

**Product Type AR - (Metallic Adaptors and Reducers)**

Ex d : Ex e : Ex nR : Ex tb : IP66 : IP68  
Class I Div 1 : AEx d : AEx e : AEx tb

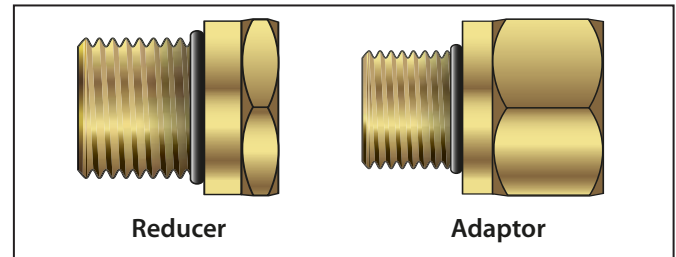
Part No's:

<b>A</b>	<b>R</b>	<b>1</b>	<b>B</b>	<b>F</b>
		<b>3</b>	<b>S</b>	
			<b>A</b>	



"AR" Series Certified Adaptors & Reducers provide a method of matching electrical thread forms on Ex equipment whilst maintaining Ex d, Ex e, Ex tb and Ex nR methods of explosion protection. Approved for use in mining (except Aluminium) and surface installations, they maintain IP66 & IP68 for IEC type applications and Class I Division 1 and NEMA 4X for CEC / NEC type applications. All external metric threads are fitted with a nitrile O-ring as standard.

<b>Compliance Standard:</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & 60529 C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E
<b>Certification:</b>	<p><b>ATEX</b> I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex tb IIIC Db II 3G Ex nR IIC Gc</p> <p><b>IECEX</b> Ex d I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p><b>CEC - Canada</b> Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p><b>NEC - USA</b> Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p><b>EAC</b> Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</p> <p><b>INMETRO - Brazil</b> Ex d I Mb / Ex d IIC Gb / Exe I Mb / Exe IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p><b>SAC - China</b> Ex d IIC / Ex e IIC</p> <p><b>UKRAINE</b> Exd IU / Exd IICU / Exe IU / Exe IIU</p> <p><b>CCoE - India</b> Ex d IIC Gb / Ex e IIC Gc</p> <p><b>ABS</b> Specified ABS Rules</p> <p><b>LLOYD'S</b> Enclosure Systems (Part 1B)</p> <p><b>RMRS</b> Part XI of Rules for sea-going ships (ed.2014)</p>



<b>Example Part Numbering</b> (Always Quote Male Thread First)	<b>AR1BF/NP/M20/M25</b>
<b>AR</b>	Thread converting Adaptor/Reducer
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>F</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Entry Thread
<b>M25</b>	Female Entry Thread
<b>Optional Accessories</b>	IP Washers - (N) Nylon (ACNSW) / (V) Fibre (ACFSW) / (H) PTFE (ACPSW) (T) Earth Tag - Brass (ACBET) / St-Steel (ACSET) / Aluminium (ACAET) (L) Locknut - Brass (ACBLN) / St-Steel (ACSLN) / Aluminium (ACALN) (S) Serrated Washer - Stainless Steel (ACSSW)

<b>Certificate No.</b>	<p><b>ATEX</b> SIRA 09ATEX1322X &amp; SIRA 09ATEX4323X</p> <p><b>IECEX</b> IECEX SIR 09.0131X</p> <p><b>CEC - Canada</b> CSA 2310046</p> <p><b>NEC - USA</b> CSA 2310046</p> <p><b>EAC</b> RU C-GB.F506.B.00098</p> <p><b>INMETRO - Brazil</b> NCC 13.2189 X</p> <p><b>SAC - China</b> NEPSI GYJ16.1404X</p> <p><b>UKRAINE</b> UA.TR.047.C.0408-13 &amp; 2937</p> <p><b>CCoE - India</b> PESO P365300/9 &amp; P365300/12</p> <p><b>ABS</b> 14-LD1183401-PDA</p> <p><b>LLOYD'S</b> 10/00056(E1)</p> <p><b>RMRS</b> 14.02755.315</p>
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<b>IP Rating:</b>	IP66 & IP68 (100 metres for 7 days) & NEMA 4X
<b>Impact Resistance:</b>	20Nm (Aluminium 7Nm)
<b>Operating Temperature:</b>	O-ring - None -100°C to +400°C O-ring - Nitrile -30°C to +100°C O-ring - Silicone -60°C to +200°C
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Electroless Nickel

Male and Female Thread References and Size information can be found on page TR-1 of our product catalogue.

Adaptor and Reducer size information is available on pages TR-2 & TR-3 of our product catalogue.

