

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Peppers Cable Glands Limited</b>
<b>Address</b>	Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom (UK)
<b>Place of Production</b>	Peppers Cable Glands Limited Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom (UK)
<b>Type</b>	Cable Glands and Approved Accessories
<b>Description</b>	Hazardous area approved cable glands, adaptors, reducers, stopping plugs and breather drains
<b>Application</b>	Marine, Offshore & Industrial
<b>Specified Standard</b>	Refer to Ex certification associated with the specific products for details of applicable standards.  EN/IEC 60079-0 EN/IEC 60079-1 EN/IEC 60079-7 EN/IEC 60079-15 EN/IEC 60079-31 CSA 22.2 UL2225 UL514B

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## Ratings

**\*\*SEE APPENDIX FOR FULL Ex RATING DETAILS\*\***

### ELASTOMERIC SEAL CABLE GLANDS

Product Model:	Types:
CR	CR***, CRD**
E	E*****F*
D	D*****F
A*L	A*L**
A****	A*LDS**, A*RDC**, A*RDF**, A*RDM**
A*LC	A*LC***, A*LCH**, A*LCF**, A*LCM**
A*RC	A*RC***

**Temperature Range:** -35°C TO +90°C - Neoprene Seals;  
-60°C TO +180°C - Silicone Seals.

**IP Rating:** IP66/ IP68

Product Model:	Types:
CR	CRO***
C	C*****E*

**Temperature Range:** -35°C TO +90°C - Neoprene Seals;  
-60°C TO +180°C - Silicone Seals.

**IP Rating:** IP66

Product Model:	Types:
E8	E8X*F, E8XC**F
D8	D8X*F, D8XC**F
A8	A8**, A8C**F, A8RC**

**Temperature Range:** -60°C to +180°C.

**IP Rating:** IP66/ IP68.

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# Type Approval Certificate

**Product Model:** PF  
**Types:** EC\*

**Temperature Range:** Dependent upon size – See IEC/ATEX certificates.  
**IP Rating:** IP6X.

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## **BARRIER CABLE GLANDS**

<b>Product Model:</b>	<b>Types:</b>
CR-C	CRC***
CR-X	CRX***
CR-U	CRU**
CR-S	CRS**
UL-C	UL-C**
UL-X	UL-X*
UL-U	UL-U*
LT-C	LT-C*

**Temperature Range:** -60°C to +135°C.  
**IP Rating:** IP66/ IP68.

<b>Product Model:</b>	<b>Types:</b>
EC*C	EC*C***
EC*S*C	EC*S*C
EC*S*M	EC*S*M
EC*S*F	EC*S*F
EC*U	EC*U*
EC*X	EC*X*

**Temperature Range:** Dependent upon sealing compound - See ATEX/  
IEC certificates.  
**IP Rating:** IP66/ IP68.

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# Type Approval Certificate

## ADAPTORS/ REDUCERS

<b>Product Model:</b>	<b>Types:</b>
AR	AR
ARFF	ARFF
ARMM	ARMM
ARMR / ARFR	ARMR, ARFR
AEMF / AEFF	AEMF, AEFF
ATMF / ATFF	ATMF, ATFF
RA**	RAFF, RAMF, RAMM
RA**90	RAFF 90, RAMF 90, RAMM 90

**Temperature Range:** Dependent upon o-ring seal - See ATEX/ IEC certificates.

**IP Rating:** IP66/ IP68.

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## STOPPING PLUGS

<b>Product Model:</b>	<b>Types:</b>
SPA	SPA
SPB	SPB

**Temperature Range:** -100°C to +400°C.

**IP Rating:** IP66.

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## STOPPING PLUGS

<b>Product Model:</b>	<b>Types:</b>
SPMH	SPMH
SPHH	SPHH
SPMH*NE	SPMH*NE

**Temperature Range:** Dependent upon o-ring seal - See ATEX/ IEC certificates.

**IP Rating:** IP66/ IP68

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# Type Approval Certificate

## **BREATHER DRAINS**

<b>Product Model:</b>	<b>Types:</b>
ACDP	ACDP
ACDP*NE	ACDP*NE

**Temperature Range:** Dependent upon o-ring seal - See ATEX/ IEC certificates.  
**IP Rating:** IP66.

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**\*\*SEE APPENDIX FOR FULL Ex RATING DETAILS\*\***

**Other Conditions** All conditions outlined in the Ex certification for the specific product are to be complied with.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2124442TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

### Appendix

<b>TYPE</b>	Cable Glands and Approved Accessories
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	Product Model	Type No's.	Ex Certification	IP Rating	Temperature Range
<b>Elastomeric Seal Cable Glands</b>	CR	CR***	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		CRD**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		CRO***	Ex eb IIC, Ex ta IIIC	IP66	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	E	E*****F*	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	D	D*****F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	C	C*****E*	Ex eb IIC, Ex ta IIIC	IP66	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	A*L	A*L**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	A****	A*LDS**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*RDC**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*RDF**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*RDM**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	A*LC	A*LC***	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*LCH**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*LCF**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
		A*LCM**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals
	A*RC	A*RC***	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-35°C to +90°C - Neoprene Seals -60°C to +180°C - Silicone Seals

	E8	E8X*F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +180°C	
		E8XC**F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-60°C to +180°C	
	D8	D8X*F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +180°C	
		D8XC**F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-60°C to +180°C	
	A8	A8**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +180°C	
		A8C**F	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-60°C to +180°C	
		A8RC**	Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC		-60°C to +180°C	
	PF	EC*	Ex eb IIC, Ex tb IIIC	IP6X	Dependent upon size - See certificates	
	<b>Barrier Cable Glands</b>	CR-C	CRC***	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C
		CR-X	CRX***	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C
CR-U		CRU**	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C	
CR-S		CRS**	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C	
UL-C		UL-C**	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C	
UL-X		UL-X*	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C	
UL-U		UL-U*	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C	

	LT-C	LT-C*	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	-60°C to +135°C
	EC*C	EC*C***	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
	EC*S*C	EC*S*C	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
	EC*S*M	EC*S*M	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
	EC*S*F	EC*S*F	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
	EC*U	EC*U*	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
	EC*X	EC*X*	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon sealing compound - See certificates
<b>Adaptors / Reducers</b>	AR	AR	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	ARFF	ARFF	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	ARMM	ARMM	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	ARMR / ARFR	ARMR ARFR	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	AEMF / AEFF	AEMF AEFF	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates



	ATMF / ATFF	ATMF ATFF	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	RA**	RAFF RAMF RAMM	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	RA**90	RAFF 90 RAMF 90 RAMM 90	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
<b>Stopping Plugs</b>	SPA	SPA	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC	IP66	-100°C to +400°C
	SPB	SPB	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC	IP66	-100°C to +400°C
	SPMH	SPMH	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	SPHH	SPHH	Ex db I, Ex eb I, Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
	SPMH*NE	SPMH*NE	Ex eb IIC, Ex ta IIIC	IP66 / IP68	Dependent upon o-ring seal - See certificates
<b>Breather Drains</b>	ACDP	ACDP	Ex eb I, Ex eb IIC, Ex ta IIIC	IP66	Dependent upon o-ring seal - See certificate
	ACDP*NE	ACDP*NE	Ex eb IIC, Ex ta IIIC	IP66	Dependent upon o-ring seal - See certificate

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