

## 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>CMP Products Limited</b>
<b>Address</b>	Glasshouse Street, St. Peters, Newcastle-Upon - Tyne, NE6 1BS, United Kingdom
<b>Type</b>	Cable Glands and Approved Accessories
<b>Description</b>	Cable glands for hazardous areas in Marine, offshore and Industrial use
<b>Trade Name</b>	CMP
<b>Application</b>	Cable glands for the installation in ordinary, industrial, and hazardous locations
<b>Ratings</b>	See Appendix for Details

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.

**Previous Version:** 01/00172(E4)

The Design Appraisal Document LR22320739TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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### Appendix

Type	A2F  (including prefix 'R', suffix '-FF', '-FC' & 'HT' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15:2017 (EN:2019), IEC 60079-31:2013 (EN:2014)
Certification	CML 18ATEX1321X CML 18ATEX4313X CML 21UKEX1245X CML 21UKEX4246X IECEX CML 18.0179X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66, IP67 & IP68 (10m depth)

NEW PRODUCT TO CERTIFICATE

<b>Type</b>	<b>A2F100</b> (including prefix 'R', suffix 'HC' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444:2010, EN 62444:2013
Classification	Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15:2017 (EN:2019), IEC 60079-31:2013 (EN:2014)
Certification	CML 18ATEX1307 CML 18ATEX4311 CML 21UKEX1247 CML 21UKEX4248 IECEX CML 18.0172
Continuous operating temperature range	-60°C to +130°C
Ingress protection	IP66, IP67 & IP68 (30m depth)

Type	A2E (including prefix 'R', suffix '-FF', '-FC' & 'HT' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	CML 18ATEX1321X CML 18ATEX4313X CML 21UKEX1245X CML 21UKEX4246X IECEX CML 18.0179X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66, IP67 & IP68 (10m depth)

<b>Type</b>	<b>A2FRC</b>  (including prefix 'R', & suffix 'HT' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	CML 18ATEX1321X CML 18ATEX4313X CML 21UKEX1245X CML 21UKEX4246X IECEX CML 18.0179X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66

Type	E1F##  (including prefix 'R', suffix 'W', 'X', 'U', 'D', 'HT' & 'VAR' variants) D=Deluge Protection
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	cCSA - Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Ex d IIC; Ex e II; IP66; Ex nR II  CSAus - Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Class I, Zone I, AEx e II; AEx nR II  Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
Compliance Code	ANSI/UL 50, 514B, 2225, UL 60079-0, 1, 7, 15 CAN/CSA C22.2 No 0, 18.3, 25, 30, 94, 174, CSA C22.2 No 60079-0, 1, 7, 15 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 1310517 CML 18ATEX1324X CML 18ATEX4316X CML 21UKEX1252X CML 21UKEX4253X IECEX CML 18.0181X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)

Type	E2F##  (including prefix 'R', suffix 'W', 'X', 'U', 'D', 'HT' & 'VAR'  variants) D=Deluge Protection
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	cCSA - Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Ex d IIC; Ex e II; IP66; Ex nR II  CSAus - Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Class I, Zone I, AEx e II; AEx nR II  Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 514B, 2225, UL 60079-0, 1, 7, 15 CAN/CSA C22.2 No 0, 18.3, 25, 30, 94, 174, CSA C22.2 No 60079-0, 1, 7, 15 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 1310517 CML 18ATEX1324X CML 18ATEX4316X CML 21UKEX1252X CML 21UKEX4253X IECEX CML 18.0181X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66 (IP67 & IP68 (10m depth) with 'D' option)

Type	PX##  (including prefix 'R', suffix 'B', '2K', 'SS2K', 'W', 'X', 'RC', 'REX', 'PB' & 'VAR' variants)
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	<p>cCSA - Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III, Division 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da</p> <p>CSAus - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20 AEx ta IIIC Da</p> <p>UL - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class I, Zone 1, AEx d IIC</p> <p>Ex eb I Mb / Ex db I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da</p>
Compliance Code	ANSI/UL 50, 514B, 2225 UL 60079-0, 1, 7, 15 CAN/CSA C22.2 No 0, 18, 25, 30, 94, 174 CSA C22.2 60079-0, 1, 7, 15, 31 ANSI/ISA 60079-31 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 2288626 UL E161256, E201187, E256367 CML 18ATEX1325X CML 18ATEX4317X CML 21UKEX1214X