Male and female threads are manufactured in accordance with:-

- ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423
- NPT and NPS threads are in accordance to ANSI B1.20.1
- PG threads to DIN40430
- ET threads to Imperial Conduit BS31
- ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)
- ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

- Notes:**
- Assembly instructions must be read prior to installation and adhered to in full.
  - For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
  - For Ex nR applications parallel entry threads must be installed with a suitable entry thread seal.
  - ATEX / IECEX versions are supplied as standard.
  - Additional approvals must be requested at time of order.
  - Where applicable, the standard O-ring material is nitrile. Other options are available upon request.
  - Aluminium versions are not suitable for Group I Mining applications.

**AR Series Metallic Adaptor & Reducers - Size Reference**

MALE SIZE	METRIC FEMALE SIZES													
	M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	M110	M120
Metric														
M16	A01	A01												
M20	R02	A02	A03	A05										
M25	R05	R05	A04	A05	A06									
M32	R07	R07	R07	A05	A06	A08								
M40	R09	R09	R09	R09	A07	A08	A11							
M50	R12	R12	R12	R12	R12	A09	A11	A12						
M63	R14	R14	R14	R14	R14	R14	A11	A12	A13	A14				
M75	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M80	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M85	R17	R17	R17	R17	R17	R17	R17	R17	A13	A14	A14	A15		
M90	R17	R17	R17	R17	R17	R17	R17	R17	A14	A14	A15	A16		
M100	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18	A15	A16	A17	
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	A16	A17	
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	A17	
NPT														
½"	R01*	A01*	A03	A05										
¾"	R03*	R03*	A03*	A05	A06									
1"	R06*	R06*	R06*	A05*	A06	A08								
1¼"	R08*	R08*	R08*	R08*	A06*	A08	A11							
1½"	R10*	R10*	R10*	R10*	R10*	A08*	A11	A12						
2"	R13	R13	R13	R13	R13	R13	A11	A12	A13	A14				
2½"	R15	R15	R15	R15	R15	R15	R15	A12	A13	A14	A14			
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	A13*	A14	A14	A15	A16	A17
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A15	A16	A17
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A16	A17
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*
PG														
PG9	A01	A01												
PG11	A01	A02	A03											
PG13.5	R02	A02	A03	A05										
PG16	R04	A03	A03	A05										
PG21	R07	R07	A05	A05	A06									
PG29	R08	R08	R08	R08	A06	A08								
PG36	R11	R11	R11	R11	R11	A08	A11							
PG42	R13	R13	R13	R13	R13	A10	A11	A12						
PG48	R14	R14	R14	R14	R14	A11	A12							

	NPT FEMALE SIZES										
	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
A18											
A19	A20										
R05	A21	A22	A23								
R07	R07	A22	A23	A24							
R09	R09	R09	A23	A24	A26						
R12	R12	R12	R12	A24	A26	A27					
R14	R14	R14	R14	R14	A26	A27					
R16	R16	R16	R16	R16	R16	A28	A29	A30			
R16	R16	R16	R16	R16	R16	R16	A29	A30			
R17	R17	R17	R17	R17	R17	R17	A29	A30			
R17	R17	R17	R17	R17	R17	R17	A29	A30	A31		
R18	R18	R18	R18	R18	R18	R18	R18	A30	A31		
R19	R19	R19	R19	R19	R19	R19	R19	R19	A31	A33	
R20	R20	R20	R20	R20	R20	R20	R20	R20	A32	A33	
A18*	A20	A22									
R03*	A20*	A22	A23								
R06*	R06*	A22*	A23	A24							
R08*	R08*	R08*	A23*	A24	A26						
R10*	R10*	R10*	R10*	A24*	A26	A27					
R13	R13	R13	R13	R13	A26	A27	A29				
R15	R15	R15	R15	R15	R15	A27	A29	A30			
R16*	R16*	R16*	R16*	R16*	R16*	R16*	A29	A30	A31		
R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A30	A31		
R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A31	A33	
R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	A33	
A18											
A19	A20										
A19	A20	A22									
A20	A20	A22									
R07	A22	A22	A23								
R08	R08	A23	A23	A24							
R11	R11	R11	A24	A24	A26						
R13	R13	R13	R13	R13	A26	A27					
R14	R14	R14	R14	R14	A26	A27					

<b>Adaptor</b>
<b>Reducer</b>

ADAPTORS AND REDUCERS WITH NPT MALE THREADS ARE DESIGNED TO BE USED IN THREADED ENTRIES. IF REQUIRED WITH A SEALING WASHER FOR USE IN CLEARANCE HOLES WITH A LOCKNUT THESE ITEMS CAN BE MANUFACTURED FROM A LARGER HEXAGON SIZE TO PROVIDE A SUITABLE SEALING FACE.

