1/2"	3.18	6.99	15.37	41.78	29.34	25.40	21.34
			0.125	0.275	0.605	1.645	1.155	1.000	0.840
	2672	1/2"	6.35	10.16	15.37	50.52	31.98	27.79	30.35
			0.250	0.400	0.605	1.989	1.259	1.094	1.195
	2673	1/2"	10.16	14.22	15.37	50.52	31.98	27.79	30.35
			0.400	0.560	0.605	1.989	1.259	1.094	1.195
	2691	1/2"	14.22	17.53	15.37	60.83	38.71	33.53	34.54
			0.560	0.690	0.605	2.395	1.524	1.320	1.360
	2692	1/2"	16.76	19.81	15.37	60.83	38.71	33.53	34.54
			0.660	0.780	0.605	2.395	1.524	1.320	1.360
	2693	3/4"	6.35	10.16	15.67	52.60	35.79	30.99	30.35
			0.250	0.400	0.617	2.071	1.409	1.220	1.195
	2694	3/4"	10.16	14.22	15.67	52.60	35.79	30.99	30.35
			0.400	0.560	0.617	2.071	1.409	1.220	1.195
	2674	3/4"	14.22	17.53	15.67	60.53	38.71	33.53	34.54
			0.560	0.690	0.617	2.283	1.524	1.320	1.360
	2675	3/4"	16.76	19.81	15.67	60.53	38.71	33.53	34.54
			0.660	0.780	0.617	2.283	1.524	1.320	1.360
	2696	3/4"	19.56	22.73	15.67	65.30	47.85	41.66	45.72
			0.770	0.895	0.617	2.571	1.884	1.640	1.800
	2676	1"	16.76	19.81	19.56	64.59	47.85	40.64	45.72
			0.660	0.780	0.770	2.543	1.884	1.600	1.800

Black Beauty® general purpose nylon cable glands

NBBG-G Series

Dimensions



NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2677	1"	19.56	22.73	19.56	69.34	47.85	40.64	45.72
			0.770	0.895	0.770	2.730	1.884	1.600	1.800
	2678	1"	22.10	25.91	19.56	69.34	47.85	40.64	45.72
			0.870	1.020	0.770	2.730	1.884	1.600	1.800
	2699	1"	22.61	27.69	19.56	83.82	65.38	56.77	62.99
			0.890	1.090	0.770	3.300	2.574	2.235	2.480
	2702	1 1/4"	22.61	27.69	20.17	63.98	65.38	56.39	62.99
			0.890	1.090	0.794	2.519	2.574	2.220	2.480
	2703	1 1/4"	27.43	32.51	20.17	81.43	65.38	56.39	62.99
			1.080	1.280	0.794	3.206	2.574	2.220	2.480
	2704	1 1/4"	32.26	37.34	20.17	81.43	65.38	56.39	62.99
			1.270	1.470	0.794	3.206	2.574	2.220	2.480
	2705TB	1 1/2"	22.61	29.21	20.57	85.80	76.28	66.68	71.63
			0.890	1.150	0.810	3.378	3.003	2.625	2.820
	2706	1 1/2"	28.96	35.56	20.57	88.98	76.99	66.68	71.63
			1.140	1.400	0.810	3.503	3.031	2.625	2.820
	2707	1 1/2"	35.31	41.91	20.57	88.98	76.99	66.68	71.63
			1.390	1.650	0.810	3.503	3.031	2.625	2.820
	2708	2"	30.23	38.86	21.41	107.98	98.98	79.38	85.73
			1.190	1.530	0.843	4.251	3.897	3.125	3.375
	2709	2"	38.61	47.24	21.41	103.20	98.98	79.38	85.73
			1.520	1.860	0.843	4.063	3.897	3.125	3.375
	2710	2"	46.99	55.63	21.41	103.20	98.98	79.38	85.73
			1.850	2.190	0.843	4.063	3.897	3.125	3.375

Black Beauty® 90˚elbow general purpose nylon cable glands

NBBG -R90 Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Extended pull out performance
- Corrosion resistant

NBBG-R90 Series - Black Beauty® 90˚ elbow nylon cable gland

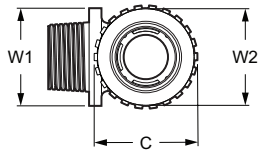
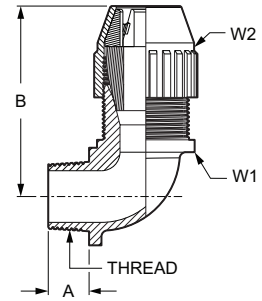
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	NFPA 70 (ANSI) / CSA C22.1
	CG293 (US Coastguard)

Temperature range
–34°C to +105°C (–29°F to +221°F)

IP Rating	Material
Type 4X	Halogen free nylon construction
(with 5262 Series sealing rings)	Neoprene or TPV sealing ring
(Wet and dry locations)	

Fire
NFPA 70 (ANSI)

DImensions

NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2680	3/8"	3.18	6.99	11.76	45.72	22.86	22.35	21.34
			0.125	0.275	0.463	1.800	0.900	0.880	0.840
	2681	1/2"	6.35	10.16	15.37	63.50	31.98	30.48	30.35
			0.250	0.400	0.605	2.500	1.259	1.200	1.195
	2682	1/2"	10.16	14.22	15.37	63.50	31.98	30.48	30.35
			0.400	0.560	0.605	2.500	1.259	1.200	1.195
	2683	3/4"	14.22	17.53	15.67	71.12	37.47	37.47	37.08
			0.560	0.690	0.617	2.800	1.475	1.475	1.460
	2684	3/4"	16.76	19.81	15.67	71.12	37.47	37.47	37.08
			0.660	0.780	0.617	2.800	1.475	1.475	1.460
	2688	1"	14.22	17.53	19.56	76.20	47.85	46.99	45.72
			0.560	0.690	0.770	3.000	1.884	1.850	1.800
	2685	3/4"	16.76	19.81	1.800	81.28	47.85	46.99	45.72
			0.660	0.780	0.617	3.200	1.884	1.850	1.800
	2686	3/4"	19.56	22.73	19.56	81.28	47.85	46.99	45.72
			0.770	0.895	0.770	3.200	1.884	1.850	1.800
	2687	1"	22.10	25.91	19.56	81.28	47.85	46.99	45.72
			0.870	1.020	0.770	3.200	1.884	1.850	1.800

Brass, general purpose cable glands

BCG Series



BCG Series - Brass cable gland

Features and benefits:

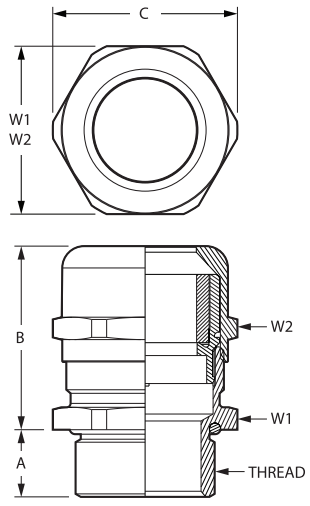
- Low profile cable glands
- Wide cable clamping range
- Good corrosion resistance

Approvals & certifications	Conformity Conforms to:
	EN 62444
	UL514B

Temperature range
Normal use: –20°C to +100°C (–4°F to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

IP Rating	Material
IP66	Nickel plated brass construction
IP68 (5-Bar 30 mins)	Chloroprene seals
NEMA 4	

DImensions



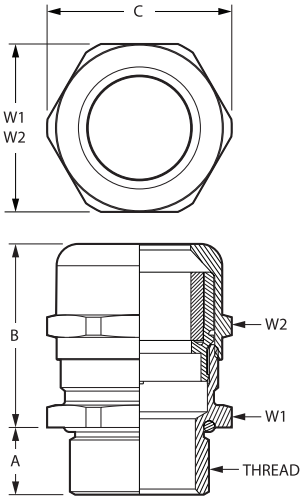
Metric thread	Part no.	Metric thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-M121	M12x1.5	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	BCG-M122 (cURus)	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	BCG-M122-L	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.610	0.551	0.551
	BCG-M161	M16x1.5	2.0	6.0	7.0	23.0	20.0	18.0	17.0
			0.079	0.236	0.276	0.906	0.787	0.709	0.669
	BCG-M161-L	M16x1.5	2.0	6.0	12.0	23.0	20.0	18.0	17.0
			0.079	0.236	0.472	0.906	0.787	0.709	0.669
	BCG-M162 (cURus)	M16x1.5	4.0	8.0	7.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.276	0.906	0.787	0.709	0.669
	BCG-M162-L	M16x1.5	4.0	8.0	12.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.472	0.906	0.787	0.709	0.669
	BCG-M163 (cURus)	M16x1.5	5.0	10.0	7.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.276	1.122	0.866	0.787	0.787
	BCG-M163-L (cURus)	M16x1.5	5.0	10.0	12.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.472	1.122	0.866	0.787	0.787
	BCG-M201	M20x1.5	5.0	9.0	8.0	26.0	24.5	22.0	22.0
			0.197	0.354	0.315	1.024	0.965	0.866	0.866
	BCG-M201-L	M20x1.5	5.0	9.0	12.0	26.0	24.5	22.0	22.0
			0.197	0.354	0.472	1.024	0.965	0.866	0.866
	BCG-M202 (cULus)	M20x1.5	6.0	12.0	8.0	26.5	24.5	22.0	22.0
			0.236	0.472	0.315	1.043	0.965	0.866	0.866

Brass cable glands (general purpose)

BCG Series

Dimensions





Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-M202-L (cULus)	M20x1.5	6.0	12.0	12.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.472	1.024	0.965	0.866	0.866
	BCG-M203 (cULus)	M20x1.5	10.0	14.0	8.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.315	1.102	1.055	0.945	0.945
	BCG-M203-L	M20x1.5	10.0	14.0	12.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.472	1.102	1.055	0.945	0.945
	BCG-M251	M25x1.5	7.0	12.0	8.0	28.0	29.8	27.0	24.0
			0.276	0.472	0.315	1.102	1.173	1.063	0.945
	BCG-M251-L	M25x1.5	7.0	12.0	12.0	28.0	29.8	27.0	24.0
			0.276	0.472	0.472	1.102	1.173	1.063	0.945
	BCG-M252	M25x1.5	9.0	16.0	8.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.315	1.299	1.299	1.181	1.181
	BCG-M252-L	M25x1.5	9.0	16.0	12.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.472	1.299	1.299	1.181	1.181
	BCG-M253 (cULus)	M25x1.5	10.0	14.0	8.0	28.0	29.8	27.0	24.0
			0.394	0.551	0.315	1.102	1.173	1.063	0.945
	BCG-M253-L	M25x1.5	10.0	14.0	12.0	28.0	29.8	27.0	24.0
			0.394	0.551	0.472	1.102	1.173	1.063	0.945
	BCG-M254 (cULus)	M25x1.5	13.0	18.0	8.0	33.0	32.0	30.0	30.0
			0.512	0.709	0.315	1.299	1.260	1.181	1.181
	BCG-M254-L	M25x1.5	13.0	18.0	12.0	33.0	32.0	30.0	30.0
			0.512	0.709	0.472	1.299	1.260	1.181	1.181
	BCG-M321	M32x1.5	9.0	16.0	9.0	33.0	37.5	34.0	30.0
			0.354	0.630	0.354	1.299	1.476	1.339	1.181
	BCG-M321-L	M32x1.5	9.0	16.0	15.0	33.0	37.5	34.0	30.0
			0.354	0.630	0.591	1.299	1.476	1.339	1.181
	BCG-M322	M32x1.5	12.0	20.0	9.0	44.0	44.5	40.0	40.0
			0.472	0.787	0.354	1.732	1.752	1.575	1.575
	BCG-M322-L	M32x1.5	12.0	20.0	15.0	44.0	44.5	40.0	40.0
			0.472	0.787	0.591	1.732	1.752	1.575	1.575
	BCG-M323 (cULus)	M32x1.5	13.0	18.0	9.0	33.0	37.5	34.0	30.0
			0.512	0.709	0.354	1.299	1.476	1.339	1.181
	BCG-M323-L	M32x1.5	13.0	18.0	15.0	33.0	37.5	34.0	30.0
			0.512	0.709	0.591	1.299	1.476	1.339	1.181
	BCG-M324 (cULus)	M32x1.5	15.0	21.0	8.0	36.0	37.0	34.0	34.0
			0.591	0.827	0.315	1.417	1.457	1.339	1.339
	BCG-M324-L (cULus)	M32x1.5	15.0	21.0	15.0	36.0	37.0	34.0	34.0
			0.591	0.827	0.591	1.417	1.457	1.339	1.339
	BCG-M325 (cULus)	M32x1.5	18.0	25.0	9.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.354	1.732	1.752	1.575	1.575
	BCG-M325-L	M32x1.5	18.0	25.0	15.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.591	1.732	1.752	1.575	1.575
	BCG-M401	M40x1.5	12.0	20.0	9.0	38.5	48.5	43.0	40.0
			0.472	0.787	0.354	1.516	1.909	1.693	1.575
	BCG-M401-L	M40x1.5	12.0	20.0	15.0	38.5	48.5	43.0	40.0
			0.472	0.787	0.591	1.516	1.909	1.693	1.575
	BCG-M402	M40x1.5	16.0	23.0	9.0	43.5	48.4	43.0	43.0
			0.630	0.906	0.354	1.713	1.906	1.693	1.693
	BCG-M402-L	M40x1.5	16.0	23.0	15.0	43.5	48.4	43.0	43.0
			0.630	0.906	0.591	1.713	1.906	1.693	1.693

Brass cable glands (general purpose)

BCG Series

Dimensions



Metric thread	Part no.	Metric thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-M403 (cULus)	M40x1.5	19.0	28.0	9.0	43.5	48.4	43.0	43.0
			0.748	1.102	0.354	1.713	1.906	1.693	1.693
	BCG-M403-L (cULus)	M40x1.5	19.0	28.0	15.0	43.5	48.4	43.0	43.0
			0.748	1.102	0.591	1.713	1.906	1.693	1.693
	BCG-M404 (cULus)	M40x1.5	22.0	32.0	9.0	52.5	55.5	50.0	50.0
			0.866	1.260	0.354	2.067	2.185	1.969	1.969
	BCG-M404-L	M40x1.5	22.0	32.0	15.0	52.5	55.5	50.0	50.0
			0.866	1.260	0.591	2.067	2.185	1.969	1.969
	BCG-M501	M50x1.5	20.0	26.0	9.0	48.0	61.0	55.0	50.0
			0.787	1.024	0.354	1.890	2.402	2.165	1.969
	BCG-M501-L	M50x1.5	20.0	26.0	15.0	48.0	61.0	55.0	50.0
			0.787	1.024	0.591	1.890	2.402	2.165	1.969
	BCG-M502 (cULus)	M50x1.5	22.0	32.0	9.0	48.0	61.0	55.0	50.0
			0.866	1.260	0.354	1.890	2.402	2.165	1.969
	BCG-M502-L	M50x1.5	22.0	32.0	15.0	48.0	61.0	55.0	50.0
			0.866	1.260	0.591	1.890	2.402	2.165	1.969
	BCG-M503 (cULus)	M50x1.5	27.0	38.0	9.0	52.0	64.0	58.0	58.0
			1.063	1.496	0.354	2.047	2.520	2.283	2.283
	BCG-M503-L (cULus)	M50x1.5	27.0	38.0	15.0	52.0	64.0	58.0	58.0
			1.063	1.496	0.591	2.047	2.520	2.283	2.283
	BCG-M504	M50x1.5	34.0	44.0	9.0	52.8	75.0	68.0	64.0
			1.339	1.732	0.354	2.079	2.953	2.677	2.520
	BCG-M504-L	M50x1.5	34.0	44.0	15.0	52.8	75.0	68.0	64.0
			1.339	1.732	0.591	2.079	2.953	2.677	2.520
	BCG-M631	M63x1.5	29.0	35.0	10.0	54.0	75.0	68.0	64.0
			1.142	1.378	0.394	2.126	2.953	2.677	2.520
	BCG-M631-L	M63x1.5	29.0	35.0	18.0	54.0	75.0	68.0	64.0
			1.142	1.378	0.709	2.126	2.953	2.677	2.520
	BCG-M632 (cULus)	M63x1.5	34.0	44.0	10.0	54.0	75.0	68.0	64.0
			1.339	1.732	0.394	2.126	2.953	2.677	2.520
	BCG-M632-L (cULus)	M63x1.5	34.0	44.0	18.0	53.0	75.0	68.0	64.0
			1.339	1.732	0.709	2.087	2.953	2.677	2.520
	BCG-M633	M63x1.5	37.0	53.0	10.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.394	2.008	3.268	2.953	2.953
	BCG-M633-L	M63x1.5	37.0	53.0	18.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.709	2.008	3.268	2.953	2.953

Dimensions

NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-0381	3/8" NPT	2.0	6.0	11.5	23.0	21.0	19.0	17.0
			0.079	0.236	0.453	0.906	0.827	0.748	0.669
	BCG-0382	3/8" NPT	5.0	10.0	11.5	29.5	22.0	20.0	20.0
			0.197	0.394	0.453	1.161	0.866	0.787	0.787
	BCG-0501	1/2" NPT	5.0	9.0	13.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.512	1.004	0.965	0.866	0.866

Brass cable glands (general purpose)

BCG Series

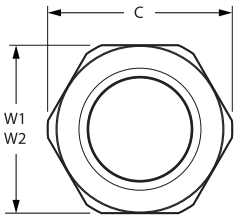
Dimensions

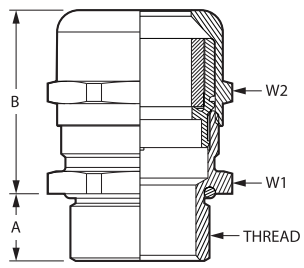


NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-0502 (cULus)	1/2" NPT	6.0	12.0	13.0	25.5	24.5	22.0	22.0
			0.236	0.472	0.512	1.004	0.965	0.866	0.866
	BCG-0503	1/2" NPT	10.0	14.0	13.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.512	1.102	1.055	0.945	0.945
	BCG-0751	3/4" NPT	9.0	16.0	13.0	36.0	33.0	30.0	30.0
			0.354	0.630	0.512	1.417	1.299	1.181	1.181
	BCG-0752 (cULus)	3/4" NPT	13.0	18.0	13.0	36.0	33.0	30.0	30.0
			0.512	0.709	0.512	1.417	1.299	1.181	1.181
	BCG-1001	1" NPT	12.0	20.0	13.0	43.0	48.5	43.0	40.0
			0.472	0.787	0.512	1.693	1.909	1.693	1.575
	BCG-1002 (cULus)	1" NPT	18.0	25.0	13.0	43.0	48.5	43.0	40.0
			0.709	0.984	0.512	1.693	1.909	1.693	1.575

Dimensions







PG thread	Part no.	PG thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BCG-PG71	PG07	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	BCG-PG71-L	PG07	2.0	5.0	10.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.394	0.866	0.610	0.551	0.551
	BCG-PG72 (cURus)	PG07	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	BCG-PG72-L (cURus)	PG07	3.0	6.5	10.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.394	0.866	0.610	0.551	0.551
	BCG-PG91	PG09	2.0	6.0	6.0	23.5	18.9	17.0	17.0
			0.079	0.236	0.236	0.925	0.744	0.669	0.669
	BCG-PG91-L	PG09	2.0	6.0	10.0	23.5	18.9	17.0	17.0
			0.079	0.236	0.394	0.925	0.744	0.669	0.669
	BCG-PG92 (cURus)	PG09	4.0	8.0	6.0	23.5	18.9	17.0	17.0
			0.157	0.315	0.236	0.925	0.744	0.669	0.669
	BCG-PG92-L (cURus)	PG09	4.0	8.0	10.0	23.5	18.9	17.0	17.0
			0.157	0.315	0.394	0.925	0.744	0.669	0.669
	BCG-PG111	PG11	3.0	7.0	6.0	26.0	22.0	20.0	20.0
			0.118	0.276	0.236	1.024	0.866	0.787	0.787
	BCG-PG111-L	PG11	3.0	7.0	10.0	26.0	22.0	20.0	20.0
			0.118	0.276	0.394	1.024	0.866	0.787	0.787
	BCG-PG112 (cURus)	PG11	5.0	10.0	6.0	26.0	22.0	20.0	20.0
			0.197	0.394	0.236	1.024	0.866	0.787	0.787
	BCG-PG112-L (cURus)	PG11	5.0	10.0	10.0	26.0	22.0	20.0	20.0
			0.197	0.394	0.394	1.024	0.866	0.787	0.787
	BCG-PG131	PG13.5	5.0	9.0	6.5	24.5	24.5	22.0	22.0
			0.197	0.354	0.256	0.965	0.965	0.866	0.866
	BCG-PG131-L	PG13.5	5.0	9.0	10.0	24.5	24.5	22.0	22.0
			0.197	0.354	0.394	0.965	0.965	0.866	0.866
	BCG-PG132 (cULus)	PG13.5	6.0	12.0	6.5	24.5	24.5	22.0	22.0
			0.236	0.472	0.256	0.965	0.965	0.866	0.866

Brass cable glands (general purpose)

BCG Series

Dimensions



PG thread	Part no.	PG thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-PG132-L (cULus)	PG13.5	6.0	12.0	10.0	24.5	24.5	22.0	22.0
			0.236	0.472	0.394	0.965	0.965	0.866	0.866
	BCG-PG161	PG16	7.0	12.0	6.5	28.0	26.5	24.0	24.0
			0.276	0.472	0.256	1.102	1.043	0.945	0.945
	BCG-PG161-L	PG16	7.0	12.0	10.0	28.0	26.5	24.0	24.0
			0.276	0.472	0.394	1.102	1.043	0.945	0.945
	BCG-PG162 (cULus)	PG16	10.0	14.0	6.5	28.0	26.5	24.0	24.0
			0.394	0.551	0.256	1.102	1.043	0.945	0.945
	BCG-PG162-L (cULus)	PG16	10.0	14.0	10.0	28.0	26.5	24.0	24.0
			0.394	0.551	0.394	1.102	1.043	0.945	0.945
	BCG-PG211	PG21	9.0	16.0	7.2	33.0	33.0	30.0	30.0
			0.354	0.630	0.283	1.299	1.299	1.181	1.181
	BCG-PG211-L	PG21	9.0	16.0	10.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.394	1.299	1.299	1.181	1.181
	BCG-PG212 (cULus)	PG21	13.0	18.0	7.2	33.0	33.0	30.0	30.0
			0.512	0.709	0.283	1.299	1.299	1.181	1.181
	BCG-PG212-L (cULus)	PG21	13.0	18.0	12.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.472	1.299	1.299	1.181	1.181
	BCG-PG291	PG29	12.0	20.0	8.0	38.5	44.5	40.0	40.0
			0.472	0.787	0.315	1.516	1.752	1.575	1.575
	BCG-PG291-L	PG29	12.0	20.0	12.0	38.5	44.5	40.0	40.0
			0.472	0.787	0.472	1.516	1.752	1.575	1.575
	BCG-PG292 (cULus)	PG29	18.0	25.0	8.0	38.5	44.5	40.0	40.0
			0.709	0.984	0.315	1.516	1.752	1.575	1.575
	BCG-PG292-L (cULus)	PG29	18.0	25.0	12.0	38.5	44.5	40.0	40.0
			0.709	0.984	0.472	1.516	1.752	1.575	1.575
	BCG-PG361	PG36	20.0	26.0	9.0	48.0	55.5	50.0	50.0
			0.787	1.024	0.354	1.890	2.185	1.969	1.969
	BCG-PG361-L	PG36	20.0	26.0	14.0	48.0	55.5	50.0	50.0
			0.787	1.024	0.551	1.890	2.185	1.969	1.969
	BCG-PG362 (cULus)	PG36	22.0	32.0	9.0	48.0	55.5	50.0	50.0
			0.866	1.260	0.354	1.890	2.185	1.969	1.969
	BCG-PG362-L (cULus)	PG36	22.0	32.0	14.0	48.0	55.5	50.0	50.0
			0.866	1.260	0.551	1.890	2.185	1.969	1.969
	BCG-PG421	PG42	25.0	31.0	12.0	49.0	64.0	58.0	58.0
			0.984	1.220	0.472	1.929	2.520	2.283	2.283
	BCG-PG421-L	PG42	25.0	31.0	16.0	49.0	64.0	58.0	58.0
			0.984	1.220	0.630	1.929	2.520	2.283	2.283
	BCG-PG422 (cULus)	PG42	30.0	38.0	12.0	49.0	64.0	58.0	58.0
			1.181	1.496	0.472	1.929	2.520	2.283	2.283
	BCG-PG422-L (cULus)	PG42	30.0	38.0	16.0	49.0	64.0	58.0	58.0
			1.181	1.496	0.630	1.929	2.520	2.283	2.283
	BCG-PG481	PG48	29.0	35.0	14.0	52.5	70.0	64.0	64.0
			1.142	1.378	0.551	2.067	2.756	2.520	2.520
	BCG-PG481-L	PG48	29.0	35.0	18.0	52.5	70.0	64.0	64.0
			1.142	1.378	0.709	2.067	2.756	2.520	2.520
	BCG-PG482 (cULus)	PG48	34.0	44.0	14.0	52.5	70.0	64.0	64.0
			1.339	1.732	0.551	2.067	2.756	2.520	2.520
	BCG-PG482-L (cULus)	PG48	34.0	44.0	18.0	52.5	70.0	64.0	64.0
			1.339	1.732	0.709	2.067	2.756	2.520	2.520

316L Stainless steel cable glands (general purpose)

SCG Series



SCG Series - 316L Stainless steel cable gland

Features and benefits:

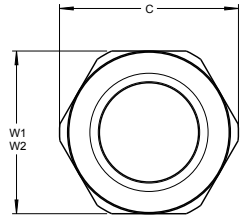
- Low profile compact cable glands
- Wide cable clamping range
- Excellent corrosion resistance
- Suitable for wet locations

