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Stopping plugs - type CB and type CF

Technical specification

The comprehensive Raxton range of stopping plugs are designed to close off any unused entries in electrical equipment, whilst maintaining existing certification and ingress protection.

Type CB RX stopping plugs

Type CB RX stopping plugs are inserted with the Allen/hex key aperture pointing away from the equipment and tightened from the outside.

Type CF tamper-proof stopping plugs

Type CF tamper-proof stopping plugs are inserted from the outside with the Allen/hex key aperture pointing towards the equipment and then tightened from the inside, leaving a flush finish to prevent unauthorised removal.

All Raxton stopping plugs are marked with the appropriate approval numbers and size.

Type CB

Type CF

Dimensions ISO

Thread	Allen/hex key aperture A/F (mm)	Thread length L (mm)
M16	6.0	17.0
M20	10.0	17.0
M25	10.0	17.0
M32	10.0	17.0
M40	19.0	17.0
M50	19.0	17.0
M63	19.0	17.0
M75	19.0	17.0

Dimensions NPT

Thread	Allen/hex key aperture A/F (mm)	Thread length L (mm)
1/2 NPT	14.0	10.0
3/4 NPT	14.0	10.0
1 NPT	17.5	10.0
1 1/4 NPT	18.0	10.0
1 1/2 NPT	18.5	14.0
2 NPT	19.5	14.0
2 1/2 NPT	29.0	14.0
3 NPT	30.5	14.0

Certifications and compliances

Code of protection categories

ATEX: I/II 2 GD, Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex tb IIIC Db IP66

IECEx / INMETRO / EAC: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP66

CSA: Cl I Zn 1 AEx db IIC Gb, Ex db IIC Gb (see certificate for threadforms & material details)

CCC: Ex d IIC Gb, Ex e IIC Gb, Ex tD A21 IP6X

Compliance standards

ATEX / EAC: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31

IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC60079-31

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

INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR

CCC: GB 3836.1-2010, GB 3836.2-2010, GB 3836.3-2010, GB 12476.1-2013, GB 12476.5-2013

Certificate details

ATEX: ITS16ATEX101335X

IECEx: IECEx ITS16.0012X

CSA: 200455-1003277

EAC: TC RUC-G B.MЮ62.B.06226

INMETRO: NCC 18.0133X

CCC: 2020322313001352

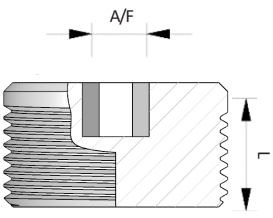
Temperature

-60°C to +200°C

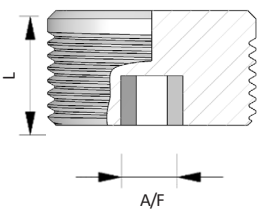
Ingress protection (IP)

IP66/68 (according to manufacturer's instructions).

Type CB



Type CF



Other sizes / theads are available upon request.

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Stopping plugs - type CK and type CY

Technical specification

The comprehensive Raxton range of stopping plugs are designed to close off any unused entries in electrical equipment, whilst maintaining existing certification and ingress protection.

Type CK hex head stopping plugs

Type CK hex head stopping plugs are inserted from the outside of the equipment and tightened by means of a spanner.

Type CY hollow hex head stopping plugs

Type CY hollow hex head stopping plugs are a hollow version of the type CK hex head plug. These are lighter and have Ex d/ Ex e certification. The type CY plug is not suitable for mining applications.

All Raxton stopping plugs are marked with the appropriate approval numbers and size.

Type CK

Type CY

Certifications and compliances

Code of protection categories

ATEX: I/II 2 GD Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb (Gr I not for type CY)

IECEx/ INMETRO/ Ex tb IIIC Db IP66

EAC: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP66 (Group I not for Type CY)

CSA: Cl I Zn 1 AEx db IIC Gb, Ex db IIC Gb (see certificate for threadforms & material details)

CCC: Ex d IIC Gb, Ex e IIC Gb, Ex tD A21 IP6X

Compliance standards

ATEX / EAC: EN 60079-0, EN 60079-1, EN 60079-7,EN 60079-31

IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC60079-31

CSA: CSA-C22.2 No. 60079-0, CSA-C22.2 No. 60079-1

ANSI/UL 60079-0, ANSI/UL 60079-1 (not NPT threads forn CY)

INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31

CCC: GB 3836.1-2010, GB 3836.2-2010, GB 3836.3-2010, GB 12476.1-2013, GB 12476.5-2013

Certificate details

ATEX: ITS16ATEX101335X

IECEx: IECEx ITS16.0012X

CSA: 200455-1003277

EAC: TC RUC-G B.MЮ62.B.06226

INMETRO: NCC 18.0133X

CCC: 2020322313001352

Temperature

-60°C to +200°C ; depending on O-ring or sealing washer used

Ingress protection (IP)

IP66/68 (according to manufacturer's instructions).