**AR Series Metallic Adaptor & Reducers - Size Reference & Dimensions**

MALE SIZE	PG FEMALE SIZES									
	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48
Metric										
M16	R01	A01	A01	A01						
M20	R02	R02	A02	A02	A02	A04				
M25	R05	R05	R05	R05	A04	A04	A06			
M32	R07	R07	R07	R07	R07	A05	A06	A08		
M40	R09	R09	R09	R09	R09	R09	A07	A08	A10	
M50	R12	R12	R12	R12	R12	R12	R12	A09	A10	A11
M63	R14	R14	R14	R14	R14	R14	R14	R14	R14	A11
M75	R16	R16	R16	R16	R16	R16	R16	R16	R16	R16
M80	R16	R16	R16	R16	R16	R16	R16	R16	R16	R16
M85	R17	R17	R17	R17	R17	R17	R17	R17	R17	R17
M90	R17	R17	R17	R17	R17	R17	R17	R17	R17	R17
M100	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20
NPT										
½"	R01*	R01*	A01*	A01*	A02	A04				
¾"	R03*	R03*	R03*	R03*	A03*	A04	A06			
1"	R06*	R06*	R06*	R06*	R06*	A05*	A06	A08		
1¼"	R08*	R08*	R08*	R08*	R08*	R08*	A06*	A08	A10	
1½"	R10*	R10*	R10*	R10*	R10*	R10*	R10*	A08*	A10	A11
2"	R13	R13	R13	R13	R13	R13	R13	R13	R13	A11
2½"	R15	R15	R15	R15	R15	R15	R15	R15	R15	R15
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*
PG										
PG9	A01	A01	A01	A01						
PG11	A01	A01	A01	A01	A02	A04				
PG13.5	R02	R02	A02	A02	A02	A04				
PG16	R04	R04	R04	A03	A03	A04				
PG21	R07	R07	R07	R07	R07	A05	A06			
PG29	R08	R08	R08	R08	R08	R08	A07	A08		
PG36	R11	R11	R11	R11	R11	R11	R11	A08	A10	A11
PG42	R13	R13	R13	R13	R13	R13	R13	R13	A10	A11
PG48	R14	R14	R14	R14	R14	R14	R14	R14	R14	A11

**ADAPTORS**

Metric x Metric / Metric x PG / PG x Metric / PG x PG

AR Adaptor Details	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
A/F Dim (Min)	23.4	27.0	30.0	31.8	37.6	44.5	47.2	55.9	57.2	61.2	69.9	90.2	104.8	104.8	114.3	120.7	140.0
A/C Dim (Min)	25.7	29.7	33.0	35.0	41.4	48.9	51.9	61.5	62.9	67.3	76.8	99.2	99.2	115.3	125.7	132.8	154.0
Nominal Protrusion Length *	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5	29.0	29.0	29.0	29.0	29.0

Metric x NPT / NPT x NPT / PG x NPT

AR Adaptor Details	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33
A/F Dim (Min)	23.4	27.0	30.0	31.8	37.6	47.2	55.9	57.2	69.9	80.0	90.2	104.8	114.3	127.0	133.0	160.0
A/C Dim (Min)	25.7	29.7	33.0	35.0	41.4	51.9	61.5	62.9	76.9	88.0	99.2	115.3	125.7	139.7	146.3	176.0
Nominal Protrusion Length **	26.0	26.0	26.0	26.0	31.0	31.0	32.0	32.0	32.0	44.4	44.4	46.0	47.3	48.5	48.5	53.7

**REDUCERS**

Metric / NPT / PG

AR Reducer Details	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21
A/F Dim (Min)	23.4	27.0	27.9	30.0	31.8	34.9	37.6	44.5	47.2	52.1	55.9	57.2	61.2	69.9	80.0	90.2	104.8	114.3	120.7	133.4	146.0
A/C Dim (Min)	25.7	29.7	30.7	33.0	35.0	38.4	41.4	48.9	51.9	57.3	61.5	62.9	67.3	76.8	88.0	99.2	115.3	125.7	132.8	146.7	160.7
Nominal Protrusion Length **	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.0	12.0

\* Stated nominal protrusion lengths do not take into account if any form of IP seal (o-ring / washer) is used in conjunction with the entry thread

\*\* Due to the nature of tapered threads the nominal protrusion length may be further away from the enclosure wall than the stated figure