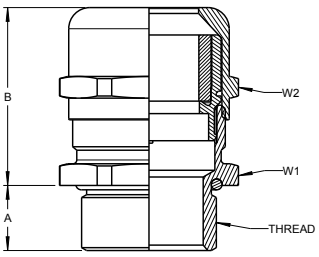
Approvals & certifications	Conformity Conforms to:
CE cULus cRUS	EN 62444
	UL514B /CSA C22.2 No 18.3 (see table for details)

Temperature range
Operating range: –20°C to +100°C (–4°F to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

IP Rating	Material
IP66	Stainless steel 316L construction
IP68 (5-Bar 30 mins)	Chloroprene seals
NEMA 4	

DImensions





Metric thread	Part no.	Metric thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-M121	M12x1.5	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	SCG-M122	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	SCG-M122-L	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.610	0.551	0.551
	SCG-M161	M16x1.5	2.0	6.0	7.0	23.0	20.8	19.0	17.0
			0.079	0.236	0.276	0.906	0.819	0.748	0.669
	SCG-M161-L	M16x1.5	2.0	6.0	12.0	23.0	20.8	19.0	17.0
			0.079	0.236	0.472	0.906	0.819	0.748	0.669
	SCG-M162 (cURus)	M16x1.5	4.0	8.0	7.0	23.0	20.8	19.0	17.0
			0.157	0.315	0.276	0.906	0.819	0.748	0.669
	SCG-M162-L	M16x1.5	4.0	8.0	12.0	23.0	20.8	19.0	17.0
			0.157	0.315	0.472	0.906	0.819	0.748	0.669
	SCG-M163 (cURus)	M16x1.5	5.0	10.0	7.0	28.5	24.5	22.0	22.0
			0.197	0.394	0.276	1.122	0.965	0.866	0.866
	SCG-M163-L	M16x1.5	5.0	10.0	12.0	28.5	24.5	22.0	22.0
			0.197	0.394	0.472	1.122	0.965	0.866	0.866
	SCG-M201	M20x1.5	5.0	9.0	8.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.315	1.004	0.965	0.866	0.866
	SCG-M201-L	M20x1.5	5.0	9.0	12.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.472	1.004	0.965	0.866	0.866
	SCG-M202	M20x1.5	6.0	12.0	8.0	25.5	24.5	22.0	22.0
			0.236	0.472	0.315	1.004	0.965	0.866	0.866

316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions



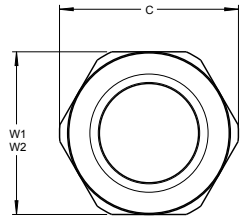
Metric thread	Part no.	Metric thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-M202-L	M20x1.5	6.0	12.0	12.0	25.5	24.5	22.0	22.0
			0.236	0.472	0.472	1.004	0.965	0.866	0.866
	SCG-M203	M20x1.5	10.0	14.0	8.0	27.5	26.8	24.0	24.0
			0.394	0.551	0.315	1.083	1.055	0.945	0.945
	SCG-M203-L	M20x1.5	10.0	14.0	12.0	27.5	26.8	24.0	24.0
			0.394	0.551	0.472	1.083	1.055	0.945	0.945
	SCG-M251	M25x1.5	7.0	12.0	8.0	27.5	29.6	27.0	24.0
			0.276	0.472	0.315	1.083	1.165	1.063	0.945
	SCG-M251-L	M25x1.5	7.0	12.0	12.0	27.5	29.6	27.0	24.0
			0.276	0.472	0.472	1.083	1.165	1.063	0.945
	SCG-M252	M25x1.5	9.0	16.0	8.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.315	1.24	1.299	1.181	1.181
	SCG-M252-L	M25x1.5	9.0	16.0	12.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.472	1.24	1.299	1.181	1.181
	SCG-M253	M25x1.5	10.0	14.0	8.0	27.5	29.6	27.0	24.0
			0.394	0.551	0.315	1.083	1.165	1.063	0.945
	SCG-M253-L	M25x1.5	10.0	14.0	12.0	27.5	29.6	27.0	24.0
			0.394	0.551	0.472	1.083	1.165	1.063	0.945
	SCG-M254	M25x1.5	13.0	18.0	8.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.315	1.24	1.299	1.181	1.181
	SCG-M254-L	M25x1.5	13.0	18.0	12.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.472	1.24	1.299	1.181	1.181
	SCG-M321	M32x1.5	9.0	16.0	9.0	32.5	38.9	36.0	30.0
			0.354	0.630	0.354	1.28	1.531	1.417	1.181
	SCG-M321-L	M32x1.5	9.0	16.0	15.0	32.5	38.9	36.0	30.0
			0.354	0.630	0.591	1.28	1.531	1.417	1.181
	SCG-M322	M32x1.5	12.0	20.0	9.0	39.5	44.5	41.0	41.0
			0.472	0.787	0.354	1.555	1.752	1.614	1.614
	SCG-M322-L	M32x1.5	12.0	20.0	15.0	39.5	44.5	41.0	41.0
			0.472	0.787	0.591	1.555	1.752	1.614	1.614
	SCG-M323	M32x1.5	13.0	18.0	9.0	32.5	38.9	36.0	30.0
			0.512	0.709	0.354	1.28	1.531	1.417	1.181
	SCG-M323-L	M32x1.5	13.0	18.0	15.0	32.5	38.9	36.0	30.0
			0.512	0.709	0.591	1.28	1.531	1.417	1.181
	SCG-M324 (cULus)	M32x1.5	15.0	21.0	8.0	36.0	39.0	36.0	36.0
			0.591	0.827	0.315	1.417	1.535	1.417	1.417
	SCG-M324-L	M32x1.5	15.0	21.0	15.0	36.0	39.0	36.0	36.0
			0.591	0.827	0.591	1.417	1.535	1.417	1.417
	SCG-M325	M32x1.5	18.0	25.0	9.0	39.5	44.5	41.0	41.0
			0.709	0.984	0.354	1.555	1.752	1.614	1.614
	SCG-M325-L	M32x1.5	18.0	25.0	15.0	39.5	44.5	41.0	41.0
			0.709	0.984	0.591	1.555	1.752	1.614	1.614
	SCG-M401	M40x1.5	12.0	20.0	9.0	40.5	51.4	46.0	41.0
			0.472	0.787	0.354	1.594	2.024	1.811	1.614
	SCG-M401-L	M40x1.5	12.0	20.0	15.0	40.5	51.4	46.0	41.0
			0.472	0.787	0.591	1.594	2.024	1.811	1.614
	SCG-M402 (cULus)	M40x1.5	19.0	28.0	9.0	43.5	51.4	46.0	46.0
			0.748	1.102	0.354	1.713	2.024	1.811	1.811
	SCG-M402-L	M40x1.5	19.0	28.0	15.0	43.5	51.4	46.0	46.0
			0.748	1.102	0.591	1.713	2.024	1.811	1.811

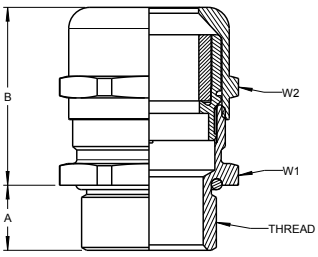
316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions







Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-M403	M40x1.5	18.0	25.0	9.0	40.5	51.4	46.0	46.0
			0.709	0.984	0.354	1.594	2.024	1.811	1.811
	SCG-M403-L	M40x1.5	19.0	28.0	15.0	40.5	51.4	46.0	46.0
			0.748	1.102	0.591	1.594	2.024	1.811	1.811
	SCG-M404	M40x1.5	22.0	32.0	9.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.354	1.87	2.185	1.969	1.969
	SCG-M404-L	M40x1.5	22.0	32.0	15.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.591	1.87	2.185	1.969	1.969
	SCG-M501	M50x1.5	20.0	26.0	9.0	46.0	60.0	55.0	50.0
			0.787	1.024	0.354	1.811	2.362	2.165	1.969
	SCG-M501-L	M50x1.5	20.0	26.0	15.0	46.0	60.0	55.0	50.0
			0.787	1.024	0.591	1.811	2.362	2.165	1.969
	SCG-M502	M50x1.5	22.0	32.0	9.0	46.0	60.0	55.0	50.0
			0.866	1.260	0.354	1.811	2.362	2.165	1.969
	SCG-M502-L	M50x1.5	22.0	32.0	15.0	46.0	60.0	55.0	50.0
			0.866	1.260	0.591	1.811	2.362	2.165	1.969
	SCG-M503 (cULus)	M50x1.5	27.0	38.0	9.0	51.5	67.2	60.0	60.0
			1.063	1.496	0.354	2.028	2.646	2.362	2.362
	SCG-M503-L	M50x1.5	27.0	38.0	15.0	51.5	67.2	60.0	60.0
			1.063	1.496	0.591	2.028	2.646	2.362	2.362
	SCG-M504	M50x1.5	34.0	44.0	9.0	52.0	71.0	65.0	65.0
			1.339	1.732	0.354	2.047	2.795	2.559	2.559
	SCG-M504-L	M50x1.5	34.0	44.0	15.0	53.0	71.0	65.0	65.0
			1.339	1.732	0.591	2.087	2.795	2.559	2.559
	SCG-M631	M63x1.5	29.0	35.0	10.0	53.0	77.0	70.0	65.0
			1.142	1.378	0.394	2.087	2.953	2.756	2.559
	SCG-M631-L	M63x1.5	29.0	35.0	18.0	53.5	77.0	70.0	65.0
			1.142	1.378	0.709	2.106	2.953	2.756	2.559
	SCG-M632	M63x1.5	34.0	44.0	10.0	53.5	77.0	70.0	65.0
			1.339	1.732	0.394	2.106	3.031	2.756	2.559
	SCG-M632-L	M63x1.5	34.0	44.0	18.0	53.5	53.5	70.0	65.0
			1.339	1.732	0.709	2.106	2.106	2.756	2.559
	SCG-M633	M63x1.5	37.0	53.0	10.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.394	2.008	3.268	2.953	2.953
	SCG-M633-L	M63x1.5	37.0	53.0	18.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.709	2.008	3.268	2.953	2.953

Dimensions

NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-0381	3/8" NPT	2.0	6.0	11.5	23.0	21.0	19.0	17.0
			0.079	0.236	0.453	0.906	0.827	0.748	0.669
	SCG-0382	3/8" NPT	5.0	10.0	11.5	29.5	22.0	20.0	20.0
			0.197	0.394	0.453	1.161	0.866	0.787	0.787
	SCG-0501	1/2" NPT	5.0	9.0	13.0	29.0	30.5	27.0	22.0
			0.197	0.354	0.512	1.142	1.201	1.063	0.866

316L Stainless steel cable glands (general purpose)

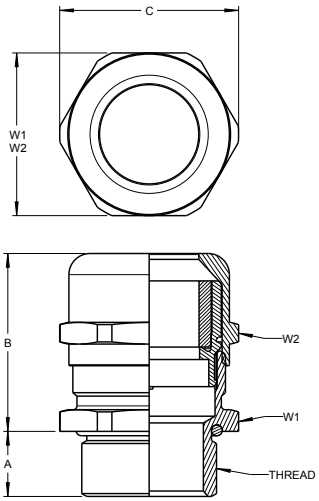
SCG Series

Dimensions



NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-0502 (cULus)	1/2" NPT	6.0	12.0	13.0	29.0	30.5	27.0	22.0
			0.236	0.472	0.512	1.142	1.201	1.063	0.866
	SCG-0503	1/2" NPT	10.0	14.0	13.0	27.5	26.5	24.0	24.0
			0.394	0.551	0.512	1.083	1.043	0.945	0.945
	SCG-0751	3/4" NPT	9.0	16.0	13.0	34.0	33.0	30.0	30.0
			0.354	0.630	0.512	1.339	1.299	1.181	1.181
	SCG-0752	3/4" NPT	13.0	18.0	13.0	34.0	33.0	30.0	30.0
			0.512	0.709	0.512	1.339	1.299	1.181	1.181
	SCG-1001	1" NPT	12.0	20.0	13.0	45.5	45.5	41.0	41.0
			0.472	0.787	0.512	1.791	1.791	1.614	1.614
	SCG-1002	1" NPT	18.0	25.0	13.0	45.5	45.5	41.0	41.0
			0.709	0.984	0.512	1.791	1.791	1.614	1.614

Dimensions



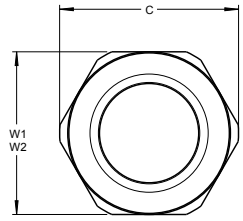
PG thread	Part no.	PG thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-PG71	PG07	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	SCG-PG71-L	PG07	2.0	5.0	10.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.394	0.866	0.610	0.551	0.551
	SCG-PG72	PG07	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	SCG-PG72-L	PG07	3.0	6.5	10.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.394	0.866	0.610	0.551	0.551
	SCG-PG91	PG09	2.0	6.0	6.0	23.0	21.0	19.0	17.0
			0.079	0.236	0.236	0.906	0.827	0.748	0.669
	SCG-PG91-L	PG09	2.0	6.0	10.0	23.0	21.0	19.0	17.0
			0.079	0.236	0.394	0.906	0.827	0.748	0.669
	SCG-PG92	PG09	4.0	8.0	6.0	23.0	21.0	19.0	17.0
			0.157	0.315	0.236	0.906	0.827	0.748	0.669
	SCG-PG92-L	PG09	4.0	8.0	10.0	25.2	24.0	19.0	22.0
			0.157	0.315	0.394	1.004	0.945	0.748	0.866
	SCG-PG111	PG11	3.0	7.0	6.0	25.5	24.0	22.0	22.0
			0.118	0.276	0.236	1.004	0.945	0.866	0.866
	SCG-PG111-L	PG11	3.0	7.0	10.0	25.5	24.0	22.0	22.0
			0.118	0.276	0.394	1.004	0.945	0.866	0.866
	SCG-PG112	PG11	5.0	10.0	6.0	25.5	24.0	22.0	22.0
			0.197	0.394	0.236	1.004	0.945	0.866	0.866
	SCG-PG112-L	PG11	5.0	10.0	10.0	25.5	24.0	22.0	22.0
			0.197	0.394	0.394	1.004	0.945	0.866	0.866
	SCG-PG131	PG13.5	5.0	9.0	6.5	24.0	24.5	22.0	22.0
			0.197	0.354	0.256	0.945	0.965	0.866	0.866
	SCG-PG131-L	PG13.5	5.0	9.0	10.0	24.0	24.5	22.0	22.0
			0.197	0.354	0.394	0.945	0.965	0.866	0.866
	SCG-PG132	PG13.5	6.0	12.0	6.5	24.0	24.5	22.0	22.0
			0.236	0.472	0.256	0.945	0.965	0.866	0.866

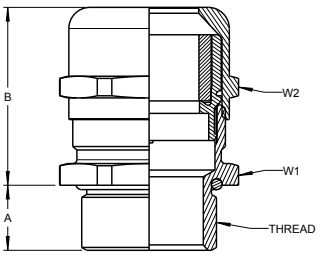
316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions







PG thread	Part no.	PG thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	SCG-PG132-L	PG13.5	6.0	12.0	10.0	24.0	24.5	22.0	22.0
			0.236	0.472	0.394	0.945	0.965	0.866	0.866
	SCG-PG161	PG16	7.0	12.0	6.5	27.5	26.5	24.0	24.0
			0.276	0.472	0.256	1.083	1.043	0.945	0.945
	SCG-PG161-L	PG16	7.0	12.0	10.0	27.5	26.5	24.0	24.0
			0.276	0.472	0.394	1.083	1.043	0.945	0.945
	SCG-PG162	PG16	10.0	14.0	6.5	24.0	26.5	24.0	24.0
			0.394	0.551	0.256	0.945	1.043	0.945	0.945
	SCG-PG162-L	PG16	10.0	14.0	10.0	24.0	26.5	24.0	24.0
			0.394	0.551	0.394	0.945	1.043	0.945	0.945
	SCG-PG211	PG21	9.0	16.0	7.2	31.5	33.0	30.0	30.0
			0.354	0.630	0.283	1.240	1.299	1.181	1.181
	SCG-PG211-L	PG21	9.0	16.0	10.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.394	1.240	1.299	1.181	1.181
	SCG-PG212	PG21	13.0	18.0	7.2	31.5	33.0	30.0	30.0
			0.512	0.709	0.283	1.240	1.299	1.181	1.181
	SCG-PG212-L	PG21	13.0	18.0	12.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.472	1.240	1.299	1.181	1.181
	SCG-PG291	PG29	12.0	20.0	8.0	40.5	44.5	40.0	40.0
			0.472	0.787	0.315	1.594	1.752	1.575	1.575
	SCG-PG291-L	PG29	12.0	20.0	12.0	40.5	44.5	40.0	40.0
			0.472	0.787	0.472	1.594	1.752	1.575	1.575
	SCG-PG292	PG29	18.0	25.0	8.0	40.5	44.5	40.0	40.0
			0.709	0.984	0.315	1.594	1.752	1.575	1.575
	SCG-PG292-L	PG29	18.0	25.0	12.0	40.5	44.5	40.0	40.0
			0.709	0.984	0.472	1.594	1.752	1.575	1.575
	SCG-PG361	PG36	20.0	26.0	9.0	47.5	55.5	50.0	50.0
			0.787	1.024	0.354	1.870	2.185	1.969	1.969
	SCG-PG361-L	PG36	20.0	26.0	14.0	47.5	55.5	50.0	50.0
			0.787	1.024	0.551	1.870	2.185	1.969	1.969
	SCG-PG362	PG36	22.0	32.0	9.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.354	1.870	2.185	1.969	1.969
	SCG-PG362-L	PG36	22.0	32.0	14.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.551	1.870	2.185	1.969	1.969
	SCG-PG421	PG42	25.0	31.0	12.0	48.0	66.5	60.0	60.0
			0.984	1.220	0.472	1.890	2.618	2.362	2.362
	SCG-PG421-L	PG42	25.0	31.0	16.0	48.0	66.5	60.0	60.0
			0.984	1.220	0.630	1.890	2.618	2.362	2.362
	SCG-PG422	PG42	30.0	38.0	12.0	48.0	66.5	60.0	60.0
			1.181	1.496	0.472	1.890	2.618	2.362	2.362
	SCG-PG422-L	PG42	30.0	38.0	16.0	48.0	66.5	60.0	60.0
			1.181	1.496	0.630	1.890	2.618	2.362	2.362
	SCG-PG481	PG48	29.0	35.0	14.0	49.5	72.0	65.0	65.0
			1.142	1.378	0.551	1.949	2.835	2.559	2.559
	SCG-PG481-L	PG48	29.0	35.0	18.0	49.5	72.0	65.0	65.0
			1.142	1.378	0.709	1.949	2.835	2.559	2.559
	SCG-PG482	PG48	34.0	44.0	14.0	49.5	72.0	65.0	65.0
			1.339	1.732	0.551	1.949	2.835	2.559	2.559
	SCG-PG482-L	PG48	34.0	44.0	18.0	49.5	72.0	65.0	65.0
			1.339	1.732	0.709	1.949	2.835	2.559	2.559

Brass EMC cable glands (shielded and screened cables)

BEM Series



BEM Series - Brass EMC cable glands

Features and benefits:

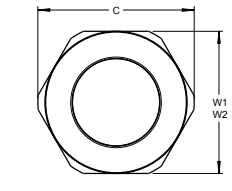
- Low profile compact cable glands
- Wide cable clamping range
- Good corrosion resistance
- Extended radial contact with the shielding for improved EMI protection

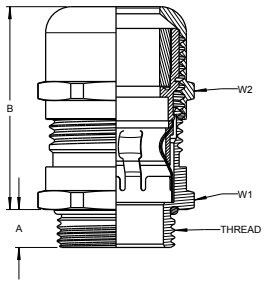
Approvals & certifications	Conformity Conforms to:
	EN 62444
	LVD (Low Voltage Directive) 2014/35/EU
	UL514B/CSA C22.2 No 18.3 (see table for details)

Temperature range
Operating range: –40°C to +100°C (–40°C to +212°F)
Short Term: –30°C to +150°C (–22°F to +302°F)

IP Rating	Material
IP66	Nickel plated brass construction
IP68 (5-Bar 30 mins)	Chloroprene seals
NEMA 4	Tinned copper EMC contacts

Dimensions





Metric thread	Part no.	Metric thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Shield size Min. (mm/in)	Shield size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BEM-M121 (cURus)	M12x1.5	3.0	6.5	2.0	5.0	6.0	28.0	15.5	14.0	14.0
			0.118	0.256	0.079	0.197	0.236	1.102	0.610	0.551	0.551
	BEM-M161 (cURus)	M16x1.5	5.0	10.0	3.5	8.0	6.0	33.0	22.0	20.0	20.0
			0.197	0.394	0.138	0.315	0.236	1.299	0.866	0.787	0.787
	BEM-M201 (cULus)	M20x1.5	6.0	12.0	4.5	10.0	6.0	31.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.236	1.240	0.965	0.866	0.866
	BEM-M202 (cULus)	M20x1.5	7.5	14.0	5.5	11.5	8.0	39.5	26.8	24.0	24.0
			0.295	0.551	0.217	0.453	0.315	1.555	1.055	0.945	0.945
	BEM-M251 (cULus)	M25x1.5	10.0	18.0	7.0	14.0	8.0	43.0	33.0	30.0	30.0
			0.394	0.709	0.276	0.551	0.315	1.693	1.299	1.181	1.181
	BEM-M321 (cULus)	M32x1.5	16.0	25.0	12.0	20.0	9.0	53.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.354	2.087	1.713	1.575	1.575
	BEM-M401 (cULus)	M40x1.5	22.0	32.0	18.0	27.0	9.0	60.5	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.354	2.382	2.185	1.969	1.969
	BEM-M501 (cULus)	M50x1.5	30.0	38.0	26.0	34.0	9.0	72.0	64.0	58.0	58.0
			1.181	1.496	1.024	1.339	0.354	2.834	2.520	2.283	2.283
	BEM-M631 (cULus)	M63x1.5	34.0	44.0	30.0	40.0	14.0	58.0	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.551	2.283	2.953	2.677	2.520
	BEM-M632 (cULus)	M63x1.5	37.0	53.0	33.0	49.0	10.0	73.0	83.0	75.0	75.0
			1.457	2.087	1.299	1.929	0.394	2.874	3.268	2.953	2.953

Brass EMC cable glands (shielded and screened cables)

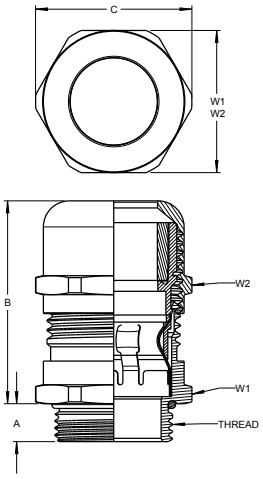
BEM Series

Dimensions



NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Shield size Min. (mm/in)	Shield size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BEM-0251	1/4"	3.0	6.5	2.0	5.0	11.5	28.0	16.5	15.0	14.0
			0.118	0.256	0.079	0.197	0.453	1.102	0.650	0.591	0.551
	BEM-0381	3/8"	5.0	10.0	3.5	8.0	11.5	33.0	22.0	20.0	20.0
			0.197	0.394	0.138	0.315	0.453	1.299	0.866	0.787	0.787
	BEM-0501	1/2"	6.0	12.0	4.5	10.0	15.0	37.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.591	1.476	0.965	0.866	0.866
	BEM-0502	1/2"	7.5	14.0	5.5	11.5	15.0	39.5	26.8	24.0	24.0
			0.295	0.551	0.217	0.453	0.591	1.555	1.055	0.945	0.945
	BEM-0751	3/4"	10.0	18.0	7.0	14.0	15.0	41.5	33.0	30.0	30.0
			0.394	0.709	0.276	0.551	0.591	1.634	1.299	1.181	1.181
	BEM-1001	1"	16.0	25.0	12.0	20.0	20.0	52.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.787	2.047	1.713	1.575	1.575
	BEM-1251	1 1/4"	22.0	32.0	18.0	27.0	20.0	61.0	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.787	2.402	2.185	1.969	1.969
	BEM-1501	1 1/2"	30.0	38.0	26.0	34.0	22.0	71.0	64.0	58.0	58.0
			1.181	1.496	1.024	1.339	0.866	2.795	2.520	2.283	2.283
	BEM-2001	2"	34.0	44.0	30.0	40.0	22.0	71.0	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.866	2.815	2.953	2.677	2.520

Dimensions



PG thread	Part no.	PG thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Shield size Min. (mm/in)	Shield size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	BEM-PG71	PG7	3.0	6.5	2.0	5.0	6.0	28.0	16.5	15.0	14.0
			0.118	0.256	0.079	0.197	0.236	1.102	0.650	0.591	0.551
	BEM-PG111	PG11	5.0	10.0	3.5	8.0	6.0	33.0	23.0	21.0	20.0
			0.197	0.394	0.138	0.315	0.236	1.299	0.906	0.827	0.787
	BEM-PG131	PG13	6.0	12.0	4.5	10.0	6.5	31.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.256	1.240	0.965	0.866	0.866
	BEM-PG161	PG16	7.5	14.0	5.5	11.5	6.5	39.5	27.5	25.0	24.0
			0.295	0.551	0.217	0.453	0.256	1.555	1.083	0.984	0.945
	BEM-PG211	PG21	10.0	18.0	7.0	14.0	7.0	42.5	35.5	32.0	30.0
			0.394	0.709	0.276	0.551	0.276	1.673	1.398	1.260	1.181
	BEM-PG291	PG29	16.0	25.0	12.0	20.0	9.0	53.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.354	2.087	1.713	1.575	1.575
	BEM-PG361	PG36	22.0	32.0	18.0	27.0	9.0	60.0	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.354	2.362	2.185	1.969	1.969
	BEM-PG421	PG42	30.0	38.0	26.0	34.0	12.0	72.5	66.5	60.0	58.0
			1.181	1.496	1.024	1.339	0.472	2.854	2.618	2.362	2.283
	BEM-PG481	PG48	34.0	44.0	30.0	40.0	14.0	58.5	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.551	2.303	2.953	2.677	2.520

