

Product Type SPMH & SPHH - (Metallic Dome Head & Hex Head Stopping Plug)

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

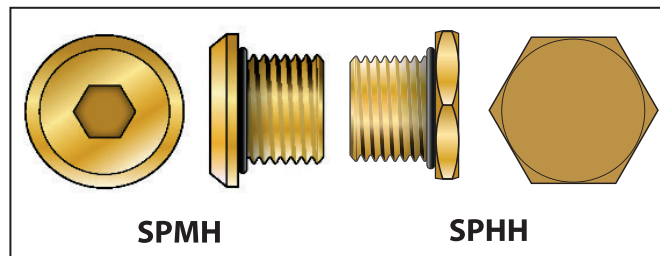
Part No's:	SP	MH	0	B	F
		HH	1	S	
			3	A	



"SPMH & 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 are Class I Division 1, Class II Division 1, Class II and Class 1 Zone 1 approved for for NEC and CEC type applications whilst also maintaining Type 4X rating.

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

Certificate No.	ATEX	SIRA 09ATEX1320X & SIRA 09ATEX4323X
	IECEx	IECEx SIR 09.0131X
	CEC - Canada	CSA 2310046
	NEC - USA	CSA 2310046
	EAC	RU C-GB.F606.B.00098
	INMETRO - Brazil	NCC 13.2189 X
	SAC - China	GYJ16.1406X
	UKRAINE	UA.TR.047.C.0408-13 & 2937
	CCoE - India	PESO P365300/7 & P365300/12
	ABS	14-LD1183401-PDA
	LLOYD'S	10/00056(E1)
	RMRS	14.02755.315


Example Part Numbering

SPMH1BF/NP/M20

SP	Stopping (Blanking) Plug
MH	Dome (Mushroom) Head (MH) / Hex Head (HH)
1	No IP O-ring (0) - Nitrile (1) - Silicone (3)
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
F	Ex d & Ex e certification including Marine Approvals
NP	Nickel Plated
M20	Male Thread
Optional Accessories	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)

IP Rating: IP66 & IP68 (100 metres for 7 days) & NEMA 4X

Impact Resistance: 20Nm (Aluminium 7Nm)

Operating Temp: O-ring - None -100°C to +400°C
 O-ring - Nitrile -30°C to +100°C
 O-ring - Silicone -60°C to +200°C

Materials: Brass, Stainless Steel or Aluminium

Plating: Electroless Nickel

Male 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.