**Technical Information**
**Thread Reference Tables**

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
ISO Metric IEC 60423	M16	M16	1.50	16.93	15.97	16.0	16.7
	M20	M20	1.50	16.93	19.97	16.0	20.7
	M25	M25	1.50	16.93	24.97	16.0	25.7
	M32	M32	1.50	16.93	31.97	16.0	32.7
	M40	M40	1.50	16.93	39.97	16.0	40.7
	M50	M50	1.50	16.93	49.97	16.0	50.7
	M63	M63	1.50	16.93	62.97	19.0	63.7
	M75	M75	1.50	16.93	74.97	19.0	75.7
	M80	M80	2.00	12.70	79.97	25.0	80.7
	M85	M85	2.00	12.70	84.97	25.0	85.7
	M90	M90	2.00	12.70	89.97	25.0	90.7
M100	M100	2.00	12.70	99.97	25.0	100.7	
NPT ANSI B1.20.1	1/2"	050NPT	1.81	14.0	20.90	19.9	21.60
	3/4"	075NPT	1.81	14.0	26.26	20.2	26.96
	1"	100NPT	2.20	11.5	32.84	25.0	33.54
	1-1/4"	125NPT	2.20	11.5	41.61	25.6	42.31
	1-1/2"	150NPT	2.20	11.5	47.68	26.0	48.37
	2"	200NPT	2.20	11.5	59.72	26.9	60.42
	2-1/2"	250NPT	3.18	8.0	72.16	39.9	72.86
	3"	300NPT	3.18	8.0	88.06	41.5	88.76
	3-1/2"	350NPT	3.18	8.0	100.78	42.8	101.48
	4"	400NPT	3.18	8.0	113.43	44.0	114.13
	NPS ANSI B1.20.1	PG7	PG7	1.27	20.0	12.50	16.0
PG9		PG9	1.41	18.0	15.20	16.0	15.90
PG11		PG11	1.41	18.0	18.60	16.0	19.30
PG13.5		PG13.5	1.41	18.0	20.40	16.0	21.10
PG16		PG16	1.41	18.0	22.50	16.0	23.20
PG21		PG21	1.59	16.0	28.30	16.0	29.00
PG29		PG29	1.59	16.0	37.00	16.0	37.70
PG36		PG36	1.59	16.0	47.00	16.0	47.70
PG42		PG42	1.59	16.0	54.00	16.0	54.70
PG48		PG48	1.59	16.0	59.30	16.0	60.00
ISO Pipe Parallel ISO R/7 BS2779 (BSPP, G, R & PF)		1/2"	050BSP	1.81	14.0	20.96	19.9
	3/4"	075BSP	1.81	14.0	26.44	20.2	27.14
	1"	100BSP	2.31	11.0	33.25	25.0	33.95
	1-1/4"	125BSP	2.31	11.0	41.91	25.6	42.61
	1-1/2"	150BSP	2.31	11.0	47.80	26.0	48.50
	2"	200BSP	2.31	11.0	59.61	26.9	60.31
	2-1/2"	250BSP	2.31	11.0	75.18	39.9	75.88
	3"	300BSP	2.31	11.0	87.88	41.5	88.58
	3-1/2"	350BSP	2.31	11.0	100.33	42.8	101.03
	4"	400BSP	2.31	11.0	113.03	44.0	113.73
	ISO Pipe Taper ISO R/7 BS21 (BSPT & GK)	1/2"	050BST	1.81	14.0	20.96	19.9
3/4"		075BST	1.81	14.0	26.44	20.2	27.14
1"		100BST	2.31	11.0	33.25	25.0	33.95
1-1/4"		125BST	2.31	11.0	41.91	25.6	42.61
1-1/2"		150BST	2.31	11.0	47.80	26.0	48.50
2"		200BST	2.31	11.0	59.61	26.9	60.31
2-1/2"		250BST	2.31	11.0	75.18	39.9	75.88
3"		300BST	2.31	11.0	87.88	41.5	88.58
3-1/2"		350BST	2.31	11.0	100.33	42.8	101.03
4"		400BST	2.31	11.0	113.03	44.0	113.73

Glands are available with Metric or NPT threads as standard. All other thread forms are manufactured to order