General purpose cable glands

MSG Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable

MSG Series -General purpose cable glands

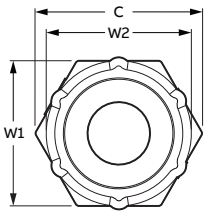
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84

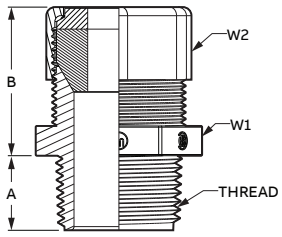
Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6	Steel/Zinc construction
(With 5262 Series sealing rings)	Neoprene sealing ring
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

DImensions





NPT	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2516 †	1/4"	1.52	3.18	11.68	24.83	20.98	19.05	19.05
			0.060	0.125	0.460	0.978	0.826	0.750	0.750
	2517 †	1/4"	3.05	6.35	11.68	24.83	20.98	19.05	19.05
			0.120	0.250	0.460	0.978	0.826	0.750	0.750
	2518 †	3/8"	1.52	3.81	11.68	24.83	24.71	22.23	22.23
			0.060	0.150	0.460	0.978	0.973	0.875	0.875
	2519 † **	3/8"	3.81	0.76	11.68	24.83	24.71	22.23	22.23
			0.150	0.030	0.460	0.978	0.973	0.875	0.875
	2520	1/2"	3.18	6.35	15.62	28.83	29.34	25.40	25.91
			0.125	0.250	0.615	1.135	1.155	1.000	1.020
	2521	1/2"	6.35	9.53	15.62	28.83	29.34	25.40	25.91
			0.250	0.375	0.615	1.135	1.155	1.000	1.020
	2522	1/2"	9.53	12.70	15.62	28.83	29.34	25.40	25.91
			0.375	0.500	0.615	1.135	1.155	1.000	1.020
	2523	1/2"	11.43	14.22	15.62	28.83	29.34	25.40	26.21
			0.450	0.560	0.615	1.135	1.155	1.000	1.032
	2524 *	1/2"	12.70	15.88	15.62	28.89	34.93	30.15	31.12
			0.500	0.625	0.615	1.138	1.375	1.187	1.225
	2525 *	1/2"	15.88	19.05	15.62	28.89	34.93	30.15	31.12
			0.625	0.750	0.615	1.138	1.375	1.187	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body
† Not UL listed
** Not CSA certified

General purpose cable glands

MSG Series

Dimensions



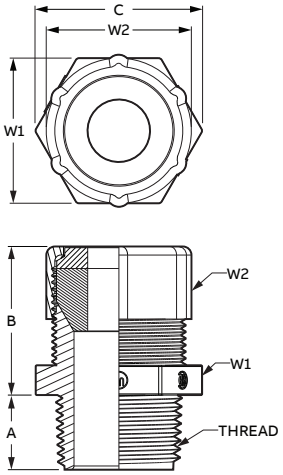
NPT	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2530	3/4"	3.18	6.35	15.93	34.29	35.94	30.99	31.12
			0.125	0.250	0.627	1.350	1.415	1.220	1.225
	2531	3/4"	6.35	9.53	15.93	34.29	35.94	30.99	31.12
			0.250	0.375	0.627	1.350	1.415	1.220	1.225
	2532	3/4"	9.53	12.70	15.93	34.29	35.94	30.99	31.12
			0.375	0.500	0.627	1.350	1.415	1.220	1.225
	2534	3/4"	12.70	15.88	15.93	34.29	35.94	30.99	31.12
			0.500	0.625	0.627	1.350	1.415	1.220	1.225
	2535	3/4"	15.88	19.05	15.93	34.29	34.93	30.99	31.12
			0.625	0.750	0.627	1.350	1.375	1.220	1.225
	2536*	3/4"	19.05	22.35	15.94	33.27	43.99	38.10	37.97
			0.750	0.880	0.628	1.310	1.732	1.500	1.495
	2541	1"	6.35	9.53	20.02	30.30	43.71	37.85	31.12
			0.250	0.375	0.788	1.193	1.721	1.490	1.225
	2542	1"	9.53	12.70	20.02	30.30	43.71	37.85	31.12
			0.375	0.500	0.788	1.193	1.721	1.490	1.225
	2544	1"	12.70	15.88	20.02	30.30	43.71	37.85	31.12
			0.500	0.625	0.788	1.193	1.721	1.490	1.225
	2545	1"	15.88	19.05	20.02	30.30	18.31	37.85	31.12
			0.625	0.750	0.788	1.193	0.721	1.490	1.225
	2546	1"	19.05	22.35	20.03	35.69	43.99	38.10	37.97
			0.750	0.880	0.789	1.405	1.732	1.500	1.495
	2547	1"	22.23	25.02	20.03	35.69	43.99	38.10	37.97
			0.875	0.985	0.789	1.405	1.732	1.500	1.495
	2548*	1"	22.35	27.05	19.84	40.49	56.82	49.21	48.26
			0.880	1.065	0.781	1.594	2.237	1.938	1.900
	2549*	1"	27.05	30.61	19.84	40.49	56.82	49.21	48.26
			1.065	1.205	0.781	1.594	2.237	1.938	1.900
	2558	1 1/4"	22.35	27.05	20.41	34.37	56.82	49.21	48.26
			0.880	1.065	0.804	1.353	2.237	1.938	1.900
	2559	1 1/4"	27.05	30.61	20.41	34.37	56.82	49.21	48.26
			1.065	1.205	0.804	1.353	2.237	1.938	1.900
	2556*	1 1/4"	30.15	34.93	20.62	42.86	61.44	53.21	54.58
			1.187	1.375	0.812	1.688	2.419	2.095	2.149
	2557*	1 1/4"	34.93	37.72	20.62	42.86	61.44	53.21	54.58
			1.375	1.485	0.812	1.688	2.419	2.095	2.149
	2562	1 1/2"	20.62	25.40	20.82	42.68	65.99	57.15	54.58
			0.812	1.000	0.820	1.681	2.598	2.250	2.149
	2563	1 1/2"	25.40	30.15	20.82	52.76	65.99	57.15	54.58
			1.000	1.187	0.820	2.077	2.598	2.250	2.149
	2564	1 1/2"	30.15	34.93	20.82	52.76	65.99	57.15	54.58
			1.187	1.375	0.820	2.077	2.598	2.250	2.149
	2565*	1 1/2"	34.93	41.28	20.64	46.04	76.05	65.86	66.19
			1.375	1.625	0.813	1.813	2.994	2.593	2.606
	2573	2"	28.58	34.93	21.60	52.25	78.84	68.28	66.19
			1.125	1.375	0.851	2.057	3.104	2.688	2.606
	2574	2"	34.93	41.28	21.60	52.25	78.84	68.28	66.19
			1.375	1.625	0.851	2.057	3.104	2.688	2.606

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG Series

Dimensions



NPT	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2575	2"	41.28	47.63	21.60	52.25	78.84	68.28	66.19
			1.625	1.875	0.851	2.057	3.104	2.688	2.606
	2576*	2"	44.45	49.91	21.43	67.47	84.33	73.03	78.97
			1.750	1.965	0.844	2.656	3.320	2.875	3.109
	2577*	2"	49.20	55.55	21.43	67.47	85.32	73.03	85.32
			1.937	2.187	0.844	2.656	3.359	2.875	3.359
	2584	2 1/2"	44.45	49.91	26.19	69.04	92.13	79.78	85.32
			1.750	1.965	1.031	2.718	3.627	3.141	3.359
	2585	2 1/2"	49.20	55.55	26.19	69.04	92.13	79.78	85.32
			1.937	2.187	1.031	2.718	3.627	3.141	3.359
	2586*	2 1/2"	54.76	59.94	26.19	81.74	104.78	90.47	104.78
			2.156	2.360	1.031	3.218	4.125	3.562	4.125
	2587*	2 1/2"	59.69	65.15	26.19	81.74	104.78	90.47	104.78
			2.350	2.565	1.031	3.218	4.125	3.562	4.125
	2592	3"	54.76	59.94	26.19	81.74	109.98	95.25	104.78
			2.156	2.360	1.031	3.218	4.330	3.750	4.125
	2593	3"	59.69	65.15	26.19	81.74	109.98	95.25	104.78
			2.350	2.565	1.031	3.218	4.330	3.750	4.125
	2594	3"	64.39	69.85	26.19	81.74	109.98	95.25	104.78
			2.535	2.750	1.031	3.218	4.330	3.750	4.125
	2595*	3"	69.47	75.82	27.79	94.46	125.10	108.33	119.06
			2.735	2.985	1.094	3.719	4.925	4.265	4.688
	2596*	3"	75.44	81.79	27.79	94.46	125.10	108.33	119.06
			2.970	3.220	1.094	3.719	4.925	4.265	4.688

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-90 Series



Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Elbow construction for compact installations

MSG-90 Series -General purpose 90˚ elbow cable glands

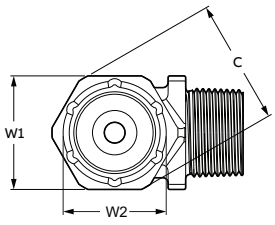
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70 (ANSI)

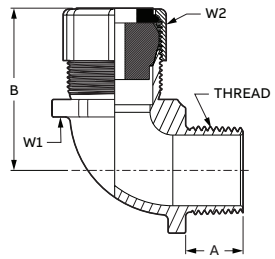
Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6	Steel/Zinc construction
(With 5262 Series sealing rings)	Neoprene sealing ring
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

DImensions





NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2268	1/2"	6.35	9.53	17.07	43.66	33.22	26.19	26.19
			0.250	0.375	0.672	1.719	1.308	1.031	1.031
	2269	1/2"	9.53	12.70	17.07	43.66	33.22	26.19	26.19
			0.375	0.500	0.672	1.719	1.308	1.031	1.031
	2270	1/2"	11.43	14.22	17.07	43.66	33.22	26.19	26.19
			0.450	0.560	0.672	1.719	1.308	1.031	1.031
	2250*	1/2"	12.70	15.88	19.84	42.88	39.70	28.83	31.12
			0.500	0.625	0.781	1.688	1.563	1.135	1.225
	2251 *	1/2"	15.88	19.05	19.84	42.88	39.70	28.83	31.12
			0.625	0.750	0.781	1.688	1.563	1.135	1.225
	2252	1/2"	3.18	6.35	17.27	44.45	38.38	33.50	31.12
			0.125	0.250	0.680	1.750	1.511	1.319	1.225
	2271	3/4"	6.35	9.53	17.27	41.28	38.38	33.50	31.12
			0.250	0.375	0.680	1.625	1.511	1.319	1.225
	2272	3/4"	9.53	12.70	17.27	41.28	38.38	33.50	31.12
			0.375	0.500	0.680	1.625	1.511	1.319	1.225
	2273	3/4"	12.70	15.88	17.27	41.28	38.38	33.50	31.12
			0.500	0.625	0.680	1.625	1.511	1.319	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-90 Series

Dimensions



NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2274 *	3/4"	15.75	19.05	17.27	41.28	38.38	33.50	31.12
			0.620	0.750	0.680	1.625	1.511	1.319	1.225
	2253 *	3/4"	19.05	22.35	15.09	50.01	37.97	34.93	37.97
			0.750	0.880	0.594	1.969	1.495	1.375	1.495
	2254	1"	9.53	12.70	19.84	50.80	39.70	34.34	31.12
			0.375	0.500	0.781	2.000	1.563	1.352	1.225
	2255	1"	12.70	15.88	19.84	50.80	39.70	34.34	31.12
			0.500	0.625	0.781	2.000	1.563	1.352	1.225
	2256 *	1"	15.88	19.05	19.84	50.80	39.70	34.34	31.12
			0.625	0.750	0.781	2.000	1.563	1.352	1.225
	2275	1"	19.05	22.23	20.65	50.80	39.70	39.70	37.97
			0.750	0.875	0.813	2.000	1.563	1.563	1.495
	2276	1"	22.23	25.02	20.65	50.80	39.70	39.70	37.97
			0.875	0.985	0.813	2.000	1.563	1.563	1.495
	2257 *	1"	22.35	27.05	19.84	67.46	48.46	34.37	48.46
			0.880	1.065	0.781	2.656	1.908	1.353	1.908
	2258 *	1"	27.05	30.61	19.84	67.46	48.46	34.37	48.46
			1.065	1.205	0.781	2.656	1.908	1.353	1.908
	2277	1 1/4"	22.35	27.05	19.84	53.04	48.46	34.37	48.46
			0.880	1.065	0.781	2.088	1.908	1.353	1.908
	2278	1 1/4"	27.05	30.61	19.84	53.04	48.46	34.37	48.46
			1.065	1.205	0.781	2.088	1.908	1.353	1.908
	2279 *	1 1/4"	30.15	34.93	20.65	71.45	50.80	50.80	48.46
			1.187	1.375	0.813	2.813	2.000	2.000	1.908
	2280 *	1 1/4"	34.93	37.72	20.65	71.45	54.58	50.80	54.58
			1.375	1.485	0.813	2.813	2.149	2.000	2.149
	2282	1 1/2"	25.40	30.15	20.65	73.03	54.58	53.98	54.58
			1.000	1.187	0.813	2.875	2.149	2.125	2.149
	2283 *	1 1/2"	30.15	34.93	20.65	73.03	54.58	53.98	54.58
			1.187	1.375	0.813	2.875	2.149	2.125	2.149
	2284	2"	28.58	34.93	21.44	82.55	69.85	60.50	66.01
			1.125	1.375	0.844	3.250	2.750	2.382	2.599
	2285	2"	34.93	41.28	21.44	82.55	69.85	60.50	66.01
			1.375	1.625	0.844	3.250	2.750	2.382	2.599
	2286	2"	41.28	47.63	21.44	82.55	69.85	60.50	66.01
			1.625	1.875	0.844	3.250	2.750	2.382	2.599

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-45 Series



Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Elbow construction for compact installations

MSG-45 Series -General purpose 45˚ elbow cable glands

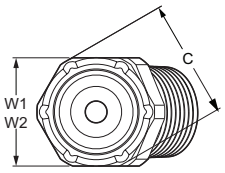
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70 (ANSI)

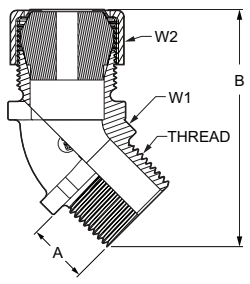
Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6	Steel/Zinc construction
(With 5262 Series sealing rings)	Neoprene sealing ring
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

Dimensions





NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2200	1/2"	3.18	6.35	17.48	32.54	30.18	27.00	30.99
			0.125	0.250	0.688	1.281	1.188	1.063	1.220
	2201	1/2"	6.35	9.53	17.48	32.54	30.18	27.00	30.99
			0.250	0.375	0.688	1.281	1.188	1.063	1.220
	2202	1/2"	9.53	12.70	17.48	32.54	30.18	27.00	30.99
			0.375	0.500	0.688	1.281	1.188	1.063	1.220
	2203	1/2"	11.43	14.22	17.48	32.54	30.18	27.00	30.99
			0.450	0.560	0.688	1.281	1.188	1.063	1.220
	2204 *	1/2"	12.70	15.88	16.43	46.05	32.99	28.58	31.12
			0.500	0.625	0.647	1.813	1.299	1.125	1.225
	2205 *	1/2"	15.88	19.05	16.43	46.05	32.99	28.58	31.12
			0.625	0.750	0.647	1.813	1.299	1.125	1.225
	2206-TB	3/4"	3.18	6.35	16.69	46.05	35.76	30.96	31.12
			0.125	0.250	0.657	1.813	1.408	1.219	1.225
	2207-TB	3/4"	6.35	9.53	16.69	46.05	35.76	30.96	31.12
			0.250	0.375	0.657	1.813	1.408	1.219	1.225
	2208-TB	3/4"	9.53	12.70	16.69	46.05	35.76	30.96	31.12
			0.375	0.500	0.657	1.813	1.408	1.219	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-45 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2209	3/4"	12.70	15.88	16.69	46.05	35.76	30.96	31.12
			0.500	0.625	0.657	1.813	1.408	1.219	1.225
	2210	3/4"	15.88	19.05	16.69	46.05	35.76	30.96	31.12
			0.625	0.750	0.657	1.813	1.408	1.219	1.225
	2211 *	3/4"	19.05	22.35	19.84	38.10	40.34	34.93	37.97
			0.750	0.880	0.781	1.500	1.588	1.375	1.495
	2213	1"	9.53	12.70	19.84	38.10	43.99	38.10	31.12
			0.375	0.500	0.781	1.500	1.732	1.500	1.225
	2214	1"	12.70	15.88	19.84	38.10	43.99	38.10	31.12
			0.500	0.625	0.781	1.500	1.732	1.500	1.225
	2215	1"	15.88	19.05	19.84	38.10	43.99	38.10	31.12
			0.625	0.750	0.781	1.500	1.732	1.500	1.225
	2216	1"	19.05	22.23	19.84	37.31	45.82	39.70	37.97
			0.750	0.875	0.781	1.469	1.804	1.563	1.495
	2217 *	1"	22.23	25.02	19.84	37.31	45.82	39.70	37.97
			0.875	0.985	0.781	1.469	1.804	1.563	1.495
	2218 *	1"	22.35	27.05	19.84	50.01	54.99	47.63	48.54
			0.880	1.065	0.781	1.969	2.165	1.875	1.911
	2219 *	1"	27.05	30.61	19.84	50.01	54.99	47.63	48.54
			1.065	1.205	0.781	1.969	2.165	1.875	1.911
	2222 *	1 1/4"	30.15	34.93	21.44	57.15	54.38	50.80	54.38
			1.187	1.375	0.844	2.250	2.141	2.000	2.141
	2223 *	1 1/4"	34.93	37.72	21.44	57.15	79.78	50.80	79.78
			1.375	1.485	0.844	2.250	3.141	2.000	3.141

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose internal thread cable glands

MSCG-I series



Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Internal securing method to reduce intrusion into enclosure

MSCG-I Series -General purpose Internal thread cable glands

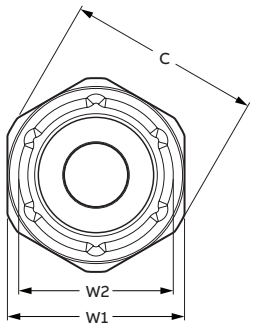
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70 (ANSI)

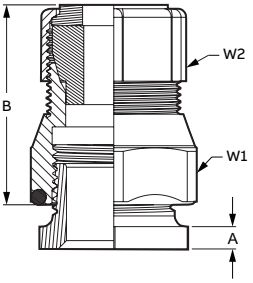
Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6 (With 5262 Series sealing rings)	Steel/Zinc construction
	Neoprene sealing ring
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

DImensions





NPT thread	Part no.	NPT thread	Cable size Min. (mm/in)	Cable size Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2631	1/2"	3.18	6.35	3.18	38.10	30.99	28.58	22.86
			0.125	0.250	0.125	1.500	1.220	1.125	0.900
	2632	1/2"	6.35	9.53	3.18	38.10	30.99	28.58	22.86
			0.250	0.375	0.125	1.500	1.220	1.125	0.900
	2633	1/2"	9.53	12.70	3.18	38.10	30.99	28.58	22.86
			0.375	0.500	0.125	1.500	1.220	1.125	0.900
	2634	1/2"	11.43	14.22	3.18	41.28	30.99	28.58	22.86
			0.450	0.560	0.125	1.625	1.220	1.125	0.900
	2637	3/4"	3.18	6.35	4.76	39.69	38.86	34.93	31.12
			0.125	0.250	0.188	1.563	1.530	1.375	1.225
	2638	3/4"	6.35	9.53	4.76	39.69	38.86	34.93	31.12
			0.250	0.375	0.188	1.563	1.530	1.375	1.225
	2639	3/4"	9.53	12.70	4.76	39.69	38.86	34.93	31.12
			0.375	0.500	0.188	1.563	1.530	1.375	1.225
	2640	3/4"	12.70	15.88	4.76	39.69	38.86	34.93	31.12
			0.500	0.625	0.188	1.563	1.530	1.375	1.225
	2641	3/4"	15.88	19.05	4.76	39.69	38.86	34.93	31.12
			0.625	0.750	0.188	1.563	1.530	1.375	1.225
	2646	1"	12.70	15.88	4.76	41.28	46.02	41.28	31.12
			0.500	0.625	0.188	1.625	1.812	1.625	1.225
	2647	1"	15.88	19.05	4.76	41.28	46.02	41.28	31.12
			0.625	0.750	0.188	1.625	1.812	1.625	1.225
	2648	1"	19.05	22.35	4.76	41.28	46.02	41.28	31.12
			0.750	0.880	0.188	1.625	1.812	1.625	1.225

General purpose multi hole cable glands

MSG-M Series



Features and benefits:

- Multi conductor clamping feature
- Full length bushing seal, protects cable
- Multi hole bushing options

MSG-M - General purpose Multi Hole cable glands

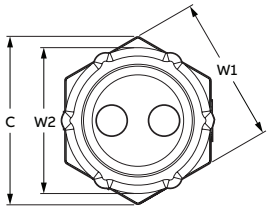
Approvals & certifications	Conformity Conforms to:
	UL514B

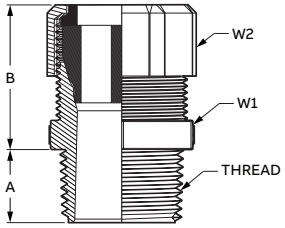
Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6 (With 5262 Series sealing rings)	Steel/Zinc construction
	Neoprene sealing ring
Wet and dry locations	Nylon or stainless steel retaining ring

Fire
NFPA 70 (ANSI)

DImensions





NPT thread	Part no.	NPT thread	No. of Holes	Cord Diameter	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2520-2	1/2"	2	5.59	15.62	27.23	28.58	25.40	26.21
				0.220	0.615	1.072	1.125	1.000	1.032
	2530-2	3/4"	2	5.59	15.93	28.52	32.99	25.40	31.12
				0.220	0.627	1.123	1.299	1.000	1.225
	2531-2	3/4"	2	6.60	15.93	28.52	36.65	25.40	31.12
				0.260	0.627	1.123	1.443	1.000	1.225
	2531-3	3/4"	3	6.60	15.93	28.52	36.65	25.40	31.12
				0.260	0.627	1.123	1.443	1.000	1.225
	2541-2*	1"	2	7.62	20.04	23.62	41.28	38.10	37.97
				0.300	0.789	0.930	1.625	1.500	1.495
	2542-2*	1"	2	9.53	20.04	23.62	41.28	38.10	37.97
				0.560	0.789	0.930	1.625	1.500	1.495
	2540-3	1"	3	5.72	20.04	23.62	41.28	38.10	37.97
				0.225	0.789	0.930	1.625	1.500	1.495
	2541-3	1"	3	7.62	20.04	23.62	41.28	38.10	37.97
				0.300	0.789	0.930	1.625	1.500	1.495
	2540-4	1"	4	5.59	20.04	23.62	41.28	38.10	37.97
				0.220	0.789	0.930	1.625	1.500	1.495
	2555-2	1 1/4"	2	12.70	20.42	39.93	53.16	49.20	48.54
				0.804	0.804	1.572	2.093	1.937	1.911

304 Stainless Steel, general purpose, corrosion resistant cable glands

SSG Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- High Corrosion Resistance
- Straight, and 90 options
- Full length bushing seal, protects cable

SSG Series -General purpose, corrosion resistant cable glands

Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70 (ANSI)

Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA Type 4x or 6	Stainless steel 304 construction
(With 5262 Series sealing rings)	Thermoplastic elastomer sealing
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

DImensions

			Cable size		Nominal dimensions (mm/in)				
NPT thread	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2920SST	1/2"	3.18	9.53	15.49	33.66	32.99	28.58	28.58
			0.125	0.375	0.610	1.325	1.299	1.125	1.125
	2921SST	1/2"	7.87	14.22	15.49	33.66	32.99	28.58	28.58
			0.310	0.560	0.610	1.325	1.299	1.125	1.125
	2922SST	1/2"	12.70	19.05	15.49	35.38	36.65	28.58	31.75
			0.500	0.750	0.610	1.393	1.443	1.125	1.250
	2930SST	3/4"	3.18	9.53	16.00	36.40	36.65	31.75	31.75
			0.125	0.375	0.630	1.433	1.443	1.250	1.250
	2931SST	3/4"	7.87	14.22	16.00	36.40	36.65	31.75	31.75
			0.310	0.560	0.630	1.433	1.443	1.250	1.250
	2932SST	3/4"	12.70	19.05	16.00	36.40	36.65	31.75	31.75
			0.500	0.750	0.630	1.433	1.443	1.250	1.250
	2940SST	1"	7.87	14.22	19.94	35.38	43.99	38.10	31.75
			0.310	0.560	0.785	1.393	1.732	1.500	1.250
	2941SST	1"	12.70	19.05	19.94	35.38	43.99	38.10	31.75
			0.500	0.750	0.785	1.393	1.732	1.500	1.250
	2942SST	1"	17.78	24.13	19.94	36.40	43.99	38.10	38.10
			0.700	0.950	0.785	1.433	1.732	1.500	1.500

Aluminum cable glands for general purpose

ASG Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable

ASG Series - Aluminum cable glands

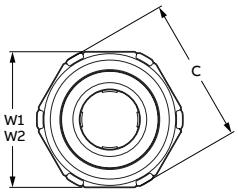
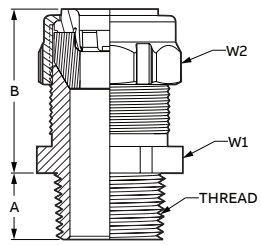
Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70-1978 (ANSI)

Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA 3R, 4, 6, 13	Aluminium construction
(With 5262 Series sealing rings)	Thermoplastic elastomer sealing
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70 (ANSI)

