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Metallic dome head (Exd/Exe) stopping plugs – PD-U Series

Technical specification

Redapt PD-U series of stopping plugs provide a method of blanking off unused entries in hazardous area approved equipment whilst ensuring the integrity and Ex approval of the installation is maintained.

Manufactured to facilitate easy installation, they are also supplied complete with a captive O-ring seal. The O-ring is located within a recess on the face of the product, helping to protect the O-ring from the environmental damage and ensuring it is not displaced during installation.

Type PD-U

Certifications and compliances

IECEx CCOE

Code of protection categories

ATEX: I M2, II 2 GD

IECEx: Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex tb IIIC Db (Aluminium not mining)

CSA: Ex db / Ex eb IIC Gb IP66/67/68

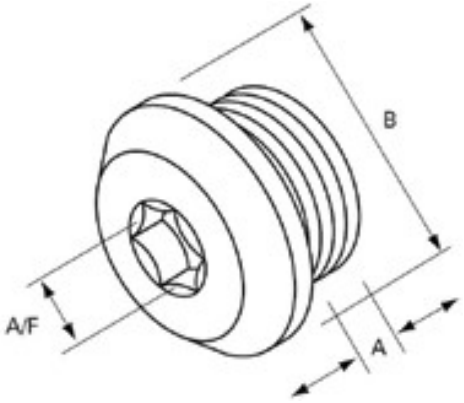
CI I Zn 1 AEx eb / AEx db IIC Gb

CI I Div1 Gr ABCD CI II Gr EFG CI III; Type 4X/6P

Compliance standards

ATEX/IECEx: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-31

CSA: CAN/CSA C22.2 No. 60079-0, No. 60079-1, No. 60079-7, ANSI/UL 60079-0, 60079-1, 60079-7, UL1203



Certificate details

ATEX: ITS16ATEX101335X

IECEx: IECEx ITS 16.0012X

CSA: CSA01CA1248014X

EAC: RU C-GB.МЮ62.B.06226

CCoE: P362565/1

INMETRO: NCC 18.0133 X

Ingress protection (IP):

IP66, IP68, CSA Enclosure Type (NEMA) 4X, 6P

Plating options

Electroless nickel
Zinc
Chromated
Others on application

Threadforms

Metric
NPT
NPSM
Pg
ISO pipe (BSP)
ET

Temperature

Temperature will depend on the type of O-ring used

None: -60°C to +200°C
Nitrile: -30°C to +80°C (supplied as standard)
EPDM: -50°C to +100°C
Neoprene: -40°C to +80°C
Viton: -20°C to +180°C
Silicone: -60°C to +180°C
Fluorosilicone: -60°C to +130°C

The maximum temperature is limited to +150°C for Group I applications

Dimensions

Size	Thread length (A)	Hex (Allen) key A/F	Diameter (B)
M16	15.00	10.00	22.00
M20	15.00	10.00	27.00
M25	15.00	10.00	31.75
M32	15.00	10.00	40.00
M40	15.00	10.00	47.63
M50	15.00	10.00	57.15
M63	15.00	14.00	69.85
M75	15.00	14.00	82.55

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Metallic dome head (Exd/Exe) stopping plugs – Product coding

Product	DIGITS 1 & 2
Dome head PLUG	PD

Certification	DIGIT 3
U	Exd I and IIC & Exe I and IIC

Material	DIGIT 4
1	Brass
2	Mild steel
3	Stainless steel
5	Aluminium

Plating	DIGIT 5
0	Unplated
1	Electroless nickel
2	Zinc
6	Chromated

Notes: threadform codes below to be used for both male and female threads.
For use in NPT Exd applications, choose PAU or PBU products.

