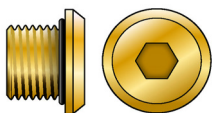




SPMH Series Metallic Plugs (Dome Head Plug)



"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.

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
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.F506.B00853 LLOYDS 10/00056 RMRS 09.00784.011
IP Rating:	IP66 & IP68 (100 metres for 7 days) & NEMA 4X 6P
Materials:	Brass, Stainless Steel or Aluminium
Plating:	Nickel - Zinc
Operating Temperature:	O-ring - None -100°C to +400°C O-ring - Nitrile -30°C to +100°C O-ring - Silicone -60°C to +200°C

Example Part Numbering SPMH1BF/NP/M20
 (See below for details)

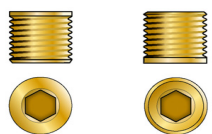
SPMH	Series type SPMH
1	No IP O-ring (0) - Nitrile (1) - Silicone (3)
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
F	Ex d & Ex e certification including marine approvals
NP	Nickel Plated (NP) - Zinc Plated (ZP)
M20	Male Thread

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)

ISO	Hex Socket	Overall	NPT Thread	Hex Socket	Overall	Weight
M16	8.0	21.5	1/2"	10.0	25.4	0.035
M20	10.0	21.5	3/4"	12.0	25.7	0.050
M25	12.0	21.5	1"	12.0	30.5	0.075
M32	12.0	21.5	1-1/4"	14.0	31.1	0.140
M40	14.0	21.5	1-1/2"	17.0	31.5	0.225
M50	17.0	21.5	2"	17.0	32.4	0.355
M63	17.0	21.5	2-1/2"	19.0	45.4	0.555
M75	19.0	21.5	3"	22.0	47.0	0.835
M80	22.0	25.5	3-1/2"	22.0	48.3	1.200
M85	22.0	25.5	4"	22.0	49.5	1.200
M90	22.0	25.5	Head Diameter = Minimum		1.450	
M100	22.0	25.5	5.5mm larger than the major		1.750	

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

SPA / SPB Series Metallic Plugs



SPA* & SPB* Series Certified Metallic Stopping Plugs provide a method of sealing unused entries in Ex equipment. They maintain Exd, Ex e 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.

Compliance Standard:	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
Certification:	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
Marine Approvals:	LLOYDS Enclosure Systems - Part 1B RMRS Part XI of Rules for sea-going ships (ed.2008)
Certificate No.:	ATEX SIRA 09ATEX1320X IECEX SIR 09.0131X CSA 2310046 GOST-R POCC GB.F506.B00853 LLOYDS 10/00056 RMRS 09.00784.011
IP Rating:	IP66
Materials:	Brass, Stainless Steel or Aluminium
Plating:	Nickel - Zinc
Operating Temperature:	-100°C to +400°C

Example Part Numbering SPA0BD/NP/M20
 (See below for details)

SPA	Type A (SPA) - Type B (SPB)
0	No IP O-ring (0)
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
D	Ex d certification including marine approvals
NP	Nickel Plated (NP) - Zinc Plated (ZP)
M20	Male Thread

ISO	Hex Socket	Overall	NPT Thread	Hex Socket	Overall	Weight
M16	8.0	17.0	1/2"	10.0	14.5	0.025
M20	10.0	17.0	3/4"	12.0	14.8	0.035
M25	12.0	17.0	1"	12.0	18.5	0.060
M32	12.0	17.0	1-1/4"	14.0	19.1	0.105
M40	14.0	17.0	1-1/2"	17.0	19.5	0.170
M50	17.0	17.0	2"	17.0	20.5	0.265
M63	17.0	17.0	2-1/2"	19.0	30.5	0.450
M75	19.0	17.0	3"	22.0	32.1	0.600
M80	22.0	22.0	3-1/2"	22.0	33.4	0.750
M85	22.0	22.0	4"	22.0	34.7	0.880
M90	22.0	22.0	Type A = External Fixing		0.940	
M100	22.0	22.0	Type B = Internal Fixing (Tamperp		1.030	

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 degree of ingress protection is maintained.
 - * 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 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