

PLUGS: DOME, HEX, STOPPER

Ex db, Ex eb, Ex ta, Ex nR, IP65/66/68

for General Industrial and Hazardous Area Installations



Features and Benefits

- Precision manufactured from high quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium, stainless steel 316/316L on request. (Note: Aluminium not suitable for Group I applications.)
- Used to blank off threaded entry holes.
- Dome or Hex Head Plugs may be used to blank off an unthreaded entry hole if secured in place with a locknut.

Technical Data

Type:	Dome Plug Hex Plug Stopper Plug
Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium, Stainless Steel 316/316L
Gasket material:	Standard HDPE, Nylon, PTFE
Note:	The installer should check that the materials are suitable for the installation environment.

Standards and Certifications

Equipment Protection Levels:	IECEX/INMETRO: Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da / Ex nR IIC ATEX/UKEX:  I M2 Ex db I Mb / Ex eb I Mb,  II 2G 1D Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da CCC: Ex db IIC Gb, Ex db I Mb, Ex eb IIC Gb, Ex eb I Mb, Ex tb IIIC Db	
Conformance:	Standard:	Certificate:
IECEX	IEC 60079 Part 0, 1, 7, 15, 31	IECEX TSA 23.0024X
ATEX	EN 60079 Part 0, 1, 7, 31	CML15ATEX1040X
UKEX	BS EN 60079 Part 0, 1, 7, 31	CML 21UKEX1014X
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0,1, 7, 31	TÜV 15.0485X
CCC/CNEx (Chinese)	GB/T3836.1, 2, 3, 31-2021	CNEx 21.3392X CCC 2021312313000390
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/23-9594X
IP66/68 - Parallel	IEC 60529	CML15Y728
IP65/66 - Tapered	IEC 60529	
IP68 - Tapered and approved grease	IEC 60529	IECEX TSA 23.0024X
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC 60079 Parts 0, 1, 7, 15, 31, IEC 60529	ABS 20-1952706-1-PDA
DNV	IEC 60079 Parts 0, 1, 7, IEC 60529	TAE0000010
ClassNK	IEC 60079 Part 0, 1, 7, 15, 31	TA20273M
London Underground Approval	BS EN 62444	LU 3043, LU 3044



Conditions and limitations for Safe Use - X

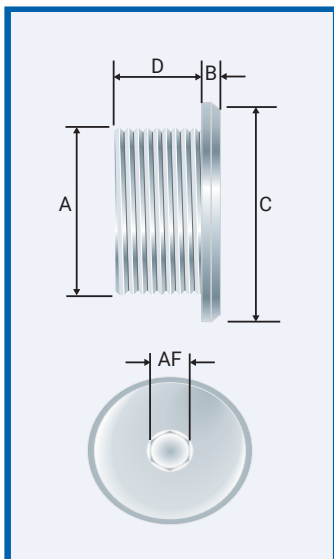
- An IP rating of IP66/68 is maintained for units with parallel threads when used with the supplied washer and units with tapered thread when thread sealant is conducted as indicated in IEC60079-14. Alternatively an IP65 rating is applicable.
- Operating temperature range -60°C to +95°C (HDPE gasket), -60°C to +100°C (nylon gasket) or -60°C to +160°C (PTFE gasket) applicable if gaskets are used to maintain IP65/66/68

Size And Thread Forms:

Metric Thread Size	BSP/NPT/NPSM Size	Torque Value (Nm)	Hex Head		Dome Head		Stopper (External Hex. Keyway)		Stopper (Internal Hex. Keyway)	
			Metric	BSP/NPT/NPSM	Metric	BSP/NPT/NPSM	Metric	BSP/NPT/NPSM	Metric	BSP/NPT/NPSM
M12	-	21.0	M12	-	M12	-	M12	-	M12	-
M16	-	21.0	M16	½	M16	½	M16	½	M16	½"
M20	½/¾	21.0	M20	3	M20	¾	M20	¾	M20	¾"
M25	¾/1	30.0	M25	1	M25	1	M25	1	M25	1"
M32	1 1/4	42.0	M32	1 ¼	M32	1 ¼	M32	1 ¼	M32	1 ¼"
M40	1 ¼/1 ½	52.0	M40	1 ½	M40	1 ½	M40	1 ½	M40	1 ½"
M50	1 ½/2	57.0	M50	2	M50	2	M50	2	M50	2"
M63	2 2/2	66.0	M63	2 ½	M63	2 ½	M63	2 ½	M63	2 ½"
M75	2 ½/3	72.0	M75	3	M75	3	M75	3	M75	3"
M80	3	80.0	M80	3 ½	M80	3 ½	M80	3 ½	M80	3 ½"
M90	3 3/2	89.0	M90	4	M90	4	M90	4	M90	4"
M100	3 ½/4	98.0	M100	-	M100	-	M100	-	M100	-
M115	4	-	M110	-	M110	-	M110	-	M110	-
M120	-	175.0	M120	-	M120	-	M120	-	M120	-
M130	-	175.0	M130	-	M130	-	M130	-	M130	-

All dimensions except NPT / BSP are in mm.

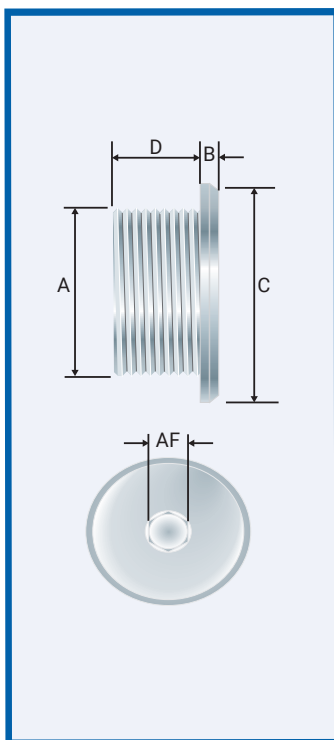
NPT - Dome Plug



Product Code	NPT Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PDN012E	½ NPT	3.0	25.0	15.0	10.0
PDN034E	¾ NPT	3.0	35.0	15.0	10.0
PDN001E	1 NPT	3.0	42.0	19.0	10.0
PDN114E	1¼ NPT	3.0	50.0	19.0	10.0
PDN112E	1½ NPT	3.0	60.0	21.0	10.0
PDN002E	2 NPT	3.0	75.0	21.0	10.0
PDN212E	2½ NPT	3.0	85.0	30.0	14.0
PDN003E	3 NPT	3.0	90.0	32.0	14.0
PDN312E	3½ NPT	3.0	102.0	33.0	14.0
PDN004E	4 NPT	3.0	115.0	34.0	14.0

All dimensions except NPT are in mm.

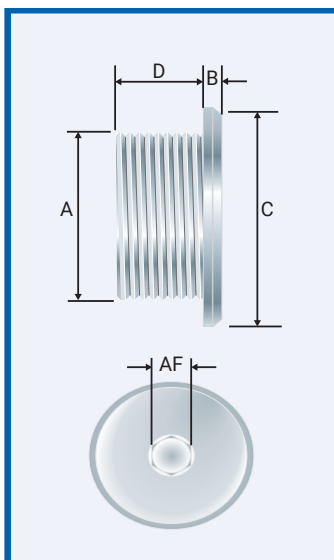
Metric - Dome Plug



Product Code	Metric Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PDM012E	M12	3.0	23.0	16.0	6.0
PDM016E	M16	3.0	22.0	16.0	10.0
PDM020E	M20	3.0	25.0	16.0	10.0
PDM025E	M25	3.0	35.0	16.0	10.0
PDM032E	M32	3.0	42.0	16.0	10.0
PDM040E	M40	3.0	50.0	16.0	10.0
PDM050E	M50	3.0	60.0	16.0	10.0
PDM063E	M63	3.0	70.0	16.0	14.0
PDM075E	M75	3.0	85.0	16.0	14.0
PDM080E	M80x2P	3.0	90.0	20.0	14.0
PDM090E	M90x2P	3.0	100.0	20.0	14.0
PDM100E	M100x2P	3.0	110.0	20.0	14.0
PDM110E	M110x2P	4.0	120.0	22.0	14.0
PDM120E	M120x2P	4.0	130.0	22.0	14.0
PDM130E	M130x2P	4.0	140.0	22.0	14.0

All dimensions are in mm.