DImensions

NPT	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	2920AL	1/2"	3.18	9.53	15.56	32.69	34.24	25.40	29.64
			0.125	0.375	0.613	1.287	1.348	1.000	1.167
	2921AL	1/2"	7.87	14.22	15.56	32.69	34.24	25.40	29.64
			0.310	0.560	0.613	1.287	1.348	1.000	1.167
	2922AL	1/2"	12.70	19.05	15.56	28.89	37.47	31.75	32.44
			0.500	0.750	0.613	1.138	1.475	1.250	1.277
	2930AL	3/4"	3.18	9.53	15.94	34.10	37.47	31.75	32.44
			0.125	0.375	0.628	1.343	1.475	1.250	1.277
	2931AL	3/4"	7.87	14.22	15.94	34.10	37.47	31.75	32.44
			0.310	0.560	0.628	1.343	1.475	1.250	1.277
	2932AL	3/4"	12.70	19.05	15.94	34.10	37.47	31.75	32.44
			0.500)	0.750	0.628	1.343	1.475	1.250	1.277
	2940AL	1"	7.87	14.22	20.04	34.57	41.66	38.10	31.17
			0.310)	0.560	0.789	1.361	1.640	1.500	1.227
	2941AL	1"	12.70	19.05	20.04	34.57	41.66	38.10	32.44
			0.500	0.750	0.789	1.361	1.640	1.500	1.277
	2942AL	1"	17.78	24.13	20.04	41.40	44.73	38.10	38.74
			0.700	0.950)	0.789	1.630	1.761	1.500	1.525

Aluminum 90˚elbow cable glands for general purpose

ASG Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Elbow construction for compact installations

ASG Series - Aluminum 90˚elbow cable glands

Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3
	ANSI C33.84
	NFPA 70-1978 (ANSI)

Temperature range
Normal use: –20°C to 105°C (–4°F to 221°F)

IP Rating	Material
NEMA 3R, 4, 6, 13	Aluminium construction
(With 5262 Series sealing rings)	Thermoplastic elastomer sealing
Wet and dry locations	Nylon retaining ring

Fire
NFPA 70-1978 (ANSI)

DImensions

			Cable range		Nominal dimensions (mm/in)				
NPT	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	4960AL	1/2"	3.18	9.53	17.48	44.45	30.18	27.00	29.64
			0.125	0.375	0.688	1.750	1.188	1.063	1.167
	4961AL	1/2"	9.14	14.22	17.48	44.45	30.18	27.00	29.64
			0.360	0.560	0.613	1.750	1.188	1.063	1.167
	4970AL	3/4"	3.18	9.53	17.27	45.24	38.38	33.50	32.44
			0.125	0.375	0.680	1.781	1.511	1.319	1.277
	4971AL	3/4"	7.87	14.22	17.27	45.24	38.38	33.50	32.44
			0.310	0.560	0.680	1.781	1.511	1.319	1.277
	4972AL	3/4"	12.70	19.05	17.27	45.24	38.38	33.50	32.44
			0.500	0.750	0.680	1.781	1.511	1.319	1.277
	4980AL	1"	7.87	14.22	19.84	51.59	45.82	39.70	32.44
			0.310	0.560	0.781	2.031	1.475	1.250	1.277
	4981AL	1"	12.70	19.05	19.84	51.59	45.82	39.70	32.44
			0.500	0.750	0.789	2.031	1.475	1.250	1.277
	4982AL	1"	17.78	24.13	20.65	68.28	39.70	39.70	38.74
			0.700	0.950	0.813	2.688	1.563	1.563	1.525

Wire mesh grips, used with the MSG and ASG series cable glands

WMG-PC Series



Features and benefits:

- Prevents severe cord bends and pullouts
- Used in aluminum or steel cable glands

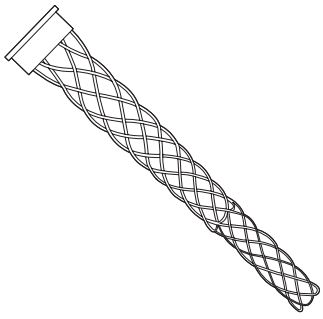
WMG-PC Series - Wire mesh grips,

Approvals & certifications	Conformity Conforms to:
	UL514B
	CSA C22.2-18.3

Temperature range
Refer to the cable gland used

IP Rating	Material
Refer to the cable gland used	Wire mesh made of stainless steel
	Aluminum retaining ring

DImensions



NPT	Part no.	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Straight ASG	Straight MSG	45° MSG-45	90° ASG-90	90° MSG-90
	WMG-PC1	4.75	6.35	2920AL	2520	2200	4960AL	2267
		0.187	0.250					
	WMG-PC2	6.35	9.53	2920AL	2521	2201	4960AL	2268
		0.250	0.375					
	WMG-PC3	9.53	12.70	2921AL	2522	2202	4961AL	2269
		0.375	.500					
	WMG-PC4	12.70	15.88	2922AL	2524	2204	4962AL	2250
		0.500	0.625	2932AL	2534	2209	4972AL	2273
				2941AL	2544	2214	4681AL	2255
	WMG-PC5	15.88	19.05	2922AL	2525	2205	4962AL	2251
		0.625	0.750	2932AL	2535	2210	4972AL	2274
				2941AL	2545	2215	4681AL	2256
	WMG-PC6	4.75	6.35	2930AL	2530	2206	4970AL	2252
		0.187	0.250					
	WMG-PC7	6.35	9.53	2930AL	2531	2207	4970AL	2271
		0.250	0.375		2541			
	WMG-PC8	9.53	12.70	2931AL	2532	2208	4961AL	2272
		0.250	0.375	2940AL	2542	2213	4980AL	2254
	WMG-PC9	19.05	22.22	2942AL	2536	2211	4982AL	2253
		0.750	0.875		2546	2216		2275

Wire mesh grips, used with the MSG and ASG series cable glands

WMG-PC Series

Dimensions



NPT	Part no.	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Straight ASG	Straight MSG	45° MSG-45	90° ASG-90	90° MSG-90
	WMG-PC10	22.22	25.40	–	2547	2217	–	2276
		0.875	1.000					
	WMG-PC11	22.22	25.40	–	2548	2218	–	2257
		0.875	1.000		2558			2277
	WMG-PC12	25.40	25.58	–	2548	2218	–	2257
		1.000	1.125		2558	2219		2277
					2549			2258
					2559			2278
	WMG-PC13	28.58	31.75	–	2549	–	–	2219
		1.125	1.250		2559			2278
	WMG-PC14	28.58	31.75	–	2556	–	–	2222
		1.125	1.250		2563			2282
					2564			2283
	WMG-PC15	31.75	34.93	–	2564	2222	–	2256
		1.250	1.375					2283
	WMG-PC16 *	34.93	38.10	–	2557	2223	–	2280
		1.375	1.500					
	WMG-PC17 *	28.58	31.75	–	2573	–	–	2284
		1.125	1.250					
	WMG-PC18 *	31.75	34.93	–	2573	–	–	2284
		1.250	1.375					
	WMG-PC19 *	34.93	38.10	–	2565	–	–	2285
		1.375	1.500		2574			
	WMG-PC20 *	31.10	41.28	–	2565	–	–	2285
		1.500	1.625		2574			
	WMG-PC21 *	41.28	44.45	–	2575	–	–	2286
		1.625	1.750					
	WMG-PC22 *	44.45	47.63	–	2575	–	–	2286
		1.750	1.875					

Rail Specific
Cable glands

ABB cable glands comply to the latest European safety standard EN45545 and achieve the highest fire performance HL3 rating for both interior and exterior locations, suitable for rail vehicle and infrastructure usage. This range of cable glands can be installed anywhere where low smoke and toxicity combined with wide temperature characteristics, versatile cable clamping and resistance to oils and chemicals may be required.

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For more than 30 years we have worked with the foremost manufacturers and suppliers of public transportation systems throughout the world. We understand not just the standards that you need to work to, but also the industry issues that you face including your customer service delivery expectations.

Our systems perform in a wide variety of environments from high temperature to freezing subzero conditions, as well as withstanding constant vibrations, water ingress, offer corrosion resistance. They are also available in halogen free, low smoke and low toxicity materials. If your project involves rail stations, infrastructure, signalling, tunnels, surveillance or data and information systems, our experience can help you.

Product examples
- RBCG Series – Rail Brass Cable Glands
- RNCG Series – Rail Nylon Cable Gland
- RBSG Series – Rail Stackable Nickel Plated Brass

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Nylon cable glands - rail specific EN45545

RNCG Series



Features and benefits:

- EN45545-2 Compliant HL3 for R22 and R23 usage
- Lightweight nylon construction
- Large capacity sealing range
- Corrosion resistant

RNCG Series - Nylon cable glands

Approvals & certifications	Conformity Conforms to:
CE	EN 45545-2, HL3 (R22 and R23)
	EN 62444

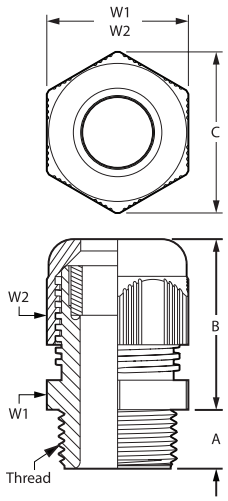
Temperature range
Normal use: –40°C to +100°C (–40°F to +212°F)
Short Term: –40°C to +120°C (–40°F to +248°F)

IP Rating
IP66
IP68 (5-Bar 30 mins)
IP69

Material
All materials EN 45545-2 compliant to HL3 for category R22 and R23 use
Low smoke zero halogen EPDM seals
Low smoke zero halogen nylon body and cap

Fire
EN 45545-2 HL3

DImensions

Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	RNCG-M122	M12x1.5	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	RNCG-M163-S	M16x1.5	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	RNCG-M163	M16x1.5	4.0	8.0	10.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.394	1.043	0.862	0.748	0.748
	RNCG-M164	M16x1.5	5.0	10.0	10.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.394	1.181	0.984	0.866	0.866
	RNCG-M164-L	M16x1.5	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.591	1.181	0.984	0.866	0.866
	RNCG-M202	M20x1.5	6.0	12.0	10.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.181	1.063	1.945	1.945
	RNCG-M202x-L	M20x1.5	6.0	12.0	15.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.591	1.181	1.063	1.945	1.945
	RNCG-M205	M20x1.5	10.0	14.0	10.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.394	1.319	1.22	1.063	1.063
	RNCG-M205-L	M20x1.5	10.0	14.0	15.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.591	1.319	1.22	1.063	1.063
	RNCG-M254	M25x1.5	13.0	18.0	10.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.394	1.496	1.496	1.299	1.299

Nylon cable glands - rail specific EN45545

RNCG Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	RNCG-M254-L	M25x1.5	13.0	18.0	18.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.709	1.496	1.496	1.299	1.299
	RNCG-M324-L	M32x1.5	18.0	25.0	15.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.591	1.654	1.862	1.654	1.654
	RNCG-M404x	M40x1.5	22.0	32.0	18.0	52.0	60.0	53.0	53.0
			0.866	1.26	0.709	2.047	2.362	2.087	2.087

Brass cable glands - rail specific EN45545

RBCG Series



RBCG Series - Brass cable glands

Features and benefits:

- EN45545-2 Compliant HL3 for R22 and R23 usage
- Robust metallic construction
- Large capacity sealing range

Approvals & certifications	Conformity Conforms to:
CE	EN 45545-2, HL3 (R22 and R23)
	EN 62444

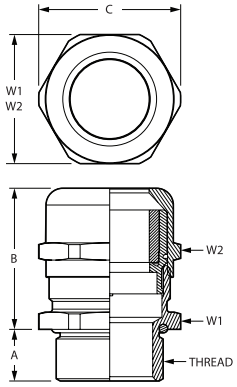
Temperature range
Normal use: –40°C to +100°C (–40°F to +212°F)
Short Term: -40°C to +120°C (-40°F to +248°F)

IP Rating
IP66
IP68 (5-Bar 30 mins)
IP69

Fire
EN 45545-2 HL3

Material
All materials EN 45545-2 compliant to HL3 for category R22 and R23 use
Nickel plated brass body and cap
Low smoke zero halogen EPDM seals
Low smoke zero halogen nylon body and cap

Dimensions



Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	RBCG-M122	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.61	0.551	0.551
	RBCG-M122-S	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.61	0.551	0.551
	RBCG-M163	M16x1.5	4.0	8.0	12.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.472	0.906	0.787	0.709	0.669
	RBCG-M163-S	M16x1.5	4.0	8.0	7.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.276	0.906	0.787	0.709	0.669
	RBCG-M164	M16x1.5	5.0	10.0	12.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.472	1.122	0.866	0.787	0.787
	RBCG-M164-S	M16x1.5	5.0	10.0	7.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.276	1.122	0.866	0.787	0.787
	RBCG-M202	M20x1.5	6.0	12.0	12.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.472	1.024	0.965	0.866	0.866
	RBCG-M202-S	M20x1.5	6.0	12.0	8.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.315	1.024	0.965	0.866	0.866
	RBCG-M204	M20x1.5	10.0	14.0	12.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.472	1.102	1.055	0.945	0.945
	RBCG-M204-S	M20x1.5	10.0	14.0	8.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.315	1.102	1.055	0.945	0.945

Brass cable glands - rail specific EN45545

RBCG Series

DImensions

Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	RBCG-M254	M25x1.5	13.0	18.0	12.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.709	1.299	1.299	1.181	1.181
	RBCG-M254-S	M25x1.5	13.0	18.0	8.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.315	1.299	1.299	1.181	1.181
	RBCG-M325	M32x1.5	18.0	25.0	15.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.591	1.732	1.752	1.575	1.575
	RBCG-M325-S	M32x1.5	18.0	25.0	9.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.354	1.732	1.752	1.575	1.575
	RBCG-M405	M40x1.5	22.0	32.0	15.0	52.5	55.5	50.0	50.0
			0.866	1.26	0.591	2.067	2.185	1.185	1.969
	RBCG-M404x	M40x1.5	22.0	32.0	9.0	52.5	55.5	50.0	50.0
			0.866	1.26	0.354	2.067	2.185	1.185	1.185

Stackable brass cable gland - rail specific EN45545

RBSG Series



Features and benefits:

- EN45545-2 Compliant HL3 for R22 and R23 usage
- Robust metallic construction
- Multiple seal bushings for wide clamping range

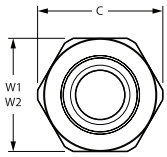
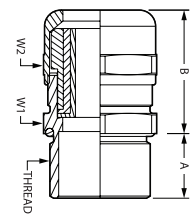
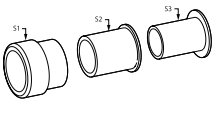
RBSG Series - Brass cable glands

Approvals & certifications	Conformity Conforms to:
CE	EN 45545-2, HL3 (R22 and R23)
	EN 62444

Temperature range
Normal use: –50°C to +125°C (–40°F to +257°F)
Short Term: –50°C to +140°C (–40°F to +284°F)

IP Rating	Material
IP66	All materials EN 45545-2 compliant to HL3 for category R22 and R23 use
IP68 (5-Bar 30 mins)	
IP69	Nickel plated brass body and cap
Fire	
EN 45545-2 HL3	

Dimensions

			Cable range (mm/in)		Seals range (mm/in)						Nominal dimensions (mm/in)				
					S1		S2		S3						
Metric thread	Part no.	Metric thread	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	A Min	B Min	C Min	W1	W2
	RBSG-M201	M20x1.5	4.0	12.0	9.0	12.0	6.0	9.0	4.0	6.0	9.0	27.0	24.5	22.0	22.0
			0.157	0.472	0.354	0.472	0.236	0.354	0.157	0.236	0.354	1.063	0.965	0.866	0.866
	RBSG-M202	M20x1.5	10.0	16.0	14.5	16.0	12.0	14.5	10.0	12.0	9.0	30.0	31.0	28.0	28.0
			0.394	0.630	0.571	0.630	0.472	0.571	0.394	0.472	0.354	1.181	1.220	1.102	1.102
	RBSG-M251	M25x1.5	4.0	12.0	9.0	12.0	6.0	9.0	4.0	6.0	9.0	27.0	31.0	28.0	22.0
			0.157	0.472	0.354	0.472	0.236	0.354	0.157	0.236	0.354	1.063	1.220	1.102	0.866
	RBSG-M252	M25x1.5	10.0	18.0	14.5	18.0	12.0	14.5	10.0	12.0	9.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.571	0.709	0.472	0.571	0.394	0.472	0.354	1.201	1.220	1.102	1.102
	RBSG-M321	M32x1.5	10.0	18.0	14.5	18.0	12.0	14.5	10.0	12.0	9.0	30.5	39.0	35.0	28.0
			0.394	0.709	0.571	0.709	0.472	0.571	0.394	0.472	0.354	1.201	1.535	1.378	1.102
	RBSG-M322	M32x1.5	14.0	24.0	20.0	24.0	17.0	20.0	14.0	17.0	9.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	0.945	0.669	0.787	0.551	0.669	0.354	1.299	1.535	1.378	1.378
	RBSG-M323	M32x1.5	22.0	28.0	27.0	28.0	24.0	27.0	22.0	24.0	9.0	41.0	49.5	45.0	45.0
			0.866	1.102	1.063	1.102	0.945	1.063	0.866	0.945	0.354	1.614	1.949	1.772	1.772
	RBSG-M401	M40x1.5	14.0	24.0	20.0	24.0	17.0	20.0	14.0	17.0	9.0	33.0	50.0	45.0	35.0
			0.551	0.945	0.787	0.945	0.669	0.787	0.551	0.669	0.354	1.299	1.969	1.772	1.378
	RBSG-M402	M40x1.5	22.0	32.0	27.0	32.0	24.0	27.0	22.0	24.0	9.0	40.5	49.5	45.0	45.0
			0.866	1.260	1.063	1.260	0.945	1.063	0.866	0.945	0.354	1.594	1.949	1.772	1.772
	RBSG-M501	M50x1.5	26.0	35.0	31.0	35.0	28.0	31.0	26.0	28.0	9.0	43.5	61.0	55.0	50.0
			1.024	1.378	1.220	1.378	1.102	1.220	1.024	1.102	0.354	1.713	2.402	2.165	1.969
	RBSG-M502	M50x1.5	35.0	44.0	41.0	44.0	38.0	41.0	35.0	38.0	9.0	43.0	70.0	64.0	64.0
			1.378	1.732	1.614	1.732	1.496	1.614	1.378	1.496	0.354	1.693	2.756	2.520	2.520

Food and Beverage
Cable glands

Hygienic, corrosion-resistant cable glands from ABB provide rigorous, dependable electrical connections for food processing machinery and preparation stations.

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01 Food processing - Explosion proof (Dust)
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02 Beverage manufacture - Explosion proof (Vapour)

Along with other products in the ABB electrical connection portfolio, ABB's high quality cable glands can help extend the life of electrical systems in a food and beverage plant's challenging environments while reducing system changeover and downtimes. With high ingress protection ratings and corrosion-resistant stainless steel or nylon construction, ABB glands can withstand a plant's toughest challenges, even in areas that require frequent washdowns.

Products that are particularly attractive to food and beverage processors include the NSF approved FSCG stainless steel gland series, allowing the safe termination of cables into equipment, and the NSF approved FSEM stainless steel EMC gland series, where grounding continuity for a shielded cable is required. Both are IP rated to IP69.

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Stainless steel cable glands - NSF approved food and beverage cable glands

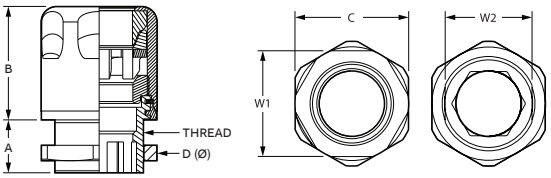
FSCG Series



FSCG Series - NSF approved cable glands

Features and benefits:

- Smooth hygienic external casing
- One piece, fully enclosed
- Suitable for splash zones
- Corrosion resistant



Approvals & certifications	Conformity Conforms to:
	NSF - 169-2012
	UL514B / CSA C22.2 No 18.3

Temperature range
Normal use: –20°C to +100°C (–40°F to +212°F)
Short Term: –40°C to +150°C (–40°F to +302°F)

IP Rating	Material
IP66	Stainless Steel construction
IP68 (5-Bar 30 mins)	FDA Compliant EPDM Seals
IP69 (Steam cleaning)	

Dimensions

			Cable range		Nominal dimensions (mm/in)					
Metric thread	Part no.	Metric thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSCG-M121	M12x1.5	3.0	6.5	6.0	21.3	15.6	16.5	14.0	10.0
			0.118	0.256	0.236	0.839	0.614	0.650	0.551	0.394
	FSCG-M161	M16x1.5	5.0	10.0	7.0	23.1	20.2	21.0	18.0	14.0
			0.197	0.394	0.276	0.909	0.795	0.827	0.709	0.551
	FSCG-M201	M20x1.5	6.0	12.0	10.0	26.7	24.1	26.4	22.0	18.0
			0.236	0.472	0.394	1.051	0.949	1.039	0.866	0.709
	FSCG-M251	M25x1.5	12.0	17.0	14.0	29.1	30.1	33.0	28.0	23.0
			0.472	0.669	0.551	1.146	1.185	1.299	1.102	0.906

			Cable range		Nominal dimensions (mm/in)					
NPT thread	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSCG-0381	3/8"	3.0	6.5	15.26	21.2	20.2	26.5	18.0	14.0
			0.118	0.256	0.601	0.835	0.795	1.043	0.709	0.551
	FSCG-0382	3/8"	5.0	10.0	15.26	23.7	24.1	26.5	22.0	14.0
			0.197	0.394	0.601	0.933	0.949	1.043	0.866	0.551
	FSCG-0501	1/2"	6.0	12.0	19.85	28.0	30.1	26.5	28.0	18.0
			0.236	0.472	0.781	1.102	1.185	1.043	1.102	0.709
	FSCG-0751	3/4"	12.0	17.0	20.15	31.6	38.0	39.0	35.0	23.0
			0.472	0.669	0.793	1.244	1.496	1.535	1.378	0.906

Stainless steel cable glands - EMC NSF approved food and beverage cable glands

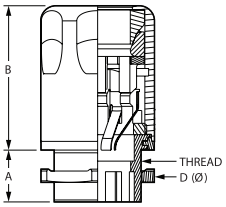
FSEM Series

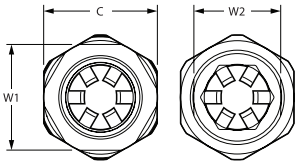


FSEM Series - NSF approved cable glands

Features and benefits:

- Smooth hygienic external casing
- One piece, fully enclosed
- Internal continuity contacts
- Corrosion resistant
- Extended radial contact with the shielding for improved EMI protection





Approvals & certifications	Conformity Conforms to:
	NSF - 169-2012
	UL514B / CSA C22.2 No 18.3

Temperature range
Normal use: –20°C to +100°C (–8°F to +212°F)
Short Term: –40°C to +150°C (–40°F to +302°F)

IP Rating	Material
IP66	Stainless Steel construction
IP67	FDA Compliant EPDM Seals
IP68 (5-Bar 30 mins)	
IP69 (Steam Cleaning)	

Dimensions

			Cable range		Nominal dimensions (mm/in)					
Metric thread	Part no.	Metric thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSEM-M161	M16x1.5	5.0	10.0	7.0	28.1	20.2	21.0	18.0	14.0
			0.197	0.394	0.276	1.106	0.795	0.827	0.709	0.551
	FSEM-M201	M20x1.5	6.0	12.0	10.0	32.7	24.1	26.5	22.0	18.0
			0.236	0.472	0.394	1.287	0.949	1.043	0.866	0.709
	FSEM-M251	M25x1.5	12.0	17.0	14.0	37.9	30.1	33.0	28.0	23.0
			0.472	0.669	0.551	1.492	1.185	1.299	1.102	0.906

			Cable range		Nominal dimensions (mm/in)					
NPT thread	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSEM-0381	3/8"	5.0	10.0	15.26	28.6	24.1	26.5	22.0	14.0
			0.197	0.394	0.601	1.126	0.949	1.043	0.866	0.551
	FSEM-0501	1/2"	6.0	12.0	19.85	33.2	30.1	26.5	28.0	18.0
			0.236	0.472	0.781	1.307	1.185	1.043	1.102	0.709
	FSEM-0751	3/4"	12.0	17.0	20.15	39.1	38.0	39.0	35.0	23.0
			0.472	0.669	0.793	1.539	1.496	1.535	1.378	0.906

Hazardous area
Cable glands

ABB products protect critical data and power cables in hazardous areas onshore and offshore.

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01 C1 Series
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02 ISR Series
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03 STEX Series

Whether it is data cables from a gas detector or the cable protection on a power transmission unit, ABB hazardous area cable glands are designed and manufactured to meet the demands of rigorous and arduous operating environments in addition to ATEX and IECEx standards.

ABB's hazardous area cable glands are suitable for use with a range of cable types on applications such as:

- Skids
- Control boxes
- Motors
- Lighting

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Product examples

Cable type	Standard gland	Barrier gland
Non armored	**EXCG** (Non-metallic)	**C4** Series
	C2 Series	
	ISR (Mechanical grip)	
	C3 Series	
Wire armored	**C1 Series** (Double compression)	**C5** Series
MC armored	**ST**	**STX**
	STE (High range)	
EMC	**C6 Series**	
Flat	**C2F Series** (Heat trace)	
	C6F Series (Heat trace)	

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HAZARDOUS AREA CABLE GLANDS

ABB hazardous area cable glands are designed and manufactured to meet the demands of rigorous and arduous operating environments.



