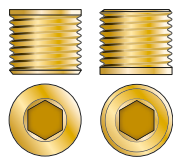


## Peppers Cable Glands Limited

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### SPA / SPB Series Metallic Plugs



"SPA" & "SPB" Series Certified Metallic Stopping Plugs provide a method of sealing unused threaded entries in Ex equipment. They maintain Ex d and Ex tb methods of explosion protection and IP66 for IEC type applications. They also maintain Class I, Division 1 and NEMA 4X for CEC type applications. SPA stopping plugs are installed from the outside of an enclosure and can be tightened with an appropriate allen key. SPB stopping plugs are installed from the outside of an enclosure but the allen key recess for tightening is located inside. Due to this design they are sometimes referred to as tamperproof stopping plugs.

<b>Compliance Standard:</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & 60529
<b>Certification:</b>	ATEX I M2 II 2GD Ex d I&IIc Mb Gb / Ex e I&IIc Mb Gb / Ex tb IIIC Db IECEX Ex d I&IIc / Ex e I&IIc / Ex tb IIIC CSA Class I, Division 1 & 2; Groups A, B, C & D Class II, Groups E, F & G GOST-R Ex d I&IIcU / Ex e I&IIU
<b>Marine Approvals:</b>	LLOYDS Enclosure Systems - Part 1B RMRS Part XI of Rules for sea-going ships (ed.2008)
<b>Certificate No.</b>	ATEX SIRA 09ATEX1320X IECEX SIR 09.0131X CSA 2310046 GOST-R POCC GB.F506.B00853 LLOYDS 10/00056 RMRS 09.00784.011
<b>IP Rating:</b>	IP66
<b>Impact Resistance:</b>	20Nm (Aluminium 7Nm)
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Nickel - Zinc
<b>Operating Temperature:</b>	-100°C to +400°C

#### Example Part Numbering

(See below for details)

SPA0BD/NP/M20

<b>SPA</b>	Stopping Plug Flush Fitting [SPA] / Tamperproof [SPB]
<b>0</b>	No IP O-ring (0)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>D</b>	Ex d certification
<b>NP</b>	Nickel Plated (NP) - Zinc Plated (ZP)
<b>M20</b>	Male Thread

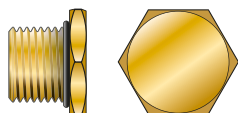
ISO Thread Dia	Hex Socket A/F	Overall Length	Weight	NPT Thread Dia	Hex Socket A/F	Overall Length
M16	8.0	17.0	0.019	1/2"	10.0	14.5
M20	10.0	17.0	0.032	3/4"	12.0	14.8
M25	12.0	17.0	0.052	1"	12.0	18.5
M32	12.0	17.0	0.095	1-1/4"	14.0	19.1
M40	14.0	17.0	0.153	1-1/2"	17.0	19.5
M50	17.0	17.0	0.244	2"	17.0	20.5
M63	17.0	17.0	0.406	2-1/2"	19.0	30.5
M75	19.0	17.0	0.583	3"	22.0	32.1
M80	22.0	22.0		3-1/2"	22.0	33.4
M85	22.0	22.0		4"	22.0	34.7
M90	22.0	22.0				
M100	22.0	22.0				

Type A = External Fixing  
Type B = Internal Fixing

All dimensions in mm / weight in kgs (for metric version)

- Notes:**
- \* SPA & SPB plugs have been independently IP tested in representative threads of enclosures. In practice the interface between the stopping plug and associated equipment cannot be defined, therefore it is the user's responsibility to ensure that an appropriate IP seal is maintained.
  - \* 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
  - \* ATEX / IECEX versions are supplied as standard. If additional approvals are required they must be requested at time of order.

### SPHH Series Metallic Plugs (Hex Head)



"SPHH" Series Certified Metallic Stopping (Blanking) Plugs provide a method of sealing unused entries in Ex equipment. They maintain Ex d, Ex e, Ex tb and Ex nR methods of protection and IP66, IP68 for IEC type applications. They also maintain Class I, Division 2 and NEMA 4X for CEC type applications.

<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
<b>Certification:</b>	ATEX I M2 II 2GD Ex d I&IIc Mb Gb / Ex e I&IIc Mb Gb / Ex tb IIIC Db II 3GD Ex nR IIC Gc IECEX Ex d I&IIc / Ex e I&IIc / Ex tb IIIC / Ex nR IIC CSA Class I, Division 1 Groups A, B, C & D Class II, Groups E, F & G; Class III GOST-R Ex d I&IIcU / Ex e I&IIU / Ex nRIIU
<b>Marine Approvals:</b>	LLOYDS Enclosure Systems - Part 1B RMRS Part XI of Rules for sea-going ships (ed.2008)
<b>Certificate No.</b>	ATEX SIRA 09ATEX1320X & SIRA 09ATEX4323X IECEX SIR 09.0131X CSA 2310046 GOST-R POCC GB.F506.B00853 LLOYDS 10/00056 RMRS 09.00784.011
<b>IP Rating:</b>	IP66 & IP68 (100 metres for 7 days) & NEMA 4X 6P
<b>Impact Resistance:</b>	20Nm (Aluminium 7Nm)
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Nickel - Zinc
<b>Operating Temperature:</b>	O-ring - Nitrile -30°C to +100°C O-ring - Silicone -60°C to +200°C

#### Example Part Numbering

(See below for details)

SPHH1BF/NP/M20

<b>SPHH</b>	Peppers Stopping Plug with Hexagon Head
<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
<b>NP</b>	Nickel Plated (NP) - Zinc Plated (ZP)
<b>M20</b>	Male Thread

<b>Optional Accessories</b>	[N/V] IP Washers	Nylon [N] (ACNSW) / Fibre [V] (ACFSW)
	[T] Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	[L] Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	[S] Serrated Washer	Stainless Steel (ACSSW)

ISO Thread	Min A/F	Overall Length	Weight	NPT Thread	Min A/F	Overall
M16	23.4	20.5	0.040	1/2"	27.9	24.4
M20	27.0	21.0	0.063	3/4"	33.0	24.7
M25	31.8	21.0	0.096	1"	41.2	30.0
M32	37.6	21.0	0.150	1-1/4"	50.0	31.1
M40	47.2	21.5	0.246	1-1/2"	57.2	31.5
M50	57.2	21.5	0.377	2"	69.9	32.9
M63	69.9	22.0	0.610	2-1/2"	90.0	46.4
M75	90.0	22.0	0.890	3"	104.8	49.5
M80	90.0	28.0	1.210	3-1/2"	114.3	50.8
M85	104.8	28.0	1.410	4"	127.0	52.0
M90	104.8	28.0	1.530			
M100	114.3	28.0	1.930			

All dimensions in mm / weight in kgs (for metric version)

- Notes:**
- \* Assembly instructions must be read prior to installation and adhered to in full.
  - \* When used in an Ex nR application SPHH plugs must be fitted with an appropriate seal.
  - \* To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
  - \* For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1
  - \* IECEX / ATEX versions are supplied as standard. If additional approvals are required they 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 application