**SPMH & SPHH Dimensional Data**

SPHH Information Table							
ISO METRIC Thread	A/F	Overall Length	Weight	NPT Thread	A/F	Overall Length	Weight
M12	19.0	20.5	0.024	1/4"	20.0	19.1	0.029
M16	23.4	20.5	0.032	3/8"	24.0	19.3	0.045
M20	27.0	21.0	0.049	1/2"	27.9	24.4	0.076
M25	31.8	21.0	0.078	3/4"	33.0	24.7	0.118
M32	37.6	21.0	0.134	1"	41.2	30.0	0.225
M40	47.2	21.5	0.218	1-1/4"	50.0	31.1	0.379
M50	57.2	21.5	0.333	1-1/2"	57.2	31.5	0.499
M63	69.9	22.0	0.544	2"	69.9	32.9	0.814
M75	90.0	22.0	0.777	2-1/2"	82.5	46.4	1.671
M80	90.0	28.0	1.050	3"	106.4	49.5	2.652
M85	104.8	28.0	1.225	3-1/2"	114.3	50.8	3.566
M90	104.8	28.0	1.326	4"	127.0	52.0	4.602
M100	114.3	28.0	1.680				

All dimensions in mm / weight in kgs

SPMH Information Table							
ISO METRIC Thread	Hex Socket A/F	Overall Length	Weight	NPT Thread	Hex Socket A/F	Overall Length	Weight
M12	6.0	21.5	0.020	1/4"	6.0	20.6	0.027
M16	8.0	21.5	0.032	3/8"	8.0	20.8	0.041
M20	10.0	21.5	0.049	1/2"	10.0	25.4	0.062
M25	12.0	21.5	0.078	3/4"	12.0	25.7	0.125
M32	12.0	21.5	0.134	1"	12.0	30.5	0.202
M40	14.0	21.5	0.218	1-1/4"	14.0	31.1	0.337
M50	17.0	21.5	0.333	1-1/2"	17.0	31.5	0.451
M63	17.0	21.5	0.544	2"	17.0	32.4	0.743
M75	19.0	21.5	0.777	2-1/2"	19.0	45.4	1.499
M80	22.0	25.5	1.050	3"	22.0	47.0	2.310
M85	22.0	25.5	1.225	3-1/2"	22.0	48.3	3.133
M90	22.0	25.5	1.326	4"	22.0	49.5	4.086
M100	22.0	25.5	1.680				

All dimensions in mm / weight in kgs  
 Head Diameter = Minimum 5.5mm larger than the major thread diameter

**HEALTH & SAFETY**

When used and installed as recommended within the assembly instructions provided, Peppers Cable Glands products will not cause any danger or hazard to the health or safety of persons, animals or property. The products should be installed by suitably trained / skilled personnel and in full accordance with the relevant legislative regulations (including the UK's wiring regulations) and the accepted rules for the industry concerned.

**WARNING**

Peppers' cable glands should not be used within any application other than those specified for each product, unless Peppers Cable Glands issue a statement in writing that the product is suitable for the specified application. For further information on each product, we refer you to the specific assembly instructions and General Arrangement drawings, which are available on request. Using the links on our web site, catalogue pages and instructions may be downloaded. Peppers Cable Glands Limited take no responsibility for any damage, injury or other consequential loss caused where the glands are not installed or used according to our instructions.

**HAZARDOUS AREA INSTALLATION**

When selecting equipment for use in hazardous areas the appropriate national or international standards or codes of practice must be considered.

**GENERAL SUITABILITY FOR THE INSTALLATION ENVIRONMENT**

Peppers' cable glands are designed for normal industrial environments with regard to temperature, humidity and vibration. Construction materials include steel, brass, aluminium alloys, neoprene, nitrile and silicone rubbers. To minimise galvanic corrosion, the metallic gland components are made from similar materials. Material compatibility under chemical corrosion or attack by aggressive substances must be considered before installation.

**SPARE PARTS**

The nature of the product is such that spare parts are not applicable. If part of a gland needs to be replaced for any reason, the user should refer back to the manufacturer and seek advice. No special tools are required for the commissioning and servicing of our products.

**DIMENSIONAL DATA**

The dimensions shown within this catalogue may vary due to material availability.

**CE CONFORMITY**

Copies of Peppers CE declarations regarding LVD, EMC and ATEX directives are available upon request. BS EN 50262 classification with regard to mechanical and electrical properties of cable glands is available upon request.

**RoHS / WEEE DIRECTIVES**

Peppers Cable Glands can confirm that its full product range either complies or is outside the scope of these directives. Further documentation is available upon request.

**DISCLAIMER**

Whilst every care has been taken in the compilation of this catalogue, and every attempt made to present up-to-date and accurate information, we cannot guarantee that inaccuracies will not occur. Peppers Cable Glands Ltd will not be held responsible for any loss, damage or inconvenience caused as a result of any inaccuracy or errors. If you discover any information in our pages which you believe to be inaccurate or inappropriate, please notify us by e-mailing [sales@peppers.co.uk](mailto:sales@peppers.co.uk).

**TERMS & CONDITIONS**

Full terms and conditions of sale are available upon request.

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