Cable glands for hazardous areas

Selection guide

Selection guide



						Non-armored cable types		Armored cable types	
Type	**EXCG**	**C2/C2F**	**C3**	**C6/C6F**	**C4**	**ISR**	**TCF**	**C1**	**C5**
General									
Commercial Building	–	–	–	–	–	•	•	–	–
Residential Building	–	–	–	–	–	–	•	–	–
Industrial MRO	–	–	–	–	–	•	•	•	–
Low Ingress	–	–	–	–	–	–	–	–	–
OEM									
General Applications	•	–	–	–	–	–	•	–	–
Industrial Machinery	•	•	–	–	–	•	•	•	–
Commerical Machinery	–	–	–	–	–	•	–	–	–
Panel Building	•	•	–	–	–	–	•	–	–
Lighting	•	•	–	–	–	–	–	–	–
Rail									
Traction - Exterior	–	–	–	–	–	–	–	–	–
Traction - Interior	–	–	–	–	–	–	–	–	–
Infrastructure - Exterior	–	–	–	–	–	–	–	–	–
Infrastructure - Interior	–	–	–	–	–	–	–	–	–
Automation									
Robotics	–	•	–	•	–	–	–	–	–
Control systems	–	•	–	•	–	–	–	–	–
Enclosures and Motors	–	•	–	•	–	–	–	–	–
Marine									
General Applications	•	•	•	•	•	•	–	•	•
Outdoor Applications	•	•	•	•	•	•	–	•	•
Passenger/Crew Areas	•	•	•	•	•	•	–	•	•
Oil and Gas									
IEC standards	•	•	•	•	•	•	–	•	•
NEC Standards	–	•	–	•	–	•	•	•	–
Other									
Solar	–	–	–	–	–	–	–	–	–
Food and Beverage	–	•	–	–	–	–	–	•	–
Chemical Plants	–	•	•	•	–	•	–	•	–
Data Centres	–	–	–	•	–	•	•	–	–
Waste Water Management	–	•	•	•	•	•	–	•	•
Page No.	**64**	**65/68**	**70**	**72/75**	**77**	**79**	**81**	**83**	**86**




Metal clad cable types					Accessories				
ST	STE	STED	STX	STEX	Stopping Plugs	Ex Stopping Plugs	Thread Adaptors	Ex Thread Adaptors	Ex Drain Valves
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87	89	90	91	93	94	96	99	101	102

Ex e Nylon cable glands for hazardous areas

EXCG Series



Features and benefits:

- Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Can be used for Ex ia intrinsically safe, with blue cap

EXCG Series - Nylon cable glands

Approvals & certifications	Conformity Conforms to:
	EN/IEC: 60079-0, 60079-7, 60079-34, 62444
	ATEX: IMQ13ATEX016X
	IECEx: IECEx IMQ 13.0005X
	⟨Ex⟩ II 2 GD, Ex e IIC Gb, Ex tb IIIC Db

Temperature range
Operating range: –40°C to +80°C

IP Rating	Material
IP66	Nylon
IP68	

Dimensions

Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	W1	W2
	EXCGM20S	M20	6.0	12.0	10.0	40.0	24.0	24.0
			0.236	0.472	0.393	1.574	0.944	0.944
	EXCGM20SL	M20	6.0	12.0	15.0	45.0	24.0	24.0
			0.236	0.472	0.590	1.771	0.944	0.944
	EXCGM20M	M20	10.0	14.0	10.0	42.0	27.0	27.0
			0.393	0.551	0.393	1.653	1.062	1.062
	EXCGM20ML	M20	10.0	14.0	15.0	50.0	27.0	27.0
			0.393	0.551	0.590	1.968	1.062	1.062
	EXCGM25S	M25	13.0	18.0	10.0	47.0	33.0	33.0
			0.511	0.708	0.393	1.850	1.299	1.299
	EXCGM25SL	M25	13.0	18.0	15.0	50.0	33.0	33.0
			0.511	0.708	0.590	1.968	1.299	1.299
	EXCGM25M	M25	11.0	17.0	8.0	42.5	29.0	29.0
			0.433	0.669	0.314	1.673	1.141	1.141
	EXCGM32S	M32	15.0	21.0	10.0	50.0	36.0	36.0
			0.590	0.826	0.393	1.968	1.417	1.417
	EXCGM32M	M32	18.0	25.0	15.0	68.0	42.0	42.0
			0.708	0.984	0.590	2.677	1.653	1.653
	EXCGM40S	M40	19.0	28.0	10.0	55.0	46.0	46.0
			0.748	1.102	0.393	2.165	1.811	1.811
	EXCGM40M	M40	22.0	32.0	18.0	68.0	53.0	53.0
			0.866	1.259	0.708	2.677	2.086	2.086
	EXCGM50S	M50	30.0	38.0	18.0	73.0	60.0	60.0
			1.181	1.496	0.708	2.874	2.362	2.362
	EXCGM63S	M63	34.0	44.0	18.0	74.0	65.0	65.0
			1.338	1.732	0.708	2.913	2.559	2.559

Ex d e Non-armored cable glands for hazardous areas

C2 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Wide cable range
- Deluge proof

Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

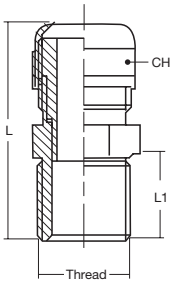
C2 Series - Ex d e single compression cable glands

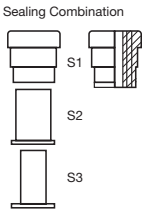
Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	UL514B, UL2225
	ATEX: IMQ14ATEX013X
	IECEx: IECEx IMQ 14.0005X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1696X
	DNV: TAE00000Y3
	UL: E477121
	Ⓔ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db
	Class 1 Zone 1 AEx e IIC

Temperature range
Operating range: –40°C to +100°C (–40°F to +212°F)

IP Rating	Material
IP66	Nickel plated brass
IP68 (5-Bar 30 mins)	Stainless steel 316

DImensions





Metric thread	Part no.	Metric thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03MMC2	M16x1.5	4.0	12.0	16.0	31.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.22	0.945	0.866	0.866
	EXN04MSC2	M20x1.5	3.0	9.0	16.0	27.0	24.0	22.0	20.0
			0.118	0.354	0.63	1.063	0.945	0.866	0.787
	EXN04MMC2	M20x1.5	4.0	12.0	16.0	27.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.063	0.945	0.866	0.866
	EXN04MLC2	M20x1.5	10.0	16.0	16.0	30.0	31.0	28.0	28.0
			0.394	0.63	0.63	1.181	1.22	1.102	1.102
	EXN05MMC2	M25x1.5	10.0	18.0	16.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.63	1.201	1.22	1.102	1.102
	EXN05MLC2	M25x1.5	14.0	20.0	16.0	34.0	39.0	35.0	35.0
			0.551	0.787	0.63	1.339	1.535	1.378	1.378
	EXN06MMC2	M32x1.5	14.0	24.0	16.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.63	1.299	1.535	1.378	1.378
	EXN06MLC2	M32x1.5	22.0	28.0	16.0	41.0	50.0	45.0	45.0
			0.866	1.102	0.63	1.614	1.969	1.772	1.772
	EXN07MMC2	M40x1.5	22.0	32.0	18.0	41.0	50.0	45.0	45.0
			0.866	1.26	0.709	1.614	1.969	1.772	1.772

Ex d e Non-armored cable glands for hazardous areas

C2 Series

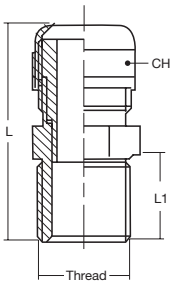
Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN07MLC2	M40x1.5	26.0	34.0	18.0	44.0	55.5	50.0	50.0
			1.024	1.339	0.709	1.732	2.185	1.969	1.969
	EXN08MSC2	M50x1.5	26.0	35.0	18.0	44.0	61.0	55.0	50.0
			1.024	1.378	0.709	1.732	2.402	2.165	1.969
	EXN08MMC2	M50x1.5	35.0	44.0	18.0	43.0	70.0	64.0	64.0
			1.378	1.732	0.709	1.693	2.756	2.52	2.52
	EXN09MSC2	M63x1.5	35.0	45.0	18.0	43.0	75.0	68.0	64.0
			1.378	1.772	0.709	1.693	2.953	2.677	2.52
	EXN09MMC2	M63x1.5	46.0	56.0	18.0	52.5	89.0	75.0	80.0
			1.811	2.205	0.709	2.067	3.504	2.953	3.15
	EXN10MSC2	M75x1.5	46.0	62.0	20.0	52.0	89.0	80.0	80.0
			1.811	2.441	0.787	2.047	3.504	3.15	3.15
	EXN10MMC2	M75x1.5	60.0	69.0	20.0	55.0	105.0	95.0	95.0
			2.362	2.717	0.787	2.165	4.134	3.74	3.74
	EXN11MSC2	M90x1.5	60.0	75.0	20.0	55.0	105.0	95.0	95.0
			2.362	2.953	0.787	2.165	4.134	3.74	3.74
	EXN11MMC2	M90x1.5	75.0	82.0	20.0	55.0	117.0	105.0	105.0
			2.953	3.228	0.787	2.165	4.606	4.134	4.134

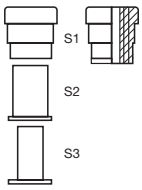
Ex d e Non-armored cable glands for hazardous areas

C2 Series

Dimensions



Sealing Combination



NPT thread	Part no.	NPT thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03AMC2	3/8"	4.0	12.0	16.0	31.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.22	0.945	0.866	0.866
	EXN04ASC2	1/2"	3.0	9.0	16.0	27.0	24.0	22.0	20.0
			0.118	0.354	0.63	1.063	0.945	0.866	0.787
	EXN04AMC2	1/2"	4.0	12.0	16.0	27.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.063	0.945	0.866	0.866
	EXN04ALC2	1/2"	10.0	16.0	16.0	30.0	31.0	28.0	28.0
			0.394	0.63	0.63	1.181	1.22	1.102	1.102
	EXN05AMC2	3/4"	10.0	18.0	16.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.63	1.201	1.22	1.102	1.102
	EXN05ALC2	3/4"	14.0	20.0	16.0	34.0	39.0	35.0	35.0
			0.551	0.787	0.63	1.339	1.535	1.378	1.378
	EXN06AMC2	1"	14.0	24.0	20.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	1.299	1.535	1.378	1.378
	EXN06ALC2	1"	22.0	28.0	20.0	41.0	50.0	45.0	45.0
			0.866	1.102	0.787	1.614	1.969	1.772	1.772
	EXN07AMC2	1 1/4"	22.0	32.0	20.0	41.0	50.0	45.0	45.0
			0.866	1.26	0.787	1.614	1.969	1.772	1.772
	EXN07ALC2	1 1/4"	26.0	34.0	20.0	44.0	55.5	50.0	50.0
			1.0	1.3	0.8	1.7	2.2	2.0	2.0
	EXN08ASC2	1 1/2"	26.0	35.0	20.0	44.0	61.0	55.0	50.0
			1.0	1.4	0.8	1.7	2.4	2.2	2.0
	EXN08AMC2	1 1/2"	35.0	44.0	20.0	43.0	70.0	64.0	64.0
			1.4	1.7	0.8	1.7	2.8	2.5	2.5
	EXN09ASC2	2"	35.0	45.0	20.0	43.0	75.0	68.0	64.0
			1.4	1.8	0.8	1.7	3.0	2.7	2.5
	EXN09AMC2	2"	46.0	56.0	20.0	52.5	89.0	75.0	80.0
			1.8	2.2	0.8	2.1	3.5	3.0	3.2
	EXN10ASC2	2 1/2"	46.0	62.0	21.0	52.0	89.0	80.0	80.0
			1.8	2.4	0.8	2.0	3.5	3.2	3.2
	EXN10AMC2	2 1/2"	60.0	69.0	21.0	55.0	105.0	95.0	95.0
			2.4	2.7	0.8	2.2	4.1	3.7	3.7
	EXN11ASC2	3"	60.0	75.0	21.0	55.0	105.0	95.0	95.0
			2.4	3.0	0.8	2.2	4.1	3.7	3.7
	EXN11AMC2	3"	75.0	82.0	21.0	55.0	117.0	105.0	105.0
			3.0	3.2	0.8	2.2	4.6	4.1	4.1

Ex d e Flat cable glands for hazardous areas

C2F Series



C2F Series - Ex e flat cable glands

Features and benefits:

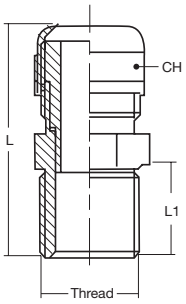
- Flameproof Ex d and increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored flat cable types

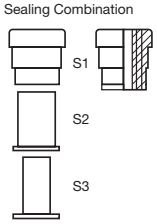
Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: IMQ14ATEX013X
	IECEx: IECEx IMQ 14.0005X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1696X
	DNV: TAE00000Y3
	II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range
Certified –60°C to +140°C

IP Rating	Material
IP66	Nickel plated brass and
IP68 (5-Bar 30 mins)	Stainless steel

DImensions





Metric thread	Part no.	Metric thread	Min. Length (mm)	Cable range Ø Min. (mm)	Cable range Ø Max. (mm)
	EXN04MMAC2F	M20x1.5	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04MMBC2F	M20x1.5	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04MMCC2F	M20x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04MMDC2F	M20x1.5	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04MMEC2F	M20x1.5	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04MMFC2F	M20x1.5	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05MMAC2F	M25x1.5	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05MMBC2F	M25x1.5	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05MMCC2F	M25x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05MMDC2F	M25x1.5	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05MMEC2F	M25x1.5	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05MMFC2F	M25x1.5	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05MMGC2F	M25x1.5	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05MMHC2F	M25x1.5	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Flat cable glands for hazardous areas

C2F Series

DImensions

NPT thread	Part no.	NPT thread	Min. Length (mm)	Cable range Ø Min. (mm)	Cable range Ø Max. (mm)
	EXN04AMAC2F	1/2"	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04AMBC2F	1/2"	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04AMCC2F	1/2"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04AMDC2F	1/2"	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04AMEC2F	1/2"	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04AMFC2F	1/2"	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05AMAC2F	3/4"	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05AMBC2F	3/4"	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05AMCC2F	3/4"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05AMDC2F	3/4"	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05AMEC2F	3/4"	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05AMFC2F	3/4"	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05AMGC2F	3/4"	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05AMHC2F	3/4"	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Non-armored cable glands for hazardous areas

C3 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Deluge proof

Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

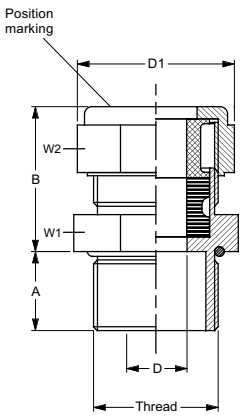
C3 Series - Ex d e single compression cable glands

Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: CESI13ATEX041X
	IECEx: IECEx CES 13.0014X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1692X
	DNV: TAE00000Y3
	Ⓔ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range
Operating range: –40°C to +100°C (–40°F to +212°F)

IP Rating	Material
IP66	Nickel plated brass
IP68 (5-Bar 30 mins)	Stainless steel 316

Dimensions



Metric thread	Part no.	Metric thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03MSC3	M16x1.5	3.0	8.5	16.0	25.0	29.0	22.0	26.0
			0.118	0.335	0.63	0.984	1.142	0.866	1.024
	EXN03MMC3	M16x1.5	6.0	12.0	16.0	28.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.122	1.24	0.984	1.142
	EXN04MSC3	M20x1.5	6.0	12.0	16.0	27.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.083	1.24	0.984	1.142
	EXN04MMC3	M20x1.5	12.0	14.5	16.0	29.0	33.5	28.0	30.0
			0.472	0.571	0.63	1.142	1.319	1.102	1.181
	EXN05MSC3	M25x1.5	6.0	12.0	18.0	28.5	31.5	29.0	29.0
			0.236	0.472	0.709	1.122	1.24	1.142	1.142
	EXN05MMC3	M25x1.5	12.0	16.0	18.0	28.5	37.0	32.0	35.0
			0.472	0.63	0.709	1.122	1.457	1.26	1.378
	EXN05MLC3	M25x1.5	12.0	20.0	18.0	32.5	44.5	36.0	40.0
			0.472	0.787	0.709	1.28	1.752	1.417	1.575
	EXN06MSC3	M32x1.5	12.0	20.0	18.0	33.5	44.5	40.0	40.0
			0.472	0.787	0.709	1.319	1.752	1.575	1.575
	EXN06MMC3	M32x1.5	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047
	EXN07MSC3	M40x1.5	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047

Ex d e Non-armored cable glands for hazardous areas

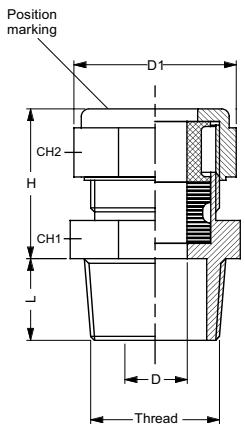
C3 Series

Dimensions



Metric thread	Part no.	Metric thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN07MMC3	M40x1.5	20.0	32.0	18.0	50.0	66.0	55.0	60.0
			0.787	1.26	0.709	1.969	2.598	2.165	2.362
	EXN08MSC3	M50x1.5	22.0	35.0	18.0	50.5	77.0	60.0	70.0
			0.866	1.378	0.709	1.988	3.031	2.362	2.756
	EXN08MMC3	M50x1.5	27.0	41.0	18.0	54.0	77.0	70.0	70.0
			1.063	1.614	0.709	2.126	3.031	2.756	2.756
	EXN09MSC3	M63x1.5	35.0	45.0	20.0	61.5	89.5	75.0	80.0
			1.378	1.772	0.787	2.421	3.524	2.953	3.15
	EXN09MMC3	M63x1.5	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10MSC3	M75x1.5	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10MMC3	M75x1.5	45.0	60.0	20.0	72.0	105.0	90.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.543	3.74
	EXN11MSC3	M90x1.5	45.0	60.0	20.0	72.0	105.0	95.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.74	3.74
	EXN11MMC3	M90x1.5	60.0	72.0	20.0	84.0	127.0	110.0	115.0
			2.362	2.835	0.787	3.307	5.000	4.331	4.528

Dimensions



NPT thread	Part no.	NPT thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03ASC3	3/8"	3.0	8.5	16.0	25.0	29.0	22.0	26.0
			0.118	0.335	0.63	0.984	1.142	0.866	1.024
	EXN03AMC3	3/8"	6.0	12.0	16.0	28.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.122	1.24	0.984	1.142
	EXN04ASC3	1/2"	6.0	12.0	16.0	27.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.083	1.24	0.984	1.142
	EXN04AMC3	1/2"	12.0	14.5	16.0	29.0	33.5	28.0	30.0
			0.472	0.571	0.63	1.142	1.319	1.102	1.181
	EXN05ASC3	3/4"	6.0	12.0	18.0	28.5	31.5	29.0	29.0
			0.236	0.472	0.709	1.122	1.24	1.142	1.142
	EXN05AMC3	3/4"	12.0	16.0	18.0	28.5	37.0	32.0	35.0
			0.472	0.63	0.709	1.122	1.457	1.26	1.378
	EXN05ALC3	3/4"	12.0	20.0	18.0	32.5	44.5	36.0	40.0
			0.472	0.787	0.709	1.28	1.752	1.417	1.575
	EXN06ASC3	1"	12.0	20.0	18.0	33.5	44.5	40.0	40.0
			0.472	0.787	0.709	1.319	1.752	1.575	1.575
	EXN06AMC3	1"	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047
	EXN07ASC3	1 1/4"	15.0	26.0	28.0	41.0	57.0	48.0	52.0
			0.591	1.024	1.102	1.614	2.244	1.89	2.047

Ex d e Non-armored cable glands for hazardous areas

C3 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN07AMC3	1 1/4"	20.0	32.0	18.0	50.0	66.0	55.0	60.0
			0.787	1.26	0.709	1.969	2.598	2.165	2.362
	EXN08ASC3	1 1/2"	22.0	35.0	18.0	50.5	77.0	60.0	70.0
			0.866	1.378	0.709	1.988	3.031	2.362	2.756
	EXN08AMC3	1 1/2"	27.0	41.0	18.0	54.0	77.0	70.0	70.0
			1.063	1.614	0.709	2.126	3.031	2.756	2.756
	EXN09ASC3	2"	35.0	45.0	20.0	61.5	89.5	75.0	80.0
			1.378	1.772	0.787	2.421	3.524	2.953	3.15
	EXN09AMC3	2"	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10ASC3	2 1/2"	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10AMC3	2 1/2"	45.0	60.0	20.0	72.0	105.0	90.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.543	3.74
	EXN11ASC3	M90x1.5	45.0	60.0	20.0	72.0	105.0	95.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.74	3.74
	EXN11AMC3	M90x1.5	60.0	72.0	20.0	84.0	127.0	110.0	115.0
			2.362	2.835	0.787	3.307	5.000	4.331	4.528

Ex d e EMC cable glands for hazardous areas

C6 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with shielded circular cable types
- EMC contact to maintain shielding continuity
- Wide cable range
- Deluge proof

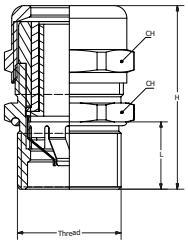
C6 Series - Ex d e single compression cable glands

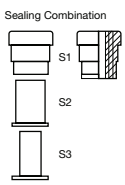
Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: IMQ14ATEX013XIECEx CES
	IECEx: IECEx IMQ 14.0005X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1696X
	DNV: TAE00000Y3
	Ⓔx II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range
Operating range: –60°C to +100°C (–76°C to +212°C)

IP Rating	Material
IP66	Nickel plated brass
	Stainless steel 316

DImensions





Metric thread	Part no.	Metric thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03MSC6	M16x1.5	4.0	8.0	16.0	28.5	22.0	20.0	20.0
			0.157	0.315	0.63	1.122	0.866	0.787	0.787
	EXN03MMC6	M16x1.5	4.0	8.0	16.0	28.5	24.5	22.0	22.0
			0.157	0.315	0.63	1.122	0.965	0.866	0.866
	EXN04MMC6	M20x1.5	4.0	12.0	18.0	27.0	24.5	22.0	22.0
			0.157	0.472	0.709	1.063	0.965	0.866	0.866
	EXN05MMC6	M25x1.5	10.0	18.0	16.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.63	1.201	1.22	1.102	1.102
	EXN06MMC6	M32x1.5	14.0	24.0	19.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.748	1.299	1.535	1.378	1.378
	EXN07MMC6	M40x1.5	22.0	32.0	20.0	40.5	49.5	45.0	45.0
			0.866	1.26	0.787	1.594	1.949	1.772	1.772
	EXN08MMC6	M50x1.5	26.0	35.0	20.0	43.5	61.0	55.0	50.0
			1.024	1.378	0.787	1.713	2.402	2.165	1.969
	EXN09MMC6	M63x1.5	35.0	45.0	20.0	43.5	70.0	68.0	64.0
			1.378	1.772	0.787	1.713	2.756	2.677	2.52

Ex d e EMC cable glands for hazardous areas

C6 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	EXN03ASC6	3/8"	4.0	8.0	16.0	28.5	22.0	20.0	20.0
			0.157	0.315	0.63	1.122	0.866	0.787	0.787
	EXN03AMC6	3/8"	4.0	8.0	18.0	28.5	24.5	22.0	22.0
			0.157	0.315	0.709	1.122	0.965	0.866	0.866
	EXN04AMC6	1/2"	4.0	12.0	18.0	27.0	24.5	22.0	22.0
			0.157	0.472	0.709	1.063	0.965	0.866	0.866
	EXN05AMC6	3/4"	10.0	18.0	20.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.787	1.201	1.22	1.102	1.102
	EXN06AMC6	3/4"	14.0	24.0	20.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	1.299	1.535	1.378	1.378
	EXN07AMC6	1"	22.0	32.0	20.0	40.5	49.5	45.0	45.0
			0.866	1.26	0.787	1.594	1.949	1.772	1.772
	EXN08AMC6	1 1/4"	26.0	35.0	20.0	43.5	61.0	55.0	50.0
			1.024	1.378	0.787	1.713	2.402	2.165	1.969
	EXN09AMC6	1 1/2"	35.0	45.0	20.0	43.5	70.0	68.0	64.0
			1.378	1.772	0.787	1.713	2.756	2.677	2.52

Ex d e Flat EMC cable glands for hazardous areas

C6F Series



C6F Series - Ex e flat cable glands

Features and benefits:

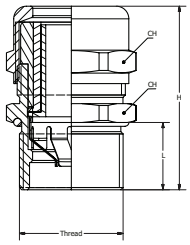
- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with flat and heat trace cable types
- EMC contact to maintain shielding continuity

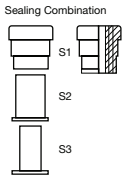
Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: IMQ14ATEX013X
	IECEx: IECEx IMQ 14.0005X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1696X
	DNV: TAE00000Y3
	II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range
–60°C to +140°C (–76°F to +284°F)

IP Rating	Material
IP66	Nickel plated brass and
IP68 (5-Bar 30 mins)	stainless steel

Dimensions





Metric thread	Part no.	Metric thread	Min. Length (mm)	Cable range Ø Min. (mm)	Cable range Ø Max. (mm)
	EXN04MMAC6F	M20x1.5	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04MMBC6F	M20x1.5	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04MMCC6F	M20x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04MMDC6F	M20x1.5	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04MMEC6F	M20x1.5	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04MMFC6F	M20x1.5	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05MMAC6F	M25x1.5	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05MMBC6F	M25x1.5	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05MMCC6F	M25x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05MMDC6F	M25x1.5	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05MMEC6F	M25x1.5	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05MMFC6F	M25x1.5	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05MMGC6F	M25x1.5	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05MMHC6F	M25x1.5	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Flat EMC cable glands for hazardous areas

C6F Series

Dimensions



NPT thread	Part no.	NPT thread	Min. Length (mm)	Cable range Ø Min. (mm)	Cable range Ø Max. (mm)
	EXN04AMAC6F	1/2"	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04AMBC6F	1/2"	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04AMCC6F	1/2"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04AMDC6F	1/2"	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04AMEC6F	1/2"	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04AMFC6F	1/2"	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05AMAC6F	3/4"	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05AMBC6F	3/4"	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05AMCC6F	3/4"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05AMDC6F	3/4"	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05AMEC6F	3/4"	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05AMFC6F	3/4"	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05AMGC6F	3/4"	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05AMHC6F	3/4"	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Non-armored barrier cable glands for hazardous areas

C4 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with all non-armored cable types
- Epoxy compound barrier