DIGITS 6 & 7 Male thread ; DIGITS 8 & 9 Female thread

Metric	ET imperial conduit	NPT	NPSM	ISO pipe parallel (BSPP)	ISO pipe taper (BSPT)	PG
02 M12						
03 M16	17 5/8" ET	29 ½" NPT	42 ½" NPSM	55 ½" BSPP	68 ½" BSPT	79 PG7
04 M20	18 ¾" ET	30 ¾" NPT	43 ¾" NPSM	56 ¾" BSPP	69 ¾" BSPT	80 PG9
05 M25	19 1" ET	31 1" NPT	44 1" NPSM	57 1" BSPP	70 1" BSPT	81 PG11
06 M32	20 1¼" ET	32 1¼" NPT	45 1¼" NPSM	58 1¼" BSPP	71 1¼" BSPT	82 PG13.5
07 M40	21 1½" ET	33 1½" NPT	46 1½" NPSM	59 1½" BSPP	72 1½" BSPT	83 PG16
08 M50	22 2" ET	34 2" NPT	47 2" NPSM	60 2" BSPP	73 2" BSPT	84 PG21
09 M63	23 2½" ET	35 2½" NPT	48 2½" NPSM	61 2½" BSPP	74 2½" BSPT	85 PG29
10 M75	24 3" ET	36 3" NPT	49 3" NPSM	62 3" BSPP	75 3" BSPT	86 PG36
11 M80 x 2.0	ET Special	37 3½" NPT	50 3½" NPSM	63 3½" BSPP	76 3½" BSPT	87 PG42
12 M85 x 2.0		38 4" NPT	51 4" NPSM	64 4" BSPP	77 4" BSPT	88 PG48
13 M90 x 2.0		NT Special	NS Special	BP Special	BT Special	PG Special
14 M100 x 2.0						
15 M110 x 2.0						
BZ M120 x 2.0						

Example

Digits 1&2		Digit 3		Digit 4		Digit 5		Digits 6&7		Digits 8&9
PD	-	**U**	-	**1**	-	**1**	-	**29**	-	**04**
Plug		Exd/e certified		Brass		Nickel-plated		1/2" NPT (male)		M20 (female)

Always quote male thread first.

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Thread dimension chart

ISO metric

BS 3643 1.5mm pitch

Size	Major dia.	TPI
M12	11.97	16.93
M16	15.97	16.93
M20	19.97	16.93
M25	24.97	16.93
M32	31.97	16.93
M40	39.97	16.93
M50	49.97	16.93
M63	62.97	16.93
M75	74.97	16.93
2.0mm pitch		
M80	79.97	12.70
M85	84.97	12.70
M90	89.97	12.70
M100	99.97	12.70
M110	109.97	12.70
M120	119.97	12.70

NPT

ANSI.ASME B1.20.1

Size	Pipe dia.	TPI
½"	21.34	14.00
¾"	26.67	14.00
1"	33.40	11.50
1¼"	42.16	11.50
1½"	48.26	11.50
2"	60.33	11.50
2½"	73.03	8.00
3"	88.90	8.00
3½"	101.60	8.00
4"	114.30	8.00

PG

DIN 40430

Size	Major dia.	TPI
PG7	12.50	20.00
PG9	15.20	18.00
PG11	18.60	18.00
PG13.5	20.40	18.00
PG16	22.50	18.00
PG21	28.30	16.00
PG29	37.00	16.00
PG36	47.00	16.00
PG42	54.00	16.00
PG48	59.30	16.00

Alternate ISO pipe thread designations

UK	**BSP P**arallel or **T**aper BS2279 (BS21)
Europe	**G** (Parallel) **GK** (Taper) **R** (Parallel) **RK** (Taper)
Japan	**PF** (Parallel) JIS B 303
CIS	**K mpy** (Taper)

BSP ISO pipe thread

ISO R/7; UNI 6125

Size	Pipe Dia.	TPI
⅜"	16.66	19.00
½"	20.96	14.00
¾"	26.44	14.00
1"	33.25	11.00
1¼"	41.91	11.00
1½"	47.80	11.00
2"	59.61	11.00
2½"	75.18	11.00
3"	87.88	11.00

ET imperial conduit

BS31

Size	Major dia.	TPI
⅝"	15.88	18.00
¾"	19.05	16.00
1"	25.40	16.00
1¼"	31.75	16.00
1½"	38.10	14.00
2"	50.80	14.00
2½"	63.50	14.00
3"	76.20	14.00