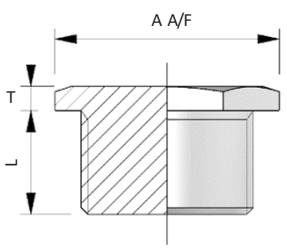
Dimensions ISO

Thread	Overall length A A/F (mm)	Thread length L (mm)	Head depth T (mm)
M12	14.0	15.0	3.5
M16	19.0	15.0	4.0
M20	24.0	15.0	4.0
M25	27.9	15.0	4.0
M32	37.6	15.0	4.0
M40	47.2	15.0	5.0
M50	55.9	15.0	6.0
M63	70.0	15.0	7.0
M75	80.0	15.0	8.0
M80	90.0	20.0	9.0
M90	95.0	20.0	10.0
M100	105.0	20.0	11.0

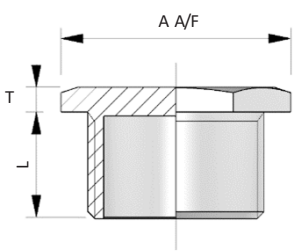
Dimensions NPT

Thread	Overall length A A/F (mm)	Thread length L (mm)	Head depth T (mm)
1/2 NPT	24.0	20.2	4.0
3/4 NPT	30.0	20.5	4.0
1 NPT	38.1	25.3	4.0
1 1/4 NPT	50.8	26.0	4.5
1 1/2 NPT	57.2	26.5	5.5
2 NPT	70.0	27.2	7.0
2 1/2 NPT	80.0	40.5	8.0
3 NPT	95.0	42.0	10.0

Type CK



Type CY



Other sizes / theads are available upon request.

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Stopping plugs - type CQ

Technical specification

The comprehensive Raxton range of stopping plugs are designed to close off any unused entries in electrical equipment, whilst maintaining existing certification and ingress protection.

Type CQ dome head stopping plugs

Type CQ dome head stopping plugs can be offered as an alternative to the hex head stopping plug and are inserted from the outside of the equipment and tightened by means of an Allen or hex key.

Type CQ dome head stopping plugs are available as metallic Ex d/Ex e or nylon Ex e versions. The nylon version is supplied with an undercut and EPDM O-ring as standard.

All Raxton stopping plugs are marked with the appropriate approval numbers and size.

Type CQ

Type CQ

Type CQ plugs - certifications and compliances

Code of protection categories

ATEX: I/II 2 GD, Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb (Nylon not Gr I) Ex tb IIIC Db IP66

IECEx / INMETRO / EAC: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP66

CSA (not for Nylon): Cl I Zn 1 AEx db IIC Gb, Ex db IIC Gb (see certificate for threadforms & material details)

CCC: Ex d IIC Gb, Ex e IIC Gb, Ex tD A21 IP6X

Compliance standards

ATEX / EAC: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31

INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31

IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC60079-31

CSA (not for Nylon): CSA-C22.2 No. 60079-0, CSA-C22.2 No. 60079-1 ANSI/UL 60079-0, ANSI/UL 60079-1

CCC: GB 3836.1-2010, GB 3836.2-2010, GB 3836.3-2010, GB 12476.1-2013, GB 12476.5-2013

Certificate details

ATEX: ITS16ATEX101335X

IECEx: IECEx ITS16.0012X

CSA: 200455-1003277 (brass and stainless only)

EAC: TC RUC-G B.MIO62.B.06226

INMETRO: NCC 18.0133X

CCC: 2020322313001352

* Ex db I Mb, Ex eb I Mb (except for aluminum & nylon)

Temperature

The item is classified as a component and therefore metallic products are not given an operating temperature range.