Type	PX##  (including prefix 'R', suffix 'B', '2K', 'SS2K', 'W', 'X', 'RC', 'REX', 'PB' & 'VAR' variants)
	CML 21UKEX4215X IECEX CML 18.0182X
Continuous operating temperature	-60°C to +85°C
Ingress protection	IP66, IP67 & IP68 (10m depth), Type 4X; Oil Resistant II

Type	SS2K  (including prefix 'R', and suffix 'HT', 'TA', 'PB', 'VAR' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	CML 18ATEX1322X CML 18ATEX4314X CML 21UKEX1256X CML 21UKEX4257X IECEX CML 18.0178X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66, IP67 & IP68 (10m depth)

Type	C##  (including suffix 'We', 'Xe', 'D', '2K', '2KX', HT', 'PB' & 'VAR' variants) D=Deluge Protection
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Classification	cCSAus - Ex e II, Ex nR II; Class I, Zone 1, AEx e II, AEx nR II; Enclosure Type 4X; Oil Resistant II  UL - Class I, Zone 1, AEx e II  Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 50E, 514B, 2225, 60079-0, 7, UL 60079-15 CAN/CSA C22.2 No 0, 18.3, 94.1, 94.2, E60079-7 CSA E60079-0 C22.2 60079-15 IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 2367109 UL E256367, E200163 CML 18ATEX1323X CML 21UKEX1251X IECEX CML 18.0180X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66 (IP67 & IP68 (10m depth) with 'D' option); Type 4X; Oil Resistant II

Type	TMC
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444:2013
Classification	cCSAus - Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Enclosure Types 3, 4, and 4X; Ex e II; Class I, Zone 1, AEx e II  UL - Class I, Zone 1 and 2, AEx e II  Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	ANSI/UL50, 514B, 60079-0, 7 UL 2225, 60079-0, 7 CAN/CSA E60079-7, CAN/CSA C22.2 No 0, 18.3, 25, 94, 174, 60079-0 IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 1129339 UL E256366 CML 18ATEX1337X CML 21UKEX1261X IECEX CML 18.0184X
Continuous operating temperature range	-60°C to +130°C
Ingress protection	IP66; Type 4X; Oil Resistant II

Type	TMCX
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444:2013
Classification	cCSAus - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Encl. Type 3, 4, and 4X; Ex d IIC, Ex e II; Class I, Zone 1, AEx d IIC, AEx e II  UL - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Encl. Type 3, 4, and 4X; Ex d IIC, Ex e II; Class I, Zone 1, AEx d IIC, AEx e II  Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	ANSI/UL50, 514B, 60079-0, 1, 7 UL 2225, 60079-0, 1, 7 CAN/CSA E60079-7, CAN/CSA C22.2 No 0, 18.3, 25, 94, 174, 60079-0 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 1129339 UL E256366, E161256 CML 18ATEX1337X CML 21UKEX1261X IECEX CML 18.0184X
Continuous operating temperature range	-60°C to +85°C
Ingress protection	IP66; Type 4X; Oil Resistant II

Type	TMC2
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444:2013
Classification	cCSA - Class I, Division 2, Groups A, B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Enclosure Type 4X; Ex e II; Class I, Zone 1, AEx e II; AEx ta IIIC  CSAus - Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Enclosure Type 4X; Ex e II; Class I, Zone 1, AEx e II; AEx ta IIIC  Ex eb IIC Gb, Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 514B, U886, 2225 CAN/CSA E60079-0, CAN/CSA C22.2 No 0, 18, 25, 30, 94, 174, 60079-0, 1, 7, E61241-1-1 IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 2194053 CML 18ATEX1335X CML 21UKEX1262X IECEX CML 18.0192X
Continuous operating temperature range	-60°C to +110°C
Ingress protection	IP66; Type 4X; Oil Resistant II

Type	TMC2X
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444:2013
Classification	cCSAus - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class III Division 1 and 2; Enclosure Type 4X; Ex d IIC, Ex e II; Class I Zone 1, AEx d IIC; AEx e II; AEx ta IIIC  UL - Class I, Division 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, G; Class III  Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	UL50, UL 514B, UL 2225, UL 60079-0,1,7 CAN/CSA-E60079-0, CSA Standard C22.2 No 18,174 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 2194053 UL E161256 CML 18ATEX1336X CML 21UKEX1263X IECEX CML 18.0193X
Continuous operating temperature range	-60°C to +85°C
Ingress protection	IP66; Type 4X; Oil Resistant II