BSP - Dome Plug

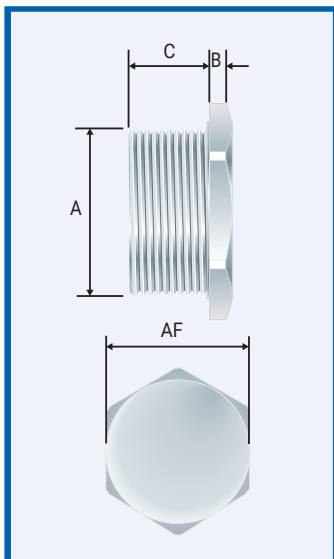


Product Code	BSP Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PDB012E	½ BSP	3.0	27.0	16.0	10.0
PDB034E	¾ BSP	3.0	32.0	16.0	10.0
PDB001E	1 BSP	3.0	38.0	20.0	10.0
PDB114E	1¼ BSP	3.0	50.0	20.0	10.0
PDB112E	1½ BSP	3.0	60.0	20.0	10.0
PDB002E	2 BSP	3.0	75.0	20.0	10.0
PDB212E	2½ BSP	3.0	85.0	20.0	14.0
PDB003E	3 BSP	3.0	90.0	20.0	14.0
PDB312E	3½ BSP	3.0	100.0	20.0	14.0
PDB004E	4 BSP	3.0	120.0	20.0	14.0

All dimensions except BSP are in mm.

See Handi Fit and/or Posi Fit Junction Box data sheet for Non Metallic Plug

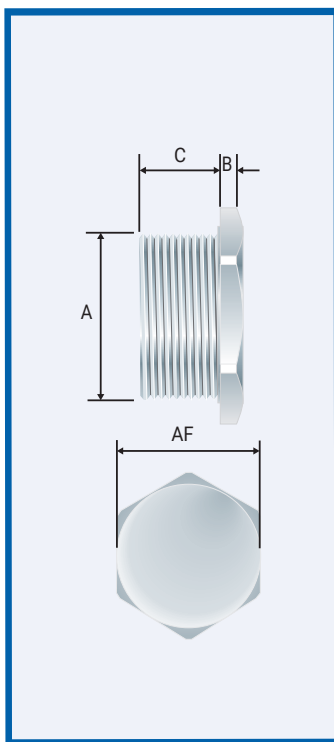
NPT - Hex Plug



Product Code	NPT Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PHN012E	½ NPT	6.0	1.5	15.0	22.0
PHN034E	¾ NPT	6.0	1.5	15.0	27.0
PHN001E	1 NPT	6.0	1.5	19.0	34.0
PHN114E	1¼ NPT	6.0	1.5	19.0	43.0
PHN112E	1½ NPT	6.0	1.5	21.0	50.0
PHN002E	2 NPT	6.0	1.5	21.0	62.0
PHN212E	2½ NPT	6.0	1.5	30.0	74.0
PHN003E	3 NPT	6.0	1.5	32.0	90.0
PHN312E	3½ NPT	6.0	1.5	33.0	102.0
PHN004E	4 NPT	6.0	1.5	34.0	115.0

All dimensions except NPT are in mm.

