



SPMH Series Metallic Plugs (Dome Head)

“SPMH” 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 1 and NEMA 4X for CEC type applications.



Example Part Numbering
 (See below for details)

SPMH1BF/NP/M20

SPMH	Stopping Plug with Mushroom/Dome head	
1	No IP O-ring (0) - Nitrile (1) - Silicone (3)	
B	Brass (B) - Stainless Steel (S) - Aluminium (A)	
F	Ex d & Ex e certification	
NP	Nickel Plated (NP) - Zinc Plated (ZP)	
M20	Male Thread	
Optional Accessories	[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)

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 & 60529

Certification: 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

Marine Approvals: LLOYDS Enclosure Systems - Part 1B
 RMRS Part XI of Rules for sea-going ships (ed.2008)

Certificate No. ATEX SIRA 09ATEX1320X & SIRA 09ATEX4323X
 IECEx SIR 09.0131X
 CSA 2310046
 GOST-R POCC GB.ГБ06.В00853
 LLOYDS 10/00056
 RMRS 09.00784.011

IP Rating: IP66 & IP68 (100 metres for 7 days) & NEMA 4X 6P

Impact Resistance: 20Nm (Aluminium 7Nm)

Materials: Brass, Stainless Steel or Aluminium

Plating: Nickel - Zinc

Operating Temperature: O-ring - None -100°C TO +400°C

O-ring - Silicone -60°C TO +200°C

ISO Thread	Hex Socket A/F	Overall Length	Weight	NPT Thread	Hex Socket A/F	Overall Length
M16	8.0	21.5	0.032	1/2"	10.0	25.4
M20	10.0	21.5	0.049	3/4"	12.0	25.7
M25	12.0	21.5	0.078	1"	12.0	30.5
M32	12.0	21.5	0.134	1-1/4"	14.0	31.1
M40	14.0	21.5	0.218	1-1/2"	17.0	31.5
M50	17.0	21.5	0.333	2"	17.0	32.4
M63	17.0	21.5	0.544	2-1/2"	19.0	45.4
M75	19.0	21.5	0.777	3"	22.0	47.0
M80	22.0	25.5	1.050	3-1/2"	22.0	48.3
M85	22.0	25.5	1.225	4"	22.0	49.5
M90	22.0	25.5	1.326	Head Diameter = Minimum 5.5mm larger than the major thread diameter		
M100	22.0	25.5	1.680			
All dimensions in mm / weight in kgs (for metric version)						

- Notes:**
- * When used in an Ex nR application SPMH plugs must be fitted with an appropriate seal.
 - * Assembly instructions must be read prior to installation and adhered to in full.
 - * 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
 - * ATEX / IECEx versions are supplied as standard. If additional approvals are required they must be requested at time of order.
 - * The standard O-ring material is nitrile. Other options are available upon request.
 - * Aluminium versions are not suitable for Group I Mining application.