Type	TC
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444:2013
Classification	cCSA - Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups E, F, and G; Class III, Division 2; Enclosure Type 4X; Ex e; Class I, Zone 1, AEx e  CSAus - Class II, Division 2, Groups E, F, and G; Class III, Division 2; Enclosure Type 4X; Ex e; Class I, Zone 1, AEx e  Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 514B, 60079-0,7 CAN/CSA C22.2 No 0, 18.3, 94, 174, E60079-0, 7 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 2220601 CML 18ATEX1334X CML 21UKEX1260X IECEX CML 18.0191X
Continuous operating temperature range	-60°C to +110°C
Ingress protection	IP66; Type 4X;

Type	TRITON T3CDS (including prefix 'R', suffix 'X', 'W', 'HT' 'PB' & 'VAR' variants)
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Classification	cCSA – Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups E, F, and G; Enclosure Types 3, 4, and 4X; Class III; Ex d IIC, Ex e II; Ex nR II  CSAus – Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Oil Resistant II; Class I, Zone 1, AEx e II; AEx nR II  UL – Class I, Zone 1, AEx e II  Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 514B, 2225 UL 60079-0, 1, 7, 15 CAN/CSA C22.2 No 0, 18, 25, 30, 94, 174 CSA C22.2 60079-0, 1, 7, 15 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15: 2017 (EN:2019), IEC 60079-31: 2013 (EN:2014)
Certification	cCSAus 1310517 UL E256367 CML 18ATEX1326X CML 18ATEX4318X CML 21UKEX1258X CML 21UKEX4259X IECEX CML 18.0183X
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Ingress protection	IP66, IP67 & IP68 (10m depth); Type 4X; Oil Resistant II



Type	TE1FU (including prefix 'R', suffix 'HT' & 'VAR' variants)
Design Specification	UL50, UL514B, UL2225, BS 6121: Part 1: 1989,  IEC 62444: 2010, EN 62444: 2013
Classification	cCSA – Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups E, F, and G; Enclosure Types 3, 4, and 4X; Class III; Ex d IIC, Ex e II; Ex nR II  CSAus – Class II, Division 2, Groups E, F, and G; Class III; Enclosure Type 4X; Oil Resistant II; Class I, Zone 1, AEx e II; AEx nR II  Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
Compliance Code	ANSI/UL 50, 514B, 2225 UL 60079-0, 1, 7, 15 CAN/CSA C22.2 No 0, 18, 25, 30, 94, 174 CSA C22.2 60079-0, 1, 7, 15 IEC 60079-0:2017 (EN:2018), IEC 60079-1:2014 (EN:2014), IEC 60079-7:2017 (EN:2015+A1:2018), IEC 60079-15:2017 (EN:2019), IEC 60079-31:2013 (EN:2014)
Certification	cCSAus 1310517 CML 18ATEX1326X CML 18ATEX4318X CML 21UKEX1258X CML 21UKEX4259X IECEX CML 18.0183X
Continuous operating temperature range	-60°C to +130°C (Standard seal) -20°C to +200°C (High temperature seal)
Ingress protection	IP66, IP67 & IP68 (10m depth); Type 4X; Oil Resistant II

NEW PRODUCT TO CERTIFICATE

Type	TSPe & TSPI
Design Specification	IEC 62444: 2010, EN 62444:2013
Classification	Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018) IEC 60079-31: 2013 (EN:2014)
Certification	CML 19ATEX3185X CML 21UKEX3264X IECEX CML 19.0062X
Continuous operating temperature range	-60°C to +95°C
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K

NEW PRODUCT TO CERTIFICATE

Type	TSMe
Design Specification	IEC 62444: 2010, EN 62444:2013
Classification	Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018) IEC 60079-31: 2013 (EN:2014)
Certification	CML 19ATEX3185X CML 21UKEX3264X IECEX CML 19.0062X
Continuous operating temperature range	-60°C to +105°C
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K

NEW PRODUCT TO CERTIFICATE

Type	TSXe
Design Specification	DIN 89345, IEC 62444: 2010, EN 62444:2013
Classification	Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018) IEC 60079-31: 2013 (EN:2014)
Certification	CML 19ATEX3185X CML 21UKEX3264X IECEX CML 19.0062X
Continuous operating temperature range	-60°C to +105°C
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K

NEW PRODUCT TO CERTIFICATE

Type	TSZe
Design Specification	IEC 62444: 2010, EN 62444:2013
Classification	Ex eb IIC Gb / Ex ta IIIC Da
Compliance Code	IEC 60079-0:2017 (EN:2018), IEC 60079-7:2017 (EN:2015+A1:2018) IEC 60079-31: 2013 (EN:2014)
Certification	CML 19ATEX3185X CML 21UKEX3264X IECEX CML 19.0062X
Continuous operating temperature range	-60°C to +105°C
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K