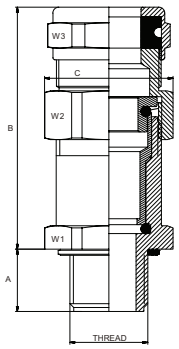
C4 Series - Ex d e armored cable glands

Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: CESI14ATEX032X
	IECEx: IECEx CES 14.0013X
	CNEx: CNEx15.1690X
	DNV: TAE00000Y3
	TAE00000Y3
	Ⓔx II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db,

Temperature range
Operating range: –60°C to +100°C (–76°F to +212°F)

IP Rating	Material
IP66	Nickel plated brass
	Stainless steel 316

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN04MC4	M20x1.5	8.5	16.0	16.0	62.0	33.0	30.0	30.0	29.0
			0.335	0.630	0.630	2.440	1.299	1.181	1.181	1.142
	EXN05MC4	M25x1.5	16.0	21.0	16.0	62.8	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.472	1.456	1.338	1.338	1.338
	EXN06MC4	M32x1.5	16.0	26.0	16.0	68.5	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.460	1.771	1.653	1.653	1.574
	EXN07MC4	M40x1.5	29.0	41.0	16.0	75.1	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	2.956	2.598	1.968	2.362	2.362
	EXN08MC4	M50x1.5	33.0	48.0	16.0	82.7	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.255	3.031	2.362	2.755	2.952
	EXN09MC4	M63x1.5	36.0	52.0	16.0	96.0	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	3.779	3.031	2.755	2.755	2.913

EXN for nickel plated

Ex d e Non-armored barrier cable glands for hazardous areas

C4 Series

Dimensions

			Cable range Ø		Nominal dimensions (mm/in)					
NPT thread	**Part no.**	**NPT thread**	**Min. (mm/in)**	**Max. (mm/in)**	**A Min**	**B Min**	**C Min**	**W1**	**W2**	**W3**
	EXN04AC4	1/2"	8.5	16.0	21.0	62.0	33.0	30.0	30.0	30.0
			0.335	0.630	0.826	2.440	1.299	1.181	1.181	1.181
	EXN05AC4	3/4"	16.0	21.0	21.0	62.8	37.0	34.0	34.0	34.0
			0.630	0.827	0.826	2.472	1.456	1.338	1.338	1.338
	EXN06AC4	1"	16.0	26.0	26.0	68.5	45.0	42.0	42.0	40.0
			0.630	1.024	1.023	2.460	1.771	1.653	1.653	1.574
	EXN07AC4	1 1/4"	29.0	41.0	28.0	75.1	66.0	50.0	60.0	60.0
			1.142	1.614	1.102	2.956	2.598	1.968	2.362	2.362
	EXN08AC4	1 1/2"	33.0	48.0	28.0	82.7	77.0	60.0	70.0	75.0
			1.299	1.890	1.102	3.255	3.031	2.362	2.755	2.952
	EXN09AC4	2"	36.0	52.0	28.0	96.0	77.0	70.0	70.0	74.0
			1.417	2.047	1.102	3.779	3.031	2.755	2.755	2.913

EXN for nickel plated

Ex e Strain relief cable glands for ordinary and hazardous areas

ISR Series



ISR Series - Industrial strain relief cable glands

Features and benefits:

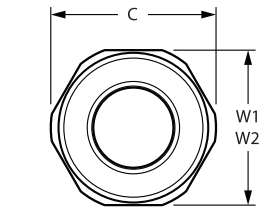
- Increased safety Ex e
- Suitable for use in Zone 1, 2, 20, 21 and 22
- For use with non-armored cable types
- Mechanical grip for maximum cable retention
- Wide clamping range

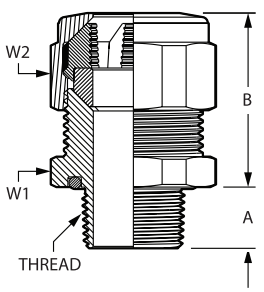
Approvals & certifications	Conformity Conforms to:
Metric is not UL listed	CSA C22.2/IEC/EN 60079-0, 60079-7, 60079-31, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, UL2225, UL514B
	CSA Certificate: 70009467 File 23086
	ABS Certificate: 16-HS1588269-PDA
	ATEX: SIRA 14ATEX3238X
	IECEx: CSA 14.0035X
	II 1D 2G, Ex e IIC Gb, Ex ta IIIC Da
	Class I Div2 ABCD Class II Div1 EFG Class III Div1
	UL Files: E311979, E328651, E13938, E307708
	Class I, Zone 1, AEx e IIC, Zone 20, AEx ta

Temperature range
Approved: –50°C to +110°C (–40°F to +230°F)

IP Rating	Material
IP66	Copper free aluminium
Type 4X	(stainless steel 316L options)
	Silicone seal bushing
	Glass filled nylon and TPE grip

DImensions





Metric thread	Part no.	Metric thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	ISRM20-13	M20x1.5	8.25	13.34	16.00	41.91	34.29	31.75	31.75
			0.325	0.525	0.630	1.650	1.350	1.250	1.250
	ISRM20-15	M20x1.5	10.79	15.00	16.00	42.75	38.10	34.93	34.93
			0.425	0.591	0.630	1.683	1.500	1.375	1.375
	ISRM25-15	M25x1.5	10.79	15.75	18.00	42.75	41.28	38.10	38.10
			0.157	0.620	0.709	1.683	1.625	1.500	1.500
	ISRM25-20	M25x1.5	14.86	20.07	18.00	45.47	43.18	40.49	40.49
			0.585	0.790	0.709	1.790	1.700	1.594	1.594
	ISRM32-26	M32x1.5	19.94	26.04	18.00	46.18	48.26	44.45	44.45
			0.785	1.025	0.709	1.818	1.900	1.750	1.750
	ISRM40-31	M40x1.5	25.02	30.86	18.00	50.62	58.93	55.63	55.63
			0.985	1.215	0.709	1.993	2.320	2.190	2.190
	ISRM40-35	M40x1.5	30.10	34.80	18.00	48.72	58.93	55.63	55.63
			1.185	1.370	0.709	1.918	2.320	2.190	2.190
	ISRM50-39	M50x1.5	33.91	39.37	18.00	49.40	65.53	60.33	60.33
			1.335	1.550	0.709	1.945	2.580	2.375	2.375
	ISRM63-45	M63x1.5	38.73	45.34	20.00	51.23	81.28	76.20	72.85
			1.525	1.785	0.787	2.017	3.200	3.000	2.868
	ISRM63-52	M63x1.5	44.58	52.20	20.00	51.05	81.28	76.20	76.20
			1.755	2.055	0.787	2.010	3.200	3.000	3.000

Ex e strain relief cable glands for ordinary and hazardous areas

ISR Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	ISRM50-53	1/2"	8.26	13.34	15.75	41.91	34.29	31.75	31.75
			0.325	0.525	0.620	1.650	1.350	1.250	1.250
	ISR050-062	1/2"	10.80	15.75	15.75	42.75	38.10	34.93	34.93
			0.425	0.620	0.620	1.683	1.500	1.375	1.375
	ISR075-062	3/4"	10.80	15.75	16.00	42.75	41.28	38.10	38.10
			0.425	0.620	0.630	1.683	1.625	1.500	1.500
	ISR075-082	3/4"	14.86	20.70	16.00	45.47	43.18	40.49	40.49
			0.585	0.815	0.630	1.790	1.700	1.594	1.594
	ISR100-102	1"	19.94	26.04	19.94	46.18	48.26	44.70	44.70
			0.785	1.025	0.785	1.818	1.900	1.760	1.760
	ISR125-122	1 1/4"	25.02	30.86	20.57	50.62	58.93	55.63	55.63
			0.985	1.215	0.810	1.993	2.320	2.190	2.190
	ISR125-137	1 1/4"	30.10	34.80	20.57	48.72	58.93	55.63	55.63
			1.185	1.370	0.810	1.918	2.320	2.190	2.190
	ISR150-156	1 1/2"	33.91	39.37	20.96	49.40	65.53	60.33	60.33
			1.335	1.550	0.825	1.945	2.580	2.375	2.375
	ISR200-179	2"	38.74	45.34	21.84	51.23	76.50	72.85	72.85
			1.525	1.785	0.860	2.017	3.012	2.868	2.868
	ISR200-206	2"	44.58	52.20	21.84	51.05	81.28	76.20	76.20
			1.755	2.055	0.860	2.010	3.200	3.000	3.000

Tray – cord fitting

TCF Series



Features and benefits:

- High Mechanical pull out
- Wide clamping range
- Suitable for non-armored cable types

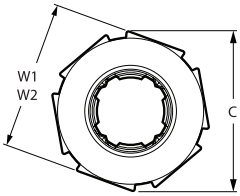
TCF Series - Brass cable glands

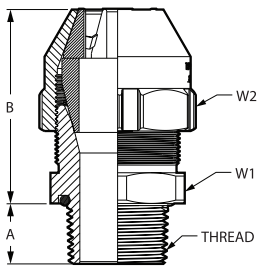
Approvals & certifications	Conformity Conforms to:
	CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No. 94, UL60079-0, UL60079-7, UL514B, UL50
	c-CSA-us Certificate: 1388229 File 4484
	Ex e II, IP66; Type 4/4X,6
	Class I, Zone 1, AEx e II, IP66; Type 4/4X,6

Temperature range
Normal use: -40°C to +90°C (–76°F to +194°F)

IP Rating	Material
IP66	Copper free aluminium (stainless steel 316 options)
Type 4/4X	Neoprene/Santoprene sealing bush body and cap
Type 6 (flexible cord only)	Nylon grip

DImensions





Metric thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	TCF050-27AL	1/2"	3.81	6.86	15.75	48.08	31.84	28.58	29.64
			0.150	0.270	0.620	1.893	1.253	1.125	1.167
	TCF050-40AL	1/2"	6.35	10.16	15.75	59.18	31.84	28.58	29.64
			0.250	0.400	0.620	2.330	1.253	1.125	1.167
	TCF050-54AL	1/2"	10.16	13.72	15.75	59.18	31.84	28.58	29.64
			0.400	0.540	0.620	2.330	1.253	1.125	1.167
	TCF050-67AL	1/2"	13.72	17.02	15.75	62.43	41.60	34.93	38.74
			0.540	0.670	0.620	2.458	1.638	1.375	1.525
	TCF050-78AL	1/2"	16.76	19.81	15.75	62.43	41.60	34.93	38.74
			0.660	0.780	0.620	2.458	1.638	1.375	1.525
	TCF075-40AL	3/4"	6.35	10.16	16.00	59.18	31.84	34.93	29.64
			0.250	0.400	0.630	2.330	1.253	1.375	1.167
	TCF075-54AL	3/4"	10.16	13.72	16.00	59.18	31.84	34.93	29.64
			0.400	0.540	0.630	2.330	1.253	1.375	1.167
	TCF075-67AL	3/4"	13.72	17.02	16.00	62.43	41.60	34.93	38.74
			0.540	0.670	0.630	2.458	1.638	1.375	1.525
	TCF075-78AL	3/4"	16.76	19.81	16.00	62.43	41.60	34.93	38.74
			0.660	0.780	0.630	2.458	1.638	1.375	1.525
	TCF075-88AL	3/4"	19.56	22.35	15.75	68.71	52.84	44.45	49.20
			0.770	0.880	0.620	2.705	2.080	1.750	1.937

Tray – cord fitting

TCF Series

Dimensions



NPT thread	Part no.	NPT thread	Cable range Min. (mm/in)	Cable range Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2
	TCF100-78AL	1"	16.76	19.81	19.94	69.98	52.84	44.45	49.20
			0.660	0.780	0.785	2.755	2.080	1.750	1.937
	TCF100-88AL	1"	19.56	22.35	19.94	69.98	52.84	44.45	49.20
			0.770	0.880	0.785	2.755	2.080	1.750	1.937
	TCF100-100AL	1"	22.10	25.40	19.94	69.98	52.84	44.45	49.20
			0.870	1.000	0.785	2.755	2.080	1.750	1.937
	TCF100-109AL	1"	23.88	27.69	19.94	69.72	52.84	44.45	49.20
			0.940	1.090	0.785	2.745	2.080	1.750	1.937
	TCF125-109AL	1 1/4"	22.61	27.69	20.57	98.15	68.12	61.72	63.42
			0.890	1.090	0.810	3.864	2.682	2.430	2.497
	TCF125-128AL	1 1/4"	27.43	32.51	20.57	98.15	68.12	61.72	63.42
			1.080	1.280	0.810	3.864	2.682	2.430	2.497
	TCF125-147AL	1 1/4"	32.26	37.34	20.57	98.15	68.12	61.72	63.42
			1.270	1.470	0.810	3.864	2.682	2.430	2.497
	TCF150-115AL	1 1/2"	22.61	29.21	20.96	96.42	78.62	66.47	73.20
			0.890	1.150	0.825	3.796	3.095	2.617	2.882
	TCF150-140AL	1 1/2"	28.96	35.56	20.96	96.42	78.62	66.47	73.20
			1.140	1.400	0.825	3.796	3.095	2.617	2.882
	TCF150-165AL	1 1/2"	35.31	41.91	20.96	96.42	78.62	66.47	73.20
			1.390	1.650	0.825	3.796	3.095	2.617	2.882
	TCF200-153AL	2"	30.23	38.86	21.84	106.88	92.59	82.42	86.21
			1.190	1.530	0.860	4.208	3.645	3.245	3.394
	TCF200-186AL	2"	38.61	47.24	21.84	106.88	92.59	82.42	86.21
			1.520	1.860	0.860	4.208	3.645	3.245	3.394
	TCF200-219AL	2"	46.99	55.63	21.84	106.88	92.59	82.42	86.21
			1.850	2.190	0.860	4.208	3.645	3.245	3.394
	TCF250-252AL	2 1/2"	53.85	64.01	32.51	141.73	113.67	99.77	105.31
			2.120	2.520	1.280	5.580	4.475	3.928	4.146
	TCF300-278AL	3"	60.45	70.61	33.76	142.27	122.81	111.20	114.10
			2.380	2.780	1.329	5.601	4.835	4.378	4.492
	TCF300-304AL	3"	67.06	77.22	34.04	146.30	130.58	119.46	121.69
			2.640	3.040	1.340	5.760	5.141	4.703	4.791
	TCF300-330AL	3"	73.66	83.82	34.04	147.83	137.67	118.11	128.17
			2.900	3.300	1.340	5.820	5.420	4.650	5.046

Ex d e Armored cable glands for hazardous areas

C1 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with Wire, braid or tape armored cable types

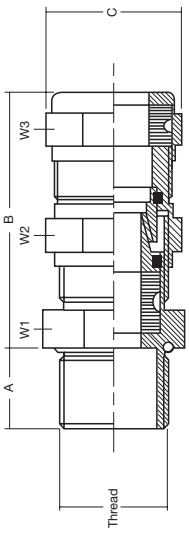
Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

C1 Series - Ex d e single compression cable glands

Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	UL514B, UL2225
	ATEX: CESI13ATEX041X
	IECEx: IECEx CES 13.0014X
	EACEx: RU C-GB.AA87.B.00198
	CNEx: CNEx15.1692X
	DNV: TAE00000Y3
	UL: E477121
	Ⓔ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db
	Class 1 Zone 1 AEx e IIC

Temperature range	
Operating range: –40°C to +100°C (–40°F to +212°F)	
IP Rating	**Material**
IP66	Nickel plated brass and Stainless steel 316
IP68 (5-Bar 30 mins)	

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN03MSC1	M16x1.5	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	22.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.866	1.024	1.024
	EXN03MMC1	M16x1.5	6.0 - 12.0	8.5 - 16.0	16.0	50.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.969	1.24	0.984	1.142	1.142
	EXN04MSC1	M20x1.5	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	24.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.945	1.024	1.024
	EXN04MMC1	M20x1.5	6.0 - 12.0	8.5 - 16.0	16.0	47.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.929	1.24	0.984	1.142	1.142
	EXN04MLC1	M20x1.5	12.0 - 14.5	16.0 - 20.0	16.0	52.0	35.0	28.0	30.0	32.0
			0.472 - 0.571	0.630 - 0.787	0.63	2.047	1.378	1.102	1.181	1.26
	EXN05MSC1	M25x1.5	6.0 - 12.0	8.5 - 16.0	18.0	50.5	31.5	29.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.709	1.988	1.24	1.142	1.142	1.142
	EXN05MMC1	M25x1.5	12.0 - 16.0	16.0 - 21.0	18.0	54.5	37.0	32.0	34.0	34.0
			0.472 - 0.630	0.630 - 0.827	0.709	2.146	1.457	1.26	1.339	1.339
	EXN05MLC1	M25x1.5	12.0 - 20.0	16.0 - 26.0	18.0	60.5	44.0	36.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.382	1.732	1.417	1.575	1.575
	EXN06MSC1	M32x1.5	12.0 - 20.0	16.0 - 26.0	18.0	62.0	44.0	40.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.441	1.732	1.575	1.575	1.575

Ex d e Armored cable glands for hazardous areas

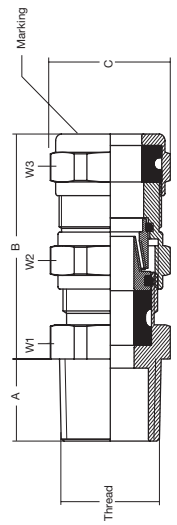
C1 Series

Dimensions



Metric thread	Part no.	Metric thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN06MMC1	M32x1.5	15.0 - 26.0	20.0 - 33.0	18.0	78.5	57.0	48.0	52.0	52.0
			0.591 - 1.024	0.787 - 1.299	0.709	3.091	2.244	1.89	2.047	2.047
	EXN07MSC1	M40x1.5	15.0 - 26.0	20.0 - 33.0	18.0	78.5	57.0	48.0	52.0	52.0
			0.591 - 1.024	0.787 - 1.299	0.709	3.091	2.244	1.89	2.047	2.047
	EXN07MMC1	M40x1.5	20.0 - 32.0	29.0 - 41.0	18.0	89.5	66.0	55.0	60.0	60.0
			0.787 - 1.260	1.142 - 1.614	0.709	3.524	2.598	2.165	2.362	2.362
	EXN08MSC1	M50x1.5	22.0 - 35.0	33.0 - 48.0	18.0	96.5	82.0	60.0	70.0	75.0
			0.866 - 1.378	1.299 - 1.890	0.709	3.799	3.228	2.362	2.756	2.953
	EXN08MMC1	M50x1.5	27.0 - 41.0	36.0 - 52.0	18.0	100.0	83.0	70.0	70.0	74.0
			1.063 - 1.614	1.417 - 2.047	0.709	3.937	3.268	2.756	2.756	2.913
	EXN09MSC1	M63x1.5	35.0 - 45.0	43.0 - 57.0	20.0	106.0	89.5	75.0	80.0	80.0
			1.378 - 1.772	1.693 - 2.244	0.787	4.173	3.524	2.953	3.15	3.15
	EXN09MMC1	M63x1.5	40.0 - 52.0	47.0 - 60.0	20.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.787	4.252	3.701	3.346	3.346	3.346
	EXN10MSC1	M75x1.5	40.0 - 52.0	47.0 - 60.0	20.0	107.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.787	4.252	3.701	3.346	3.346	3.346
	EXN10MMC1	M75x1.5	45.0 - 60.0	54.0 - 70.0	20.0	125.0	110.5	90.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.921	4.35	3.543	3.74	3.937
	EXN11MSC1	M90x1.5	45.0 - 60.0	54.0 - 70.0	20.0	124.0	110.5	95.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	3.74	3.74	3.937
	EXN11MMC1	M90x1.5	60.0 - 72.0	63.0 - 80.0	20.0	154.0	127.0	110.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5.000	4.331	4.528	4.528
	EXN12MSC1	M110x2.0	45.0 - 60.0	54.0 - 70.0	20.0	124.0	110.5	120.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	4.724	3.74	3.937
	EXN12MMC1	M110x2.0	60.0 - 72.0	63.0 - 80.0	20.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5.000	4.724	4.528	4.528

Dimensions



NPT thread	Part no.	NPT thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN03ASC1	3/8"	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	22.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.866	1.024	1.024
	EXN03AMC1	3/8"	6.0 - 12.0	8.5 - 16.0	16.0	50.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.969	1.24	0.984	1.142	1.142
	EXN04ASC1	1/2"	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	24.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.945	1.024	1.024
	EXN04AMC1	1/2"	6.0 - 12.0	8.5 - 16.0	16.0	49.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.929	1.24	0.984	1.142	1.142
	EXN04ALC1	1/2"	12.0 - 14.5	16.0 - 20.0	16.0	52.0	35.0	28.0	30.0	32.0
			0.472 - 0.571	0.630 - 0.787	0.63	2.047	1.378	1.102	1.181	1.26
	EXN05ASC1	3/4"	6.0 - 12.0	8.5 - 16.0	18.0	50.5	31.5	29.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.709	1.988	1.24	1.142	1.142	1.142
	EXN05AMC1	3/4"	12.0 - 16.0	16.0 - 21.0	18.0	54.5	37.0	32.0	34.0	34
			0.472 - 0.630	0.630 - 0.827	0.709	2.146	1.457	1.26	1.339	1.339
	EXN05ALC1	3/4"	12.0 - 20.0	16.0 - 26.0	18.0	60.5	44.0	36.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.382	1.732	1.417	1.575	1.575
	EXN06ASC1	1"	12.0 - 20.0	16.0 - 26.0	18.0	62.0	44.0	40.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.441	1.732	1.575	1.575	1.575

Ex d e Armored cable glands for hazardous areas

C1 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø Inner Min. (mm/in)	Cable range Ø Outer Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN06AMC1	1"	20.0 - 32.0	29.0 - 41.0	18.0	89.5	66.0	55.0	60.0	60.0
			0.787 - 1.260	1.142 - 1.614	0.709	3.524	2.598	2.165	2.362	2.362
	EXN07ASC1	1 1/4"	22.0 - 35.0	33.0 - 48.0	21.0	96.5	82.0	60.0	70.0	75.0
			0.866 - 1.378	1.299 - 1.890	0.827	3.799	3.228	2.362	2.756	2.953
	EXN07AMC1	1 1/4"	27.0 - 41.0	36.0 - 52.0	21.0	100.0	83.0	70.0	70.0	74.0
			1.063 - 1.614	1.417 - 2.047	0.827	3.937	3.268	2.756	2.756	2.913
	EXN08ASC1	1 1/2"	35.0 - 45.0	43.0 - 57.0	21.0	106.0	89.5	75.0	80.0	80.0
			1.378 - 1.772	1.693 - 2.244	0.827	4.173	3.524	2.953	3.15	3.15
	EXN08AMC1	1 1/2"	40.0 - 52.0	47.0 - 60.0	21.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.827	4.252	3.701	3.346	3.346	3.346
	EXN09ASC1	2"	40.0 - 52.0	47.0 - 60.0	21.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.827	4.252	3.701	3.346	3.346	3.346
	EXN09AMC1	2"	45.0 - 60.0	54.0 - 70.0	21.0	125.0	110.5	90.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.921	4.35	3.543	3.74	3.937
	EXN10ASC1	2 1/2"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	95.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.882	4.35	3.74	3.74	3.937
	EXN10AMC1	2 1/2"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	110.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.827	6.063	5.000	4.331	4.528	4.528
	EXN11ASC1	3"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	120.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.882	4.350	4.724	3.74	3.937
	EXN11AMC1	3"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.8	6.1	5.0	4.7	4.5	4.528
	EXN12ASC1	3 1/2"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	120.0	95	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	4.724	3.74	3.937
	EXN12AMC1	3 1/2"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5	4.724	4.528	4.528

Ex d e Armored barrier cable glands for hazardous areas

C5 Series



C5 Series - Ex d e armored cable glands

Features and benefits:

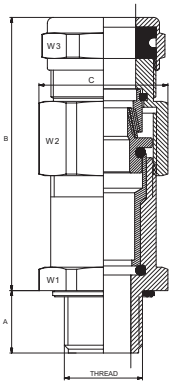
- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with Wire, braid or tape armored cable types
- Epoxy compound barrier

Approvals & certifications	Conformity Conforms to:
	EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444
	ATEX: CESI14ATEX032X
	IECEx: IECEx CES 14.0013X
	CNEx: CNEx15.1690X
	DNV: TAE00000Y3
	II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range
Operating range: –60°C to +100°C (–76°F to +212°F)

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

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø Min. (mm/in)	Cable range Ø Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min	W1	W2	W3
	EXN04MC5	M20x1.5	8.5	16.0	16.0	70.0	33.0	30.0	30.0	29.0
			0.335	0.630	0.630	2.756	1.299	1.181	1.181	1.142
	EXN05MC5	M25x1.5	16.0	21.0	16.0	72.1	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.838	1.456	1.338	1.338	1.338
	EXN06MC5	M32x1.5	16.0	26.0	16.0	76.0	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.992	1.771	1.653	1.653	1.574
	EXN07MC5	M40x1.5	29.0	41.0	16.0	83.4	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	3.283	2.598	1.968	2.362	2.362
	EXN08MC5	M50x1.5	33.0	48.0	16.0	96.6	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.803	3.031	2.362	2.755	2.952
	EXN09MC5	M63x1.5	36.0	52.0	16.0	109.5	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	4.311	3.031	2.755	2.755	2.913
	EXN04AC5	1/2"	8.5	16.0	16.0	70.0	33.0	30.0	30.0	30.0
			0.335	0.630	0.630	2.756	1.299	1.181	1.181	1.181
	EXN05AC5	3/4"	16.0	21.0	16.0	72.1	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.838	1.456	1.338	1.338	1.338
	EXN06AC5	1"	16.0	26.0	16.0	76.0	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.992	1.771	1.653	1.653	1.574
	EXN07AC5	1 1/4"	29.0	41.0	16.0	83.4	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	3.283	2.598	1.968	2.362	2.362
	EXN08AC5	1 1/2"	33.0	48.0	16.0	96.6	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.803	3.031	2.362	2.755	2.952
	EXN09AC5	2"	36.0	52.0	16.0	109.5	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	4.311	3.031	2.755	2.755	2.913

EXN for nickel plated

Jacketed metal-clad cable fittings for hazardous locations

ST Series



ST Series - Jacketed metal-clad cable glands

Features and benefits:

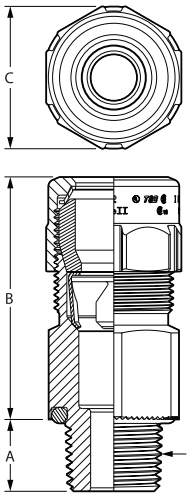
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disasembly
- “Pop-on” fitting (no disassembly) saves installer time.
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

Approvals & certifications	Conformity Conforms to:
	CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50
	c-CSA-us Certificate: 1105555 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)
	Ex e II
	UL File: E38947
	Class I, Zone 1, AEx e II
	Suitable for Class I Div2, Class II Div2 and Class III Div2

Temperature range
– 40 to +90°C (–40°F to +194°F)

IP Rating	Material
Type 4X	Copper free aluminium
	Zinc plated steel
	Stainless steel

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	ST038-461S*	3/8"	8.74	13.59	6.20	11.05	11.68	51.31	25.27
			0.344	0.535	0.244	0.435	0.460	2.020	0.995
	ST050-462	1/2"	13.34	16.51	10.54	14.48	15.75	51.31	34.13
			0.525	0.650	0.415	0.570	0.620	2.020	1.344
	ST050-464	1/2"	15.24	19.30	12.45	17.27	15.75	51.31	34.13
			0.600	0.760	0.490	0.680	0.620	2.020	1.344
	ST050-465	1/2"	18.42	22.48	15.62	20.45	15.75	54.10	42.07
			0.725	0.885	0.615	0.805	0.620	2.130	1.656
	ST050-466	1/2"	20.96	25.02	18.16	22.99	15.75	54.10	42.07
			0.825	0.985	0.715	0.905	0.620	2.130	1.656
	ST075-467	3/4"	22.35	27.05	19.56	25.02	16.00	62.23	53.18
			0.880	1.065	0.770	0.985	0.630	2.450	2.094
	ST075-468	3/4"	26.04	30.61	23.24	28.58	16.00	62.23	53.18
			1.025	1.205	0.915	1.125	0.630	2.450	2.094
	ST100-469	1"	30.15	34.93	27.36	32.89	19.94	66.04	61.91
			1.187	1.375	1.077	1.295	0.785	2.600	2.438
	ST125-470	1 1/4"	34.29	41.28	31.50	39.24	20.57	83.31	76.20
			1.350	1.625	1.240	1.545	0.810	3.280	3.000

Jacketed metal-clad cable fittings for hazardous locations

ST Series

Dimensions



NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	ST125-550	1¼"	38.10	41.28	35.31	39.24	20.57	83.31	76.20
			1.500	1.625	1.390	1.545	0.810	3.280	3.000
	ST125-471	1/2"	40.64	47.63	37.85	45.59	20.57	83.31	76.20
			1.600	1.875	1.490	1.795	0.810	3.280	3.000
	ST150-472	1/2"	43.18	49.91	40.39	47.88	20.96	91.95	87.31
			1.700	1.965	1.590	1.885	0.825	3.620	3.438
	ST150-473	1/2"	48.26	55.55	45.47	53.52	20.96	91.95	87.31
			1.900	2.187	1.790	2.107	0.825	3.620	3.438
	ST200-551	1/2"	48.26	55.55	45.47	53.52	21.84	92.46	96.84
			1.900	2.187	1.790	2.107	0.860	3.640	3.813
	ST200-474	3/4"	53.34	60.33	50.55	57.91	21.84	92.46	96.84
			2.100	2.375	1.990	2.280	0.860	3.640	3.813
	ST200-475	3/4"	58.42	65.15	55.63	63.12	21.84	92.46	106.36
			2.300	2.565	2.190	2.485	0.860	3.640	4.188
	ST200-476	3/4"	63.50	69.85	60.71	67.46	21.84	92.46	106.36
			2.500	2.750	2.390	2.656	0.860	3.640	4.188
	ST250-477	3/4"	60.45	67.06	56.90	65.02	32.51	119.38	121.44
			2.380	2.640	2.240	2.560	1.280	4.700	4.781
	ST250-478	3/4"	65.53	72.14	61.98	69.85	32.51	119.38	121.44
			2.580	2.840	2.440	2.750	1.280	4.700	4.781
	ST300-479	3/4"	70.87	77.72	67.06	75.44	34.04	119.38	129.38
			2.790	3.060	2.640	2.970	1.340	4.700	5.094
	ST300-480	3/4"	76.20	83.06	72.90	81.03	34.04	121.67	139.70
			3.000	3.270	2.870	3.190	1.340	4.790	5.500
	ST300-481	3/4"	81.53	88.39	77.27	86.11	34.04	121.67	139.70
			3.210	3.480	3.042	3.390	1.340	4.790	5.500
	ST350-482	3/4"	86.87	93.73	83.06	91.19	35.31	121.67	153.19
			3.420	3.690	3.270	3.590	1.390	4.790	6.031
	ST350-483	3/4"	91.69	98.30	87.38	95.76	35.31	121.67	153.19
			3.610	3.870	3.440	3.770	1.390	4.790	6.031
	ST400-484	1"	96.77	102.36	91.44	99.82	36.58	122.94	166.69
			3.810	4.030	3.600	3.930	1.440	4.840	6.563
	ST400-485	1 1/4"	100.71	106.30	95.38	103.25	36.58	122.94	166.69
			3.965	4.185	3.755	4.065	1.440	4.840	6.563
	ST400-486	1 1/4"	104.65	110.24	99.31	107.19	36.58	122.94	166.69
			4.120	4.340	3.910	4.220	1.440	4.840	6.563

Jacketed metal-clad cable fittings for ordinary locations

STE Series



STE Series - Jacketed metal-clad cable glands

Features and benefits:

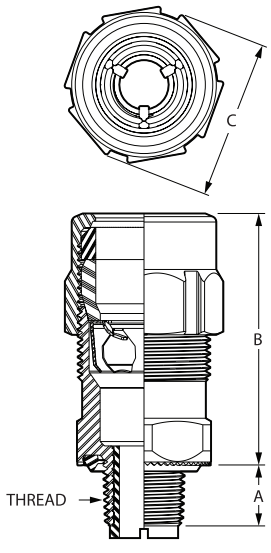
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disasembly
- Extended clamping range taking
- Provides grounding continuity of cable armor

Approvals & certifications	Conformity Conforms to:
	CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50
	c-CSA-us Certificate: 1105555 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)
	Ex e II
	UL File: E38947
	Class I, Zone 1, AEx e II
	Suitable for Class I Div2, Class II Div2 and Class III Div2

Temperature range
– 40°C to +90°C (–40°F to +194°F)

IP Rating	Material
Type 4X	Copper free aluminium
	Zinc plated steel
	Stainless steel

DImensions

NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	STE050 DATA	1/2"	12.70	17.78	10.41	15.49	15.75	53.34	34.54
			0.500	0.700	0.410	0.610	0.620	2.100	1.360
	STE050	1/2"	15.24	25.02	13.21	22.73	15.75	64.01	41.40
			0.600	0.985	0.520	0.895	0.620	2.520	1.630
	STE075	3/4"	21.84	30.61	19.81	28.58	16.00	72.14	52.83
			0.860	1.205	0.780	1.125	0.630	2.840	2.080
	STE100	1"	24.13	34.93	22.10	32.89	19.94	76.71	58.42
			0.950	1.375	0.870	1.295	0.785	3.020	2.300
	STE125	1 1/4"	29.21	41.28	25.15	37.21	20.57	101.85	71.63
			1.150	1.625	0.990	1.465	0.810	4.010	2.820
	STE150	1 1/2"	36.58	49.91	32.51	45.85	20.96	108.97	82.55
			1.440	1.965	1.280	1.805	0.825	4.290	3.250
	STE200	2"	46.36	60.33	42.29	56.26	21.84	104.65	91.44
			1.825	2.375	1.665	2.215	0.860	4.120	3.600
	STE250	2 1/2"	57.53	72.14	53.47	68.07	32.51	144.02	120.65
			2.265	2.840	2.105	2.680	1.280	5.670	4.750
	STE300	3"	67.82	83.06	64.64	79.88	33.66	146.81	137.16
			2.670	3.270	2.545	3.145	1.325	5.780	5.400
	STE350	3 1/2"	81.79	98.30	78.49	92.46	35.31	145.80	149.86
			3.220	3.870	3.090	3.640	1.390	5.740	5.900
	STE400	4"	93.09	110.24	90.17	107.32	35.31	147.07	162.56
			3.665	4.340	3.550	4.225	1.390	5.790	6.400

Star Teck Extreme® Director™ for ordinary applications

STED Series



Features and benefits:

- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disasembly
- Extended clamping range taking
- Provides grounding continuity of cable armor

STED Series - Jacketed metal-clad cable glands

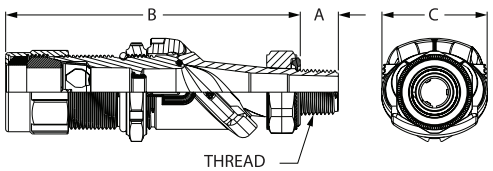
Approvals & certifications	Conformity Conforms to:
	CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50
	c-CSA-us Certificate: 1105555 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)
	Ex e II
	UL File: E38947
	Class I, Zone 1, AEx e II
	Suitable for Class I Div 2, Class II Div 2 and Class III Div 2

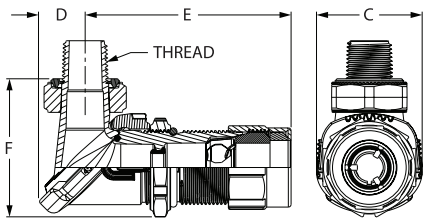
Temperature range
– 40°C to +90°C (–40°F to +194°F)

IP Rating	Material
Type 4X	Copper free aluminium
	Zinc plated steel
	Stainless steel

DImensions

			Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)					
NPT thread	Part no.	NPT thread	Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	E Min	F Min
	STED050	1/2"	15.24	22.48	13.21	20.19	17.46	136.53	49.21	20.64	96.84	63.50
			0.600	0.885	0.520	0.795	0.688	5.375	1.938	0.813	3.813	2.500
	STED075	3/4"	21.84	30.61	19.81	28.58	17.46	168.40	63.50	26.99	101.60	76.20
			0.860	1.205	0.780	1.125	0.688	6.630	2.500	1.063	4.000	3.000





Star Teck XP® jacketed metal-clad cable fittings for hazardous locations

STX Series



Features and benefits:

- Excellent solution for hazardous location
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disasembly
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

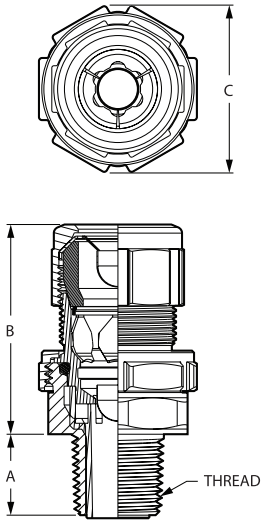
STX Series - Jacketed metal-clad cable glands

Approvals & certifications	Conformity Conforms to:
	CSA C22.2 No.18.3, C22.2 No.25, C22.2 No.30. C22.2 No. 174, UL2225, UL514B
	CSA Certificate: 1310604 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1
	UL: E82038
	Class I Div1 ABCD Class II Div1 EFG Class III Div1

Temperature range
– 40°C to +90°C (–40°F to +194°F)

IP Rating	Material
Type 4 / 4X	Copper free aluminium
	Zinc plated steel
	PVC coating available for both

DImensions

NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	STX050-462	1/2"	13.34	16.51	10.54	14.48	20.07	63.50	41.40
			0.525	0.650	0.415	0.570	0.790	2.500	1.630
	STX050-464	1/2"	15.24	19.30	12.45	17.27	20.07	63.50	41.40
			0.600	0.760	0.490	0.680	0.790)	2.500	1.630
	STX075-465	3/4"	18.42	22.48	15.62	20.45	20.07	66.55	46.23
			0.725	0.885	0.615	0.805	0.790	2.620	1.820
	STX075-466	3/4"	20.96	25.02	18.16	22.99	20.07	66.55	46.23
			0.825	0.985	0.715	0.905	0.790	2.620	1.820
	STX100-467	1"	22.35	27.05	19.56	25.02	25.02	71.88	61.98
			0.880	1.065	0.770	0.985	0.985	2.830	2.440
	STX100-468	1"	26.04	30.61	23.24	28.58	25.02	71.88	61.98
			1.025	1.205	0.915	1.125	0.985	2.830	2.440
	STX125-469	1 1/4"	30.15	34.93	27.36	32.89	25.65	77.47	64.01
			1.187	1.375	1.077	1.295	1.010	3.050	2.520
	STX150-470	1 1/2"	34.29	41.28	31.50	39.24	26.16	95.50	83.31
			1.350	1.625	1.240	1.545	1.030	3.760	3.280
	STX150-550	1 1/2"	38.10	41.28	35.31	39.24	26.16	95.50	83.31
			1.500	1.625	1.390	1.545	1.030	3.760	3.280
	STX150-471	1 1/2"	40.64	47.63	37.85	45.59	26.16	95.50	83.31
			1.600	1.875	1.490	1.795	1.030	3.760	3.280
	STX200-472	2"	43.18	49.91	40.39	47.88	26.92	102.87	92.46
			1.700	1.965	1.590	1.885	1.060	4.050	3.640
	STX200-473	2"	48.26	55.55	45.47	53.52	26.92	102.87	92.46
			1.900	2.187	1.790	2.107	1.060	4.050	3.640

Star Teck XP® for hazardous locations

STX Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	STX200-474	2"	53.34	60.33	50.55	57.91	26.92	105.41	102.87
			2.100	2.375	1.990	2.280	1.060	4.150	4.050
	STX250-475	2 1/2"	58.42	65.15	55.63	63.12	40.13	109.47	115.32
			2.300	2.565	2.190	2.485	1.580	4.310	4.540
	STX250-476	2 1/2"	63.50	69.85	60.71	67.46	40.13	109.47	115.32
			2.500	2.750	2.390	2.656	1.580	4.310	4.540
	STX300-478	3"	65.53	72.14	61.98	69.85	41.66	143.26	125.22
			2.580	2.840	2.440	2.750	1.640	5.640	4.930
	STX300-479	3"	70.87	77.72	67.06	75.44	41.66	147.32	133.35
			2.790	3.060	2.640	2.970	1.640	5.800	5.250
	STX350-480	3 1/2"	76.20	83.06	72.90	81.03	42.93	160.53	147.07
			3.000	3.270	2.870	3.190	1.690	6.320	5.790
	STX350-481	3 1/2"	81.53	88.39	77.27	86.11	42.93	160.53	147.07
			3.210	3.480	3.042	3.390	1.690	6.320	5.790
	STX400-482	4"	86.87	93.73	83.06	91.19	44.20	168.40	157.23
			3.420	3.690	3.270	3.590	1.740	6.630	6.190
	STX400-483	4"	91.69	98.30	87.38	95.76	44.20	168.40	157.23
			3.610	3.870	3.440	3.770	1.740	6.630	6.190
	STX400-484	4"	96.77	102.36	91.44	99.82	44.20	180.09	175.26
			3.810	4.030	3.600	3.930	1.740	7.090	6.900
	STX400-485	4"	100.71	106.30	95.38	103.25	44.20	180.09	175.26
			3.965	4.185	3.755	4.065	1.740	7.090	6.900

Star Teck XP® jacketed metal-clad cable fittings for hazardous locations

STEX Series



Features and benefits:

- Excellent solution for hazardous location
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disasembly
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

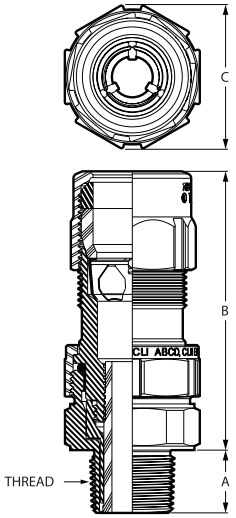
STEX Series - Jacketed metal-clad cable glands

Approvals & certifications	Conformity Conforms to:
	CSA C22.2 No.18.3, C22.2 No.25, C22.2 No.30. C22.2 No. 174, UL2225, UL514B
	CSA Certificate: 1310604 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1
	UL File: E82038
	Class I Div1 ABCD Class II Div1 EFG Class III Div1

Temperature range
– 40°C to +90°C (–40°F to +194°F)

IP Rating	Material
Type 4 / 4X	Copper free aluminium
	Zinc plated steel
	PVC coating available for both

Dimensions



NPT thread	Part no.	NPT thread	Cable range over jacket Min. (mm/in)	Cable range over jacket Max. (mm/in)	Cable range over armour Min. (mm/in)	Cable range over armour Max. (mm/in)	Nominal dimensions (mm/in) A Min	B Min	C Min
	STEX075	3/4"	15.24	25.02	13.21	22.73	20.07	86.36	46.23
			0.600	0.985	0.520	0.895	0.790	3.400	1.820
	STEX100	1"	21.84	30.61	19.81	28.58	25.02	90.93	61.98
			0.860	1.205	0.780	1.125	0.985	3.580	2.440
	STEX125	1 1/4"	24.13	34.93	22.10	32.89	25.65	99.57	64.01
			0.950	1.375	0.870	1.295	1.010	3.920	2.520
	STEX150	1 1/2"	29.21	41.28	25.15	37.21	26.16	127.51	83.31
			1.150	1.625	0.990	1.465	1.030	5.020	3.280
	STEX200	2"	36.58	49.91	32.51	45.85	26.92	130.05	92.46
			1.440	1.965	1.280	1.805	1.060	5.120	3.640
	STEX250	2 1/2"	46.36	60.33	42.29	56.26	40.13	131.32	115.32
			1.825	2.375	1.665	2.215	1.580	5.170	4.540
	STEX300	3"	57.53	72.14	53.47	68.07	41.66	167.89	125.22
			2.265	2.840	2.105	2.680	1.640	6.610	4.930
	STEX350	3 1/2"	67.82	83.06	64.64	79.88	42.93	187.45	147.07
			2.670	3.270	2.545	3.145	1.690	7.380	5.790
	STEX400	4"	81.79	98.30	78.49	92.46	44.20	194.31	157.23
			3.220	3.870	3.090	3.640	1.740	7.650	6.190

Ex d Standard stopping plug

SP Series



SP Series - Stopping plugs - 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)
	EAC Ex: RU C-GB AA87.00198
	CNEX 15.1691X
	Ⓔ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
Brass, nickel plated brass or stainless steel

Standard Ex d stopping plug – metric thread

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

Standard Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Brass Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
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

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

Ex d Tamperproof stopping plug

TSP Series



SP Series - Stopping plugs - 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)
	EAC Ex: RU C-GB AA87.00198
	CNEX 15.1691X
	Ex 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
Brass, nickel plated brass or stainless steel

Tamperproof Ex d stopping plug – metric thread

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

Tamperproof Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Brass Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
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

* For unplated brass version, remove N from reference, e.g. EX/M16/TSP ** For stainless steel 316 version, add S to the reference, e.g. EXS/M16/TSP
N.B. PG thread convertors available upon request

Ex d e Hex head stopping plug

HSP Series



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

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0325X
	IECEx: IECEx BAS08.0108X
	EAC Ex: RU C-GB AA87.00198
	CNEX: CNEX 15.1656X
	Ⓔ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	Brass, nickel plated brass or stainless steel

Hex head Ex e stopping plug – metric thread

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

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

Ex d e Dome head stopping plug

DSP Series



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

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa08ATEX0325X
	IECEx: IECEx BAS08.0108X
	EAC Ex: RU C-GB AA87.00198
	CNEX: CNEX 15.1656X
	Ⓔ 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	Brass, nickel plated brass or stainless steel

Dome head Ex e stopping plug – metric thread

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

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

Ex e Nylon stopping plug



Ex e Nylon stopping plugs

Approvals & certifications	Conformity Conforms to:
	IMQ 13 ATEX 016X, IECEx IMQ
	⟨Ex⟩ 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 stopping plug – metric thread

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

Ex d e Thread adaptors

TC Series



TC Series - Ex d e thread adaptors

Approvals & certifications	Conformity Conforms to:
	ATEX: Baseefa07 ATEX 0247X
	IECEx: IECEx BAS07.0090X
	EAC Ex: RU C-GB AA87.00198
	CNEX: CNEX 15.1689X
	I M2 / II 2 GD, Ex d e I Mb, Ex d 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)
	UL 1203
	CSA C22.2 No.60079-04
	C22.2 No.60079-1

Temperature range
–60°C to + 100°C (–76°F to +212°F)

Material
Brass, nickel plated brass or stainless steel

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

Ex d e Thread adaptors

TC Series

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	

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
Brass, nickel plated brass or stainless steel

Ex d e Coupler - Metric thread

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

Brass Part no.	Metric Thread Size (mm)
EX/M16/C	M16
EX/M20/C	M20
EX/M25/C	M25
EX/M32/C	M32
EX/M40/C	M40
EX/M50/C	M50
EX/M63/C	M63
EX/M75/C	M75

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

Ex d e Female to female coupler - NPT thread

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

Brass Part no.	NPT Thread Size (in)
EX/038/C	3/8
EX/050/C	1/2
EX/075/C	3/4
EX/100/C	1
EX/125/C	1 1/4
EX/150/C	1 1/2
EX/200/C	2
EX/250/C	2 1/2

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

Ex e Drain valves

Ex e drainage device



DV Series - Ex e metallic drain valve

Features and benefits:

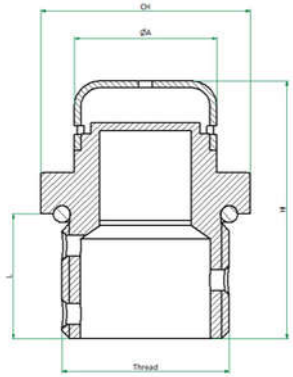
- Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- Allows Water/Condensation to drain from enclosure

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

Type LNB / LNS / LNP & 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	
M50	LNB/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)	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

Type LNP - Non metallic locknuts



	Part no.	
Metric thread	Black	Grey
M12	LNPB/M12	–
M16	LNPB/M16	LNPB/M16
M20	LNPB/M20	LNPG/M20
M25	LNPB/M25	LNPG/M25
M32	LNPB/M32	LNPG/M32
M40	LNPB/M40	LNPG/M40
M50	LNPB/M50	LNPG/M50
M63	LNPB/M63	LNPG/M63

	Part no.	
PG thread	Black	Grey
PG7	LNPB/PG7	LNPG/PG7
PG9	LNPB/PG9	LNPG/PG9
PG11	LNPB/PG11	LNPG/PG11
PG13	LNPB/PG13	LNPG/PG13
PG16	LNPB/PG16	LNPG/PG16
PG21	LNPB/PG21	LNPG/PG21
PG29	LNPB/PG29	LNPG/PG29
PG36	LNPB/PG36	LNPG/PG36
PG42	LNPB/PG42	LNPG/PG42
PG48	LNPB/PG48	LNPG/PG48

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

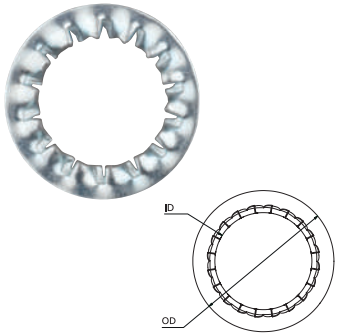
Coupler, serrated washer & earth tag

Brass internal female coupler



Metric thread	Part no.
M16	B/M16/C
M20	B/M20/C
M25	B/M25/C
M32	B/M32/C
M40	B/M40/C
M50	B/M50/C
M63	B/M63/C
M75	B/M75/C

Serrated washer - metric



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

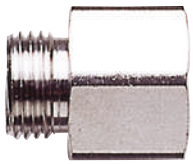
Earth tag - metrtic



Part no.	A	B	Diameter (mm) 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

Accessories

Type E, R & TC


Type E / Type R / Type C -Enlargers, reducers and converters

External thread	To PG7 Internal thread	To PG9 Internal thread	To PG11 Internal thread	To PG13.5 Internal thread	To PG16 Internal thread	To PG21 Internal thread
M16	B/M16-PG7/TC	B/M16-PG9/TC	B/M16-PG11/TC			
M20	B/M20-PG7/TC	B/M20-PG9/TC	B/M20-PG11/TC	B/M20-PG13/TC	B/M20-PG16/TC	B/M20-PG21/TC
M25						B/M25-PG21/TC
M32						
M40						
M50						
PG7		B/PG7-PG9/E				
PG9	B/PG9-PG7/R		B/PG9-PG11/E	B/PG9-PG13/E		
PG11	B/PG11-PG7/R	B/PG11-PG9/R		B/PG11-PG13/E	B/PG11-PG16/E	
PG13,5	B/PG13-PG7/R	B/PG13-PG9/R	B/PG13-PG11/R		B/PG13-PG16/E	B/PG13-PG21/E
PG16	B/PG16-PG7/R	B/PG16-PG9/R	B/PG16-PG11/R	B/PG16-PG13/R		B/PG16-PG21/E
PG21			B/PG21-PG11/R	B/PG21-PG13/R	B/PG21-PG16/R	
PG29					B/PG29-PG16/R	B/PG29-PG21/R
PG36						B/PG36-PG21/R
PG42						
PG48						

External thread	To M10 Internal thread	To M12 Internal thread	To M16 Internal thread	To M20 Internal thread	To M25 Internal thread	To M32 Internal thread
M16		B/M16-M12/R		B/M16-M20/E		
M20	B/M20-M10/R	B/M20-M12/R	B/M20-M16/R		B/M20-M25/E	
M25				B/M25-M20/R		B/M25-M32/E
M32					B/M32-M25/R	
M40						B/M40-M32/R
M50						
PG7			B/PG7-M16/TC	B/PG7-M20/TC		
PG9			B/PG9-M16/TC	B/PG9-M20/TC		
PG11			B/PG11-M16/TC	B/PG11-M20/TC		
PG13,5			B/PG13-M16/TC	B/PG13-M20/TC		
PG16			B/PG16-M16/TC	B/PG16-M20/TC	B/PG16-M25/TC	
PG21			B/PG21-M16/TC	B/PG21-M20/TC	B/PG21-M25/TC	B/PG21-M32/TC
PG29				B/PG29-M20/TC	B/PG29-M25/TC	B/PG29-M32/TC
PG36						B/PG36-M32/TC
PG42						
PG48						
			B/050-M16/TC	B/050-M20/TC		

To PG29 Internal thread	To PG36 Internal thread	To PG42 Internal thread	To PG48 Internal thread
B/M32-PG29/TC			
B/PG21-PG29/E			
	B/PG29-PG36/E		
B/PG36-PG29/R		B/PG36-PG42/E	B/PG36-PG48/E
B/PG42-PG29/R	B/PG42-PG36/R		B/PG42-PG48/E
	B/PG48-PG36/R	B/PG48-PG42/R	

To M40 Internal thread	To 1/2" NPT Internal thread
	B/M20-050/TC
B/M50-M40/R	
	B/PG11-050/TC
	B/PG16-050/TC
B/PG29-M40/TC	
B/PG36-M40/TC	

Accessories

Boots



Long

Part no.	Diameter (mm)	Diameter (in)	Height (mm)	Height (in)
BT01	29.1	1.146	67.0	2.638
BT02	31.7	1.248	68.0	2.677
BT03	35.2	1.386	76.6	3.016
BT04	37.2	1.465	78.6	3.094
BT05	44.2	1.74	81.6	3.213
BT06	57.2	2.252	112.0	4.409
BT07	66.2	2.606	117.1	4.61
BT08	82.2	3.236	132.6	5.22
BT09	83.2	3.276	132.6	5.22
BT10	89.7	3.531	148.0	5.827
BT11	94.2	3.709	143.8	5.661
BT12	110.6	4.354	182.7	7.193

Short

Part no.	Diameter (mm)	Diameter (in)	Height (mm)	Height (in)
BTS01	24.5	0.965	56.1	2.209
BTS02	31.0	1.22	67.5	2.657
BTS03	39.0	1.535	72.6	2.858
BTS04	49.5	1.949	91.7	3.61
BTS05	56.1	2.209	88.0	3.465
BTS06	61.0	2.402	88.0	3.465
BTS07	70.1	2.76	93.9	3.697
BTS08	74.9	2.949	95.5	3.76
BTS09	89.0	3.504	108.6	4.276
BTS10	105.0	4.134	126.3	4.972
BTS11	117.0	4.606	163.5	6.437

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	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
US	NEC	UL514B - Fittings UL360 - Electrical Conduit UL1696 - Protective Tubing	UL UR	UL2225 -xxxx UL1203 - xxxx	UL
Canada	CEC	CSA C22.2-18.3 - Fittings CSA C22.2-54-04 - Electrical Conduit CSA C22.2-227.3 - Protective Tubing	CSA	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



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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		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	
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

Index of ingress protection
IEC 60529 IP Rating and NEMA 250 Enclosures

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

—
01 **IP Ratings**
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.