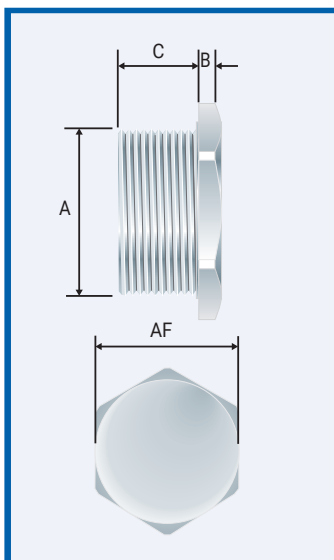
Metric - Hex Plug



Product Code	Metric Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PHM012E	M12	6.0	1.5	16.0	18.7
PHM016E	M16	6.0	1.5	16.0	22.0
PHM020E	M20	6.0	1.5	16.0	25.0
PHM025E	M25	6.0	1.5	16.0	32.0
PHM032E	M32	6.0	1.5	16.0	38.0
PHM040E	M40	6.0	1.5	16.0	50.0
PHM050E	M50	6.0	1.5	16.0	60.0
PHM063E	M63	6.0	1.5	16.0	70.0
PHM075E	M75	6.0	1.5	16.0	80.0
PHM080E	M80x2P	6.0	1.5	20.0	90.0
PHM090E	M90x2P	6.0	1.5	20.0	100.0
PHM100E	M100x2P	6.0	1.5	20.0	110.0
PHM110E	M110x2P	9.0	2.0	22.0	125.0
PHM120E	M120x2P	10.0	2.0	22.0	135.0
PHM130E	M130x2P	10.0	2.0	22.0	135.0

All dimensions are in mm.

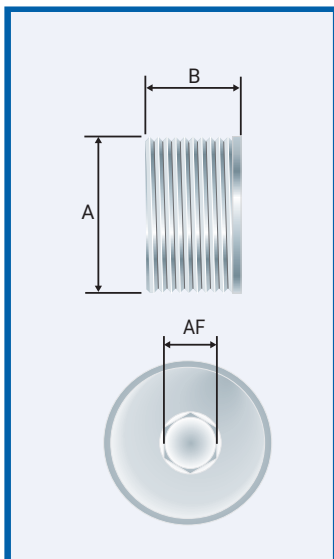
BSP - Hex Plug



Product Code	BSP Dimension 'A'	Dimension Min 'B'	Dimension Min 'C'	Dimension 'D'	Dimension A/F Min *
PHB012E	½ BSP	6.0	1.5	16.0	27.0
PHB034E	¾ BSP	6.0	1.5	16.0	32.0
PHB001E	1 BSP	6.0	1.5	20.0	38.0
PHB114E	1¼ BSP	6.0	1.5	20.0	50.0
PHB112E	1½ BSP	6.0	1.5	20.0	60.0
PHB002E	2 BSP	6.0	1.5	20.0	70.0
PHB212E	2½ BSP	6.0	1.5	20.0	80.0
PHB003E	3 BSP	6.0	1.5	20.0	90.0
PHB312E	3½ BSP	6.0	1.5	20.0	100.0
PHB004E	4 BSP	6.0	1.5	20.0	120.0

All dimensions except BSP are in mm.

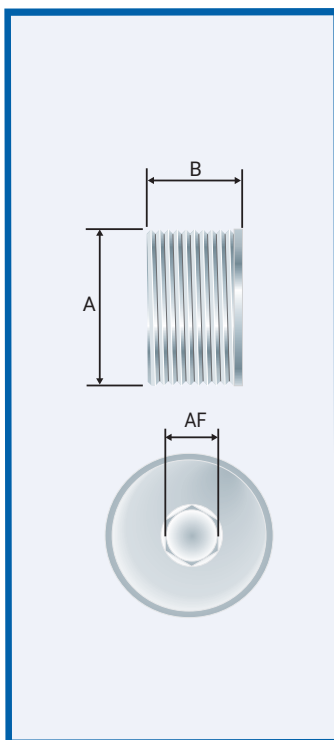
See Handi Fit and/or Posi Fit Junction Box data sheet for Non Metallic Plug