Thread dimension substitution chart

Metric	NPT (or NPS)	PG	BSP ISO Pipe	ET
M16	–	7, 9	–	⅝"
M20	½"	11, 13.5	½"	¾"
M25	¾"	16	¾"	1"
M32	1"	21	1"	1¼"
M40	1¼"	29	1¼"	1½"
M50	1½"	36	1½"	2"
M63	2"	42, 48	2"	2½"
M75	2½"	–	2½"	3"
M90 x 2.0	3"	–	3"	–
M100 x 2.0	3½"	–	–	–
M110 x 2.0	–	–	–	–
M120 x 2.0	–	–	–	–

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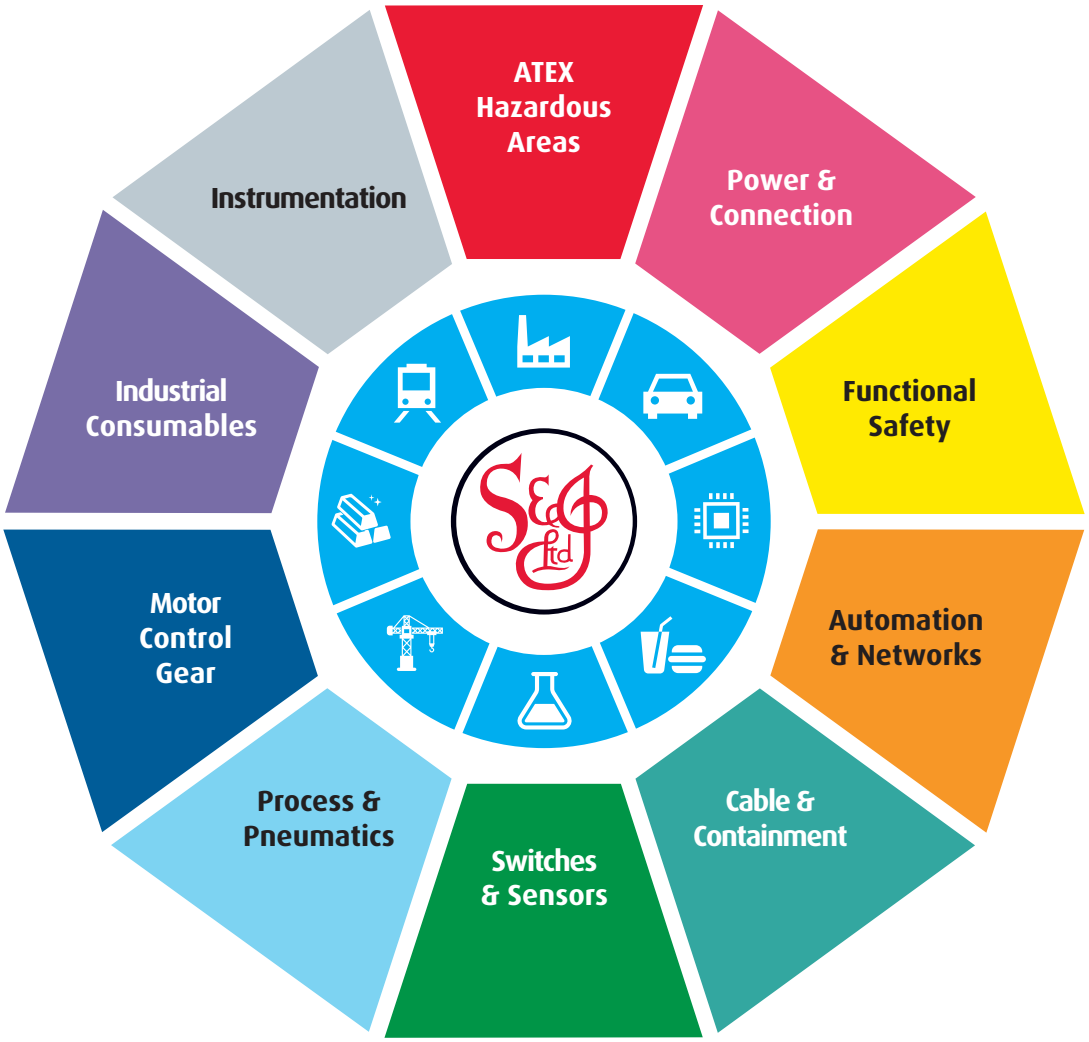

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