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01



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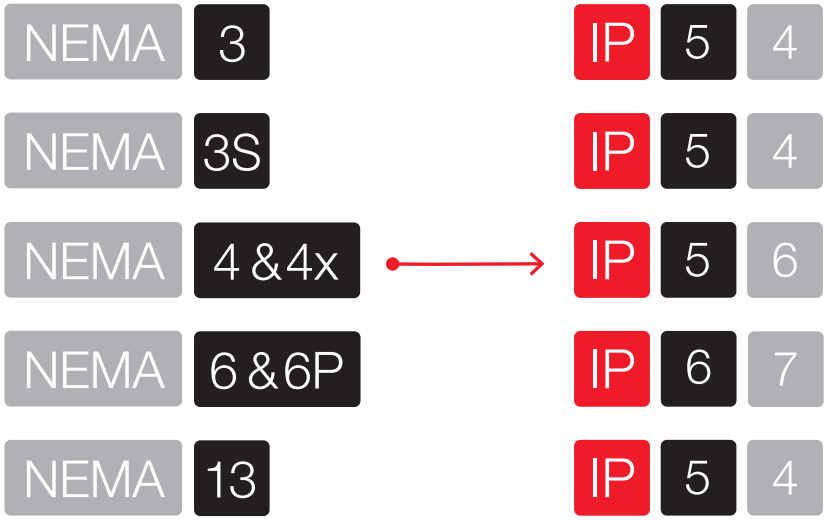
Conversion of NEMA enclosure type ratings to IEC 60529 enclosure Classification Designations (IP)
(Cannot be used to convert Classification Designations to NEMA type ratings)

IP 1st Character	1		2		3, 3X, 3S, 3SX		3R, 3RX		4,4X		5		6		6P		12, 12K, 13		IP 2nd Character
IP0_																			IP0_0
IP1_																			IP0_1
IP2_																			IP0_2
IP3_																			IP0_3
IP4_																			IP0_4
IP5_																			IP0_5
IP6_																			IP0_6
																			IP0_7
																			IP0_8
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	

—

NEMA 250 to IEC 60529



Standards, zone definitions & product markings

IEC - Groups and Zones System

Classifications of hazardous areas

Classifications of hazardous areas		Descriptions	ATEX Group	ATEX Category	EPL	Equipment usage
Mining	Energized	Persistent risk of methane gas and other dusts	**I**	**M1**	**Ma**	
	De-energized		**I**	**M2**	**Mb**	
Gas environments	**Zone 0**	Persistent and continuous presence of gas for frequent or long periods	**II**	**1G**	**Ga**	ATEX Equipment Category **1G**, Equipment Protection Level **Ga**
	Zone 1	Likely occurrence of gas presence in normal operation	**II**	**2G**	**Gb**	ATEX Equipment Category **2G or higher**, Equipment Protection Level **Gb or higher**
	Zone 2	Unlikely occurrence 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 occurrence of dust presence in normal operation	**II**	**2D**	**Db**	ATEX Equipment Category **2D or higher**, Equipment Protection Level **Db or higher**
	Zone 22	Unlikely occurrence 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.

—
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**	Pressurization	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 breathing		Ex nC		

Standards, zone definitions & product markings

Zone definitions – Onshore gases & vapor

Zone 0

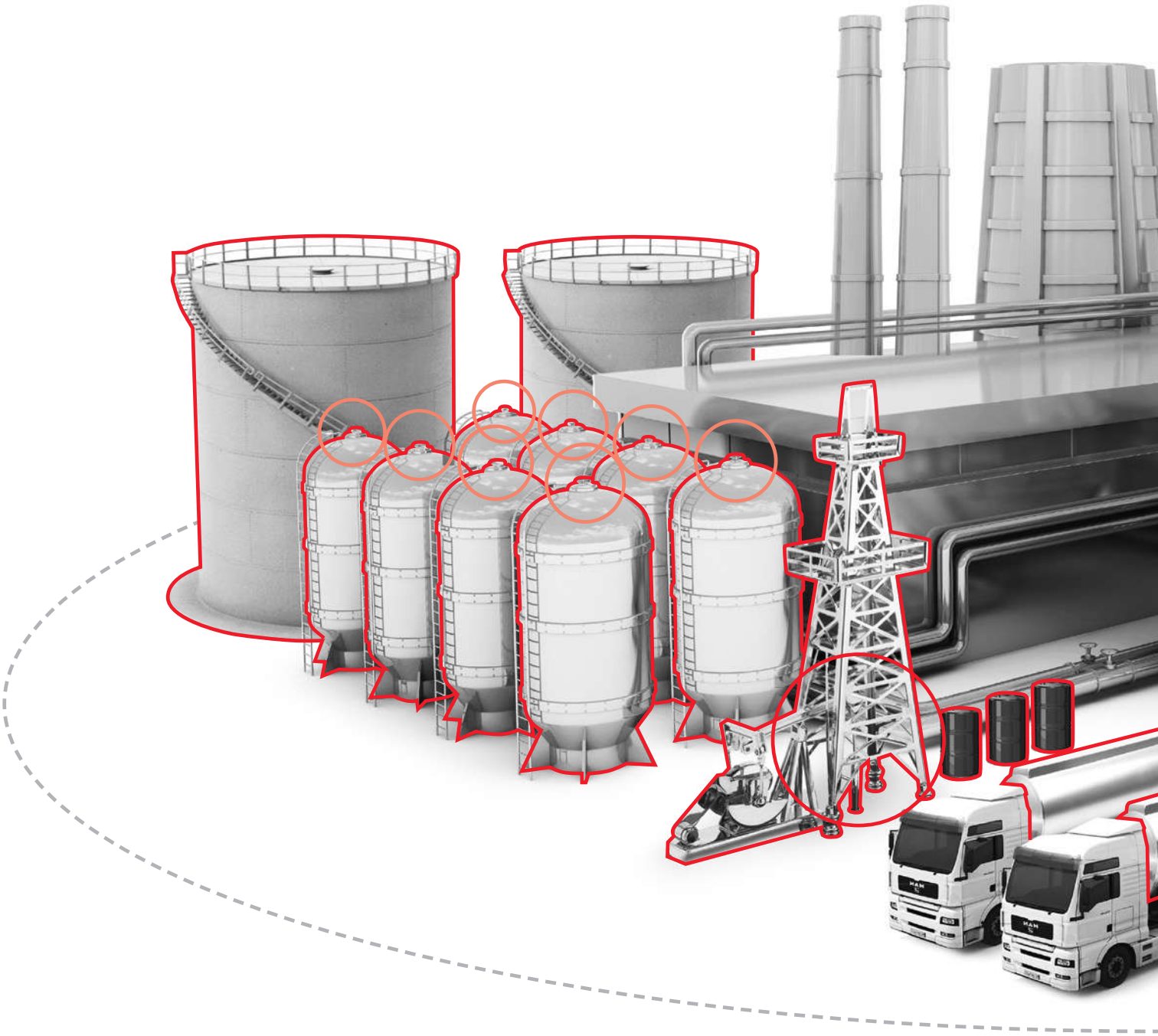
Permanent / Frequent

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

Zone 1

Occasional

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



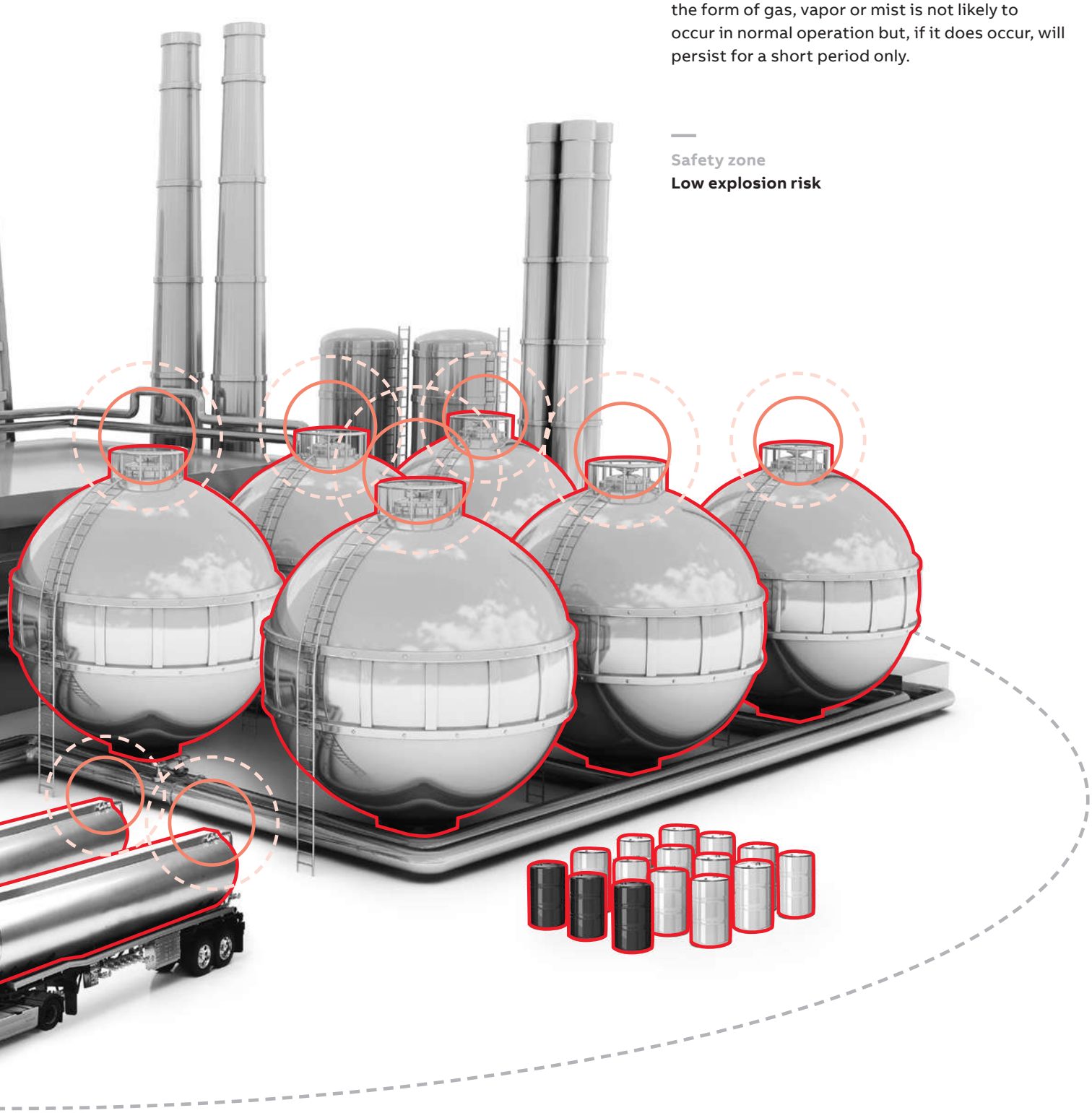
Zone 2

Gas irregular / Short duration

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor 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

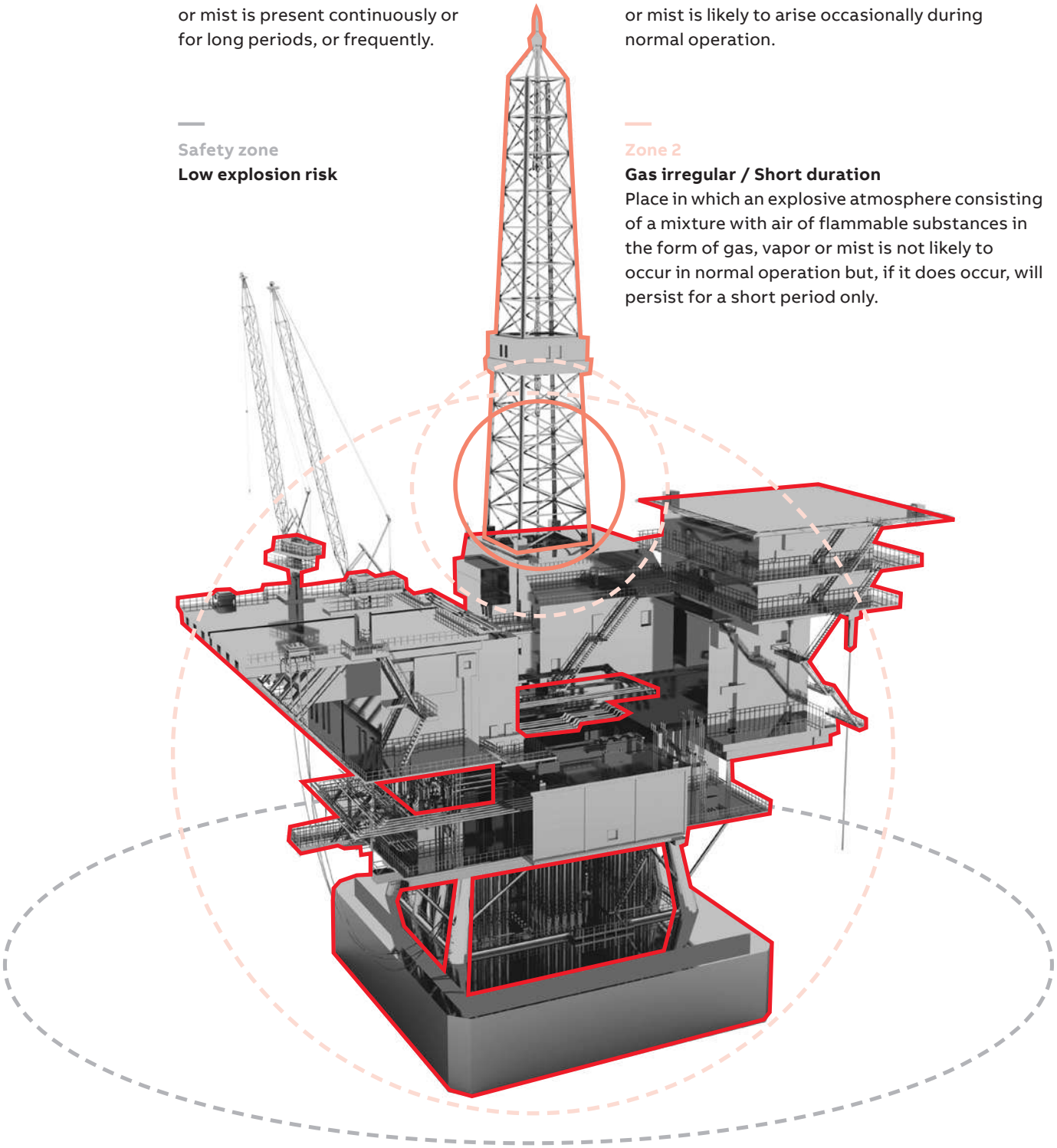
Zone definitions – Offshore gases & vapor

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

Zone 1
Occasional
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.

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, vapor 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

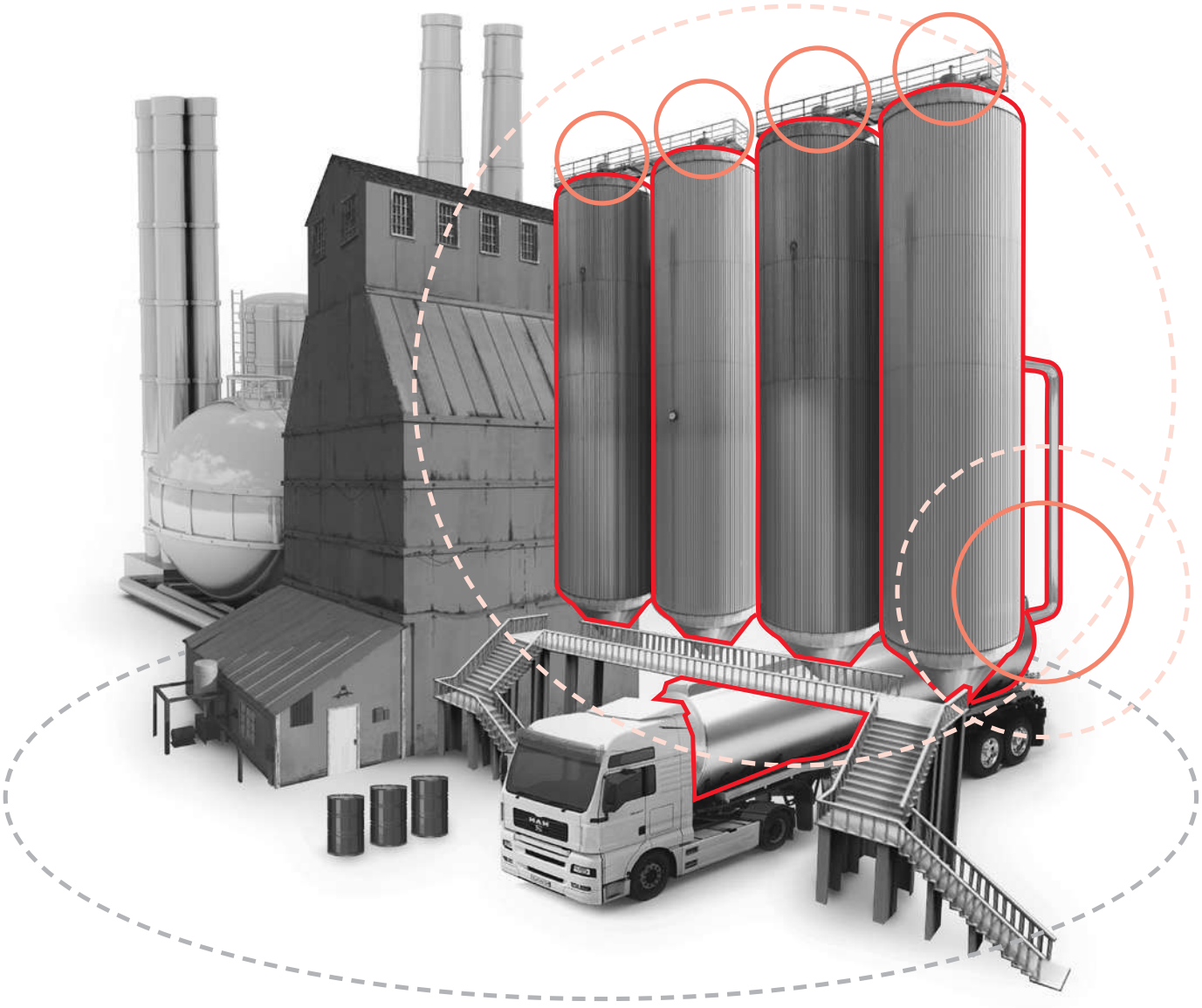
Zone definitions – Dust

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
No Explosion Risk



Standards, zone definitions & product markings

NEC - Class and Division System

Classifications of hazardous areas

Classifications of hazardous areas			Descriptions	Equipment Usage	Comparison
Mining			Not covered in the NEC. See MSHA, Specific requirements for Mining Equipment and Safety Standards.		
Gas environments	**Class I**	**Division 1**	1. Ignitable concentrations of gases can exist under normal operating conditions. 2. Ignitable concentrations of gases may exist frequently because of repair, maintenance, leakage. 3. Equipment breakdown or faulty operation that may create both an ignitable gas release and a source of ignition from electric equipment failure .	Class I Div 1	Zone 0 Zone 1
		Division 2	1. Gases are normally confined to within closed containers or closed systems requiring accidental rupture, breakdown or abnormal operation for escape. 2. Where ignitable concentrations of gases are normally prevented by positive pressure ventilation. 3. Location adjacent to a Class I Division 1 location where ignitable concentrations of gases might occasionally be communicated.	Class I Div 1 and Class I Div 2	Zone 2
Dust environments	**Class II**	**Division 1**	1. Combustible dust is in the air under normal operating conditions sufficient to product explosive or ignitable mixtures. 2.Mechanical failure or abnormal operation might simultaneously produce ignitable mixtures and an electrical source of ignition. 3. Group E combustible dusts may be present in sufficient quantities.	Class II Div 1	Zone 20 Zone 21
		Division 2	1. Combustible dust due to abnormal operations may be present in the air in quantities sufficient to produce explosive or ignitable mixtures. 2. Sufficient dust accumulations could become suspended in air by equipment malfunction. 3. Dust accumulations could be ignitable due to electrical equipment overheating, abnormal operation or failure.	Class II Div 1 and Class II Div 2	Zone 22
Fibres and Flyings environments	**Class III**	**Division 1**	Easily ignitable fibres and flyings are handled, manufactured or used	Class III Div 1	Zone 20 Zone 21
		Division 2	Easily ignitable fibres and flyings are stored or handled other than in the process of manufacture	Class III Div 1 and Class III Div 2	Zone 22

Standards, zone definitions & product markings

NEC - Class and Division System

Gas & dust groups

Group		Typical	Examples
Gases	**A**	Acetylene	Acetylene is the only gas in Group A
	B	Hydrogen	Acrolein, Butadiene, Ethylene Oxide, Formaldehyde (gas), Process Gas , Propyl Nitrate
	C	Ethylene	Acetaldehyde, Diethyl Ether, Hydrogen Sulphidel
	D	Propane	Acrylonitrile, Ammonia, Butane, Fuel Oil 1, Gasoline, Heptane, Methane,
Dusts	**E**	Combustible metal dusts	Aluminium, Magnesium
	F	Combustible carbonaceous dusts that have more than 8% total entrapped volatiles	Coal, Carbon Black, Charcoal, Coke
	G	Combustible dusts not included in Group E or F	Flour, Grain, Wood (saw dust), Plastic, Chemicals
Fibers & Flyings	**No Groups**	Fibres/flyings ("big dust") not in suspension in ignitable quantities	Wood shaving, Rayon, Cotton

Protection Concepts	Techniques (Types)	ANSI (UL) /CSA Standards		Class I	Class II	Class III
By Enclosure	Explosion proof	ANSI / UL 1203	UL 60079-1	1 or 2		
	Dust Ignition proof	ANSI / UL 1203	UL 60079-31		1 or 2	
By Exclusion	Purged and Pressurized	ANSI/NFPA 496	UL 60079-2	1 or 2	1 or 2	1 or 2
By Equipment	Intrinsic Safety*	ANSI/UL 913	UL 60079-11	1 or 2	1 or 2	1 or 2
	Nonincendive (circuit, equipment, component)	ANSI / ISA-12.12.01	UL 60079-15	2	2	1 or 2
	Oil Immersion		UL 60079-6	2		
	Hermetically Sealed	ANSI / ISA-12.12.01	UL 60079-18	2	2	1 or 2
	Combustible Gas Detection System	ANSI/UL 2075; ANSI/ISA-60079-29-1	UL 60079-29	1 or 2		
	Increased Safety		UL 60079-7	1 or 2		

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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NPG-0501LG	7TCA303070R0026	12
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—
ABB UK Ltd
Tower Court
Foleshill Enterprise Park
Courtaulds Way
Coventry CV6 5NX
UK Sales Support Tel: +44 (0) 2476 368 500
Customer Services E-Mail:
lv.customerservice@gb.abb.com Technical Support E-Mail:
lv.technicalsupport@gb.abb.com

—
US
ABB Installation Products
Electrification business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

abb.com/low-voltage

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