



### PART NUMBERS:

SP	A	O	B	D
			S	
			A	



### PRODUCT DESCRIPTION

"SP" Series Certified Metallic Stopping (Blanking) Plugs provide a method of sealing unused entries in Ex equipment. They maintain Ex db, Ex eb and Ex ta methods of protection and IP66 for IEC type applications. They are Class I Division 1, Class II Division 1, Class II and Class 1 Zone 1 approved for NEC and CEC type applications whilst also maintain Type 4X rating.

### COMPLIANCE STANDARDS:

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

EXAMPLE PART NUMBERING:  
SPA0BD/NP/M20

<b>SP</b>	Stopping (Blanking) Plug
<b>A</b>	Type A External Fixing (A) - Type B Internal Fixing (B)
<b>O</b>	No IP O-ring
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>D</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Thread

<b>IP RATING:</b>	IP66 & Type 4X
<b>OPERATING TEMPERATURE:</b>	O-ring - None -100°C to +400°C
<b>MATERIALS:</b>	Brass, Stainless Steel or Aluminium
<b>PLATING:</b>	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)

CERTIFICATION:

<b>ATEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>IECEX</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>CEC - Canada</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Type 4X
<b>NEC - USA</b>	Class I Zone 1 AEx db IIC Gb / AEx eb IIC Gb / Class II Zone 20 AEx ta IIIC Da Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Type 4X
<b>EAC</b>	PB Ex d I Mb / 1Ex d IIC Gb X / PП Ex e I Mc / 1Ex e IIC Gb X / Ex tb IIIC Db X
<b>INMETRO - Brazil</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>CCC - China</b>	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex tD A20
<b>UKRAINE</b>	I M2 Ex db I Mb / Ex eb I Mb / II 2GD Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db
<b>CCoE - India</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
<b>RS - Russia</b>	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex tb IIIC

CERTIFICATION No:

<b>ATEX</b>	CML 19ATEX1089X
<b>IECEX</b>	IECEX CML 19.0022X
<b>CEC - Canada</b>	CSA 2310046
<b>NEC - USA</b>	CSA 2310046
<b>EAC</b>	RU C-GB.BH02.B.00693-18
<b>INMETRO - Brazil</b>	NCC 13.2189 X
<b>CCC - China</b>	2021312313000377
<b>UKRAINE</b>	CL 18.0320 X
<b>CCoE - India</b>	PESO P494321/2
<b>ABS</b>	20-LD1944057-PDA
<b>LLOYD'S</b>	LR2124442TA
<b>RS - Russia</b>	19.00189.278

STOPPING PLUG INFORMATION TABLE  
(ALL DIMENSIONS IN mm)

ISO Metric Thread	Hex Socket A/F	Overall Length	Weight (Kgs)	NPT Thread	Hex socket A/F	Overall Length	Weight (Kgs)
M12	6.0	17.0	0.011	1/4"	6.0	11.2	0.009
M16	8.0	17.0	0.025	3/8"	8.0	11.3	0.030
M20	10.0	17.0	0.035	1/2"	10.0	14.5	0.030
M25	12.0	17.0	0.060	3/4"	12.0	14.8	0.050
M32	12.0	17.0	0.105	1"	12.0	18.5	0.110
M40	14.0	17.0	0.170	1 1/4"	14.0	19.1	0.180
M50	17.0	17.0	0.265	1 1/2"	17.0	19.5	0.250
M63	17.0	17.0	0.450	2"	17.0	20.5	0.430
M75	19.0	17.0	0.600	2 1/2"	19.0	30.5	0.930
M80	22.0	22.0	0.750	3"	22.0	32.1	1.490
M85	22.0	22.0	0.880	3 1/2"	22.0	33.4	2.060
M90	22.0	22.0	0.940	4"	22.0	34.7	2.760
M100	22.0	22.0	1.030				

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.
- 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.
- Peppers supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to the general machining techniques and will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- Where approval in addition to ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.