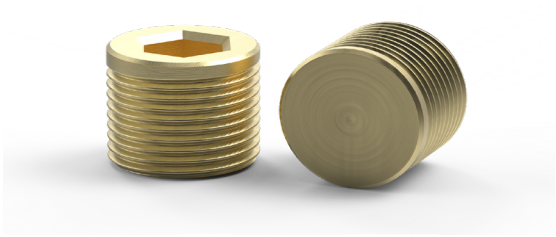
PRODUCT TYPE SPA & SPB

Metallic Stopping Plugs

Ex db : Ex eb : Ex ta : IP66 : Class I Div 1 : AEx db : AEx eb : AEx ta



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

SP	Stopping (Blanking) Plug
A	Type A External Fixing (A) - Type B Internal Fixing (B)
0	No IP O-ring
B	Brass (B) - Stainless Steel (S) - Aluminium (A)
D	Multiple Certification
NP	Nickel Plated
M20	Male Thread

IP RATING:	IP66 & Type 4X
OPERATING TEMPERATURE:	O-ring - None -100°C to +400°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)

CERTIFICATION:

UKEX	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
ATEX	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
IECEx	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
CEC - Canada	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
NEC - USA	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
EAC	PB Ex d I Mb / 1Ex d IIC Gb X / РП Ex e I Mc / 1Ex e IIC Gb X / Ex tb IIIC Db X
INMETRO - Brazil	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
CCC - China	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex tD A20
UKRAINE	I M2 Ex db I Mb / Ex eb I Mb / II 2GD Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db
CCoE - India	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb
ABS	Specified ABS Rules
LLOYD'S	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da
RS - Russia	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex tb IIIC

CERTIFICATION No:

UKEX	CML 21UKEX1039X
ATEX	CML 19ATEX1089X
IECEx	IECEx CML 19.0022X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.BH02.B.00693-18
INMETRO - Brazil	NCC 13.2189 X
CCC - China	2021312313000377
UKRAINE	СЦ 18.0320 X
CCoE - India	PESO P494321/2
ABS	20-LD1944057-PDA
LLOYD'S	LR2124442TA
RS - Russia	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 ¼"	14.0	19.1	0.180
M50	17.0	17.0	0.265	1 ½"	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 ½"	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 ½"	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 db 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.
- Aluminium versions are not suitable for Group I Mining applications.
- Only products with Metric and NPT threads are marked with CSA approval.
- Brass products are not marked or intended to be used in Class I Division 1 installations.
- 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 UKEX, ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.