NPT - Stopper Plug

Product Code Outside Enclosure	Product Code Inside Enclosure	NPT Dimension 'A'	Dimension Min. 'A'	Dimension +2.0 - 0.0 'B'	Dimension Min. 'C'	Dimension A/F Min *
PSN012E	PSN012ER	½ NPT	21.6	15.0	10.2	10.0
PSN034E	PSN034ER	¾ NPT	26.9	15.0	10.2	10.0
PSN001E	PSN001ER	1 NPT	33.7	19.0	10.2	10.0
PSN114E	PSN114ER	1¼ NPT	42.4	19.0	10.2	10.0
PSN112E	PSN112ER	1½ NPT	48.5	21.0	14.2	14.0
PSN002E	PSN002ER	2 NPT	60.6	21.0	14.2	14.0
PSN212E	PSN212ER	2½ NPT	73.4	30.0	14.2	14.0
PSN003E	PSN003ER	3 NPT	89.3	32.0	14.2	14.0
PSN312E	PSN312ER	3½ NPT	102.0	33.0	14.2	14.0
PSN004E	PSN004ER	4 NPT	114.7	34.0	14.2	14.0

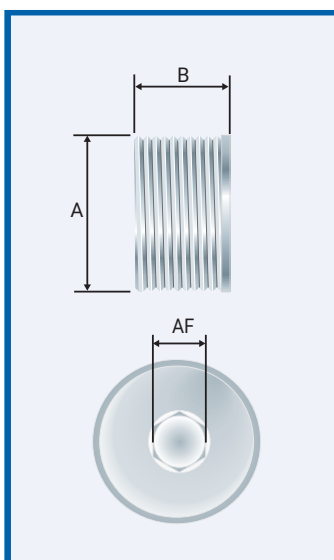
All dimensions except NPT are in mm.



Metric - Stopper Plug

Product Code Outside Enclosure	Product Code Inside Enclosure	Dimension Min 'A'	Dimension +2.0 - 0.0 'B'	Dimension A/F Min *
PSM012E	PSM012ER	M12	11.8	6.0
PSM016E	PSM016ER	M16	17.0	10.0
PSM020E	PSM020ER	M20	17.0	10.0
PSM025E	PSM025ER	M25	17.0	10.0
PSM032E	PSM032ER	M32	17.0	10.0
PSM040E	PSM040ER	M40	17.0	10.0
PSM050E	PSM050ER	M50	17.0	10.0
PSM063E	PSM063ER	M63	17.0	14.0
PSM075E	PSM075ER	M75	17.0	14.0
PSM080E	PSM080ER	M80x2P	21.0	14.0
PSM090E	PSM090ER	M90x2P	21.0	14.0
PSM100E	PSM100ER	M100x2P	21.0	14.0
PSM110E	PSM110ER	M110x2P	22.0	14.0
PSM120E	PSM120ER	M120x2P	22.0	14.0
PSM130E	PSM130ER	M130x2P	22.0	14.0

All dimensions are in mm.



BSP - Stopper Plug

Product Code Outside Enclosure	Product Code Inside Enclosure	Dimension Min 'A'	Dimension +2.0 - 0.0 'B'	Dimension A/F Min *
PSB012E	PSB012ER	½ BSP	17.0	10.0
PSB034E	PSB034ER	¾ BSP	17.0	10.0
PSB001E	PSB001ER	1 BSP	21.0	10.0
PSB114E	PSB114ER	1¼ BSP	21.0	10.0
PSB112E	PSB112ER	1½ BSP	21.0	10.0
PSB002E	PSB002ER	2 BSP	21.0	10.0
PSB212E	PSB212ER	2½ BSP	21.0	14.0
PSB003E	PSB003ER	3 BSP	21.0	14.0
PSB312E	PSB312ER	3½ BSP	21.0	14.0
PSB004E	PSB004ER	4 BSP	21.0	14.0

All dimensions except BSP are in mm.

See Handi Fit and/or Posi Fit Junction Box data sheet for Non Metallic Plug