Ingress protection (IP):

IP66/68 (according to manufacturer's instructions)

Dimensions ISO – CQ & CQM series

Thread	F A/F + .3 - .0 (mm)	A Ø (mm)	Head depth T (mm)	Thread length L (mm)
M16	6.0	20.0	5.0	15.0
M20	10.0	25.0	5.0	15.0
M25	10.0	30.0	5.0	15.0
M32	10.0	38.0	5.0	15.0
M40	19.0	46.0	5.0	15.0
M50	19.0	57.0	5.0	15.0
M63	19.0	70.0	5.0	15.0
M75	19.0	82.0	5.0	15.0

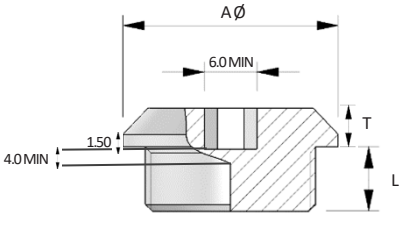
Dimensions NPT – CQ series

Thread	F A/F + .3 - .0 (mm)	A Ø (mm)	Head depth T (mm)	Thread length L (mm)
1/2 NPT	10.0	27.0	5.0	20.2
3/4NPT	10.0	32.0	5.0	20.5
1 NPT	10.0	40.0	5.0	25.3
1 1/4NPT	19.0	50.0	5.0	26.0
1 1/2NPT	19.0	54.0	5.0	26.5
2 NPT	19.0	67.0	5.0	27.2
2 1/2NPT	19.0	83.0	5.0	40.5

Dimensions NPT – CQM series

Thread	F A/F + .3 - .0 (mm)	A Ø (mm)	Head depth T (mm)	Thread length L (mm)
1/2 NPT	10.0	27.0	5.0	20.0
3/4NPT	10.0	33.0	5.0	20.2
1 NPT	10.0	40.0	5.0	25.1
1 1/4NPT	19.0	50.0	5.0	25.7
1 1/2NPT	19.0	54.0	5.0	26.1
2 NPT	19.0	67.0	5.0	26.9
2 1/2NPT	19.0	83.0	5.0	40.0

Type CQ



Other sizes / theads are available upon request.

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Stopping plugs – Product coding

DIGIT 1+2		CODE
Product	Description	
PLUGS	RX (External Accessible)	CB
	TAMPERPROOF (Internal Accessible)	CF
	HEX HEAD	CK
	HEX HEAD (Hollow)	CY
	DOME HEAD	CQ

Glass filled Nylon available in CQ type only

DIGIT 3	CODE
MATERIAL	
BRASS	A
ALUMINUM	B
STEEL	C
STAINLESS STEEL	E
GLASS FILLED NYLON	M

DIGIT 8 (APPROVAL)	CODE
Exd/Exe	Y
Nylon (Exe only)	E
None	F

DIGIT 9 (Undercut)	CODE
Yes	U
None	X or Blank

DIGIT 10 (PLATING)	CODE
None	Blank
Nickel	N
Zinc	Z

DIGIT 4+5 (Male thread) **DIGIT 6+7 (Female thread)**

THREAD REFERENCE TABLE

ISOMETRIC		NPT		BSPT		BSPP		NPSM		PG		ET	
SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE
M12	04	½"	42	½"	52	½"	62	½"	72	PG7	20	⅝"	31
M16	11	¾"	43	¾"	53	¾"	63	¾"	73	PG9	21	¾"	32
M20	12	1"	44	1"	54	1"	64	1"	74	PG11	22	1"	33
M22	07	1¼"	45	1¼"	55	1¼"	65	1¼"	75	PG13,5	23	1¼"	34
M24	08	1½"	46	1½"	56	1½"	66	1½"	76	PG16	24	1½"	35
M25	13	2"	47	2"	57	2"	67	2"	77	PG21	25	2"	36
M28	09	2½"	48	2½"	58	2½"	68	2½"	78	PG29	26	2½"	37
M32	14	3"	49	3"	59	3"	69	3"	79	PG36	27	3"	38
M38	05	3½	86	4"	79	4"	89	3½	90	PG42	28		
M40	15	4"	87	SPECIAL	50	SPECIAL	60	4"	70	PG48	29		
M50	16	SPECIAL	40					SPECIAL	70				
M63	17												
M75	18												
M80	80												
M90	81												
M100	82												
SPECIAL	10												

NOTE: Male thread is always quoted First (Digit 4+5) followed by the Female thread (Digit 6+7)
Other threads are available, please consult the sales department
Digit 8 Approval
Digit 9: U = Undercut Otherwise Blank or use X if Plating is required
Digit 10 (Plating) is Blank if no plating is required

EXAMPLES

Product	Material	Male thread	Female thread	Approval	Undercut	Plating	
Plug	Brass	½" NPT	N/A	Exd/Exe	None	Nickel	Part Number
CQ	A	42	00	Y	X or Blank	N	CQA4200YXN
Plug	GF Nylon	M20	N/A	Exe	Yes	None	Part Number
CQ	M	12	00	E	U	Blank	CQM1200EU

NB : Necessary precautions should be taken for NPT CY and CK series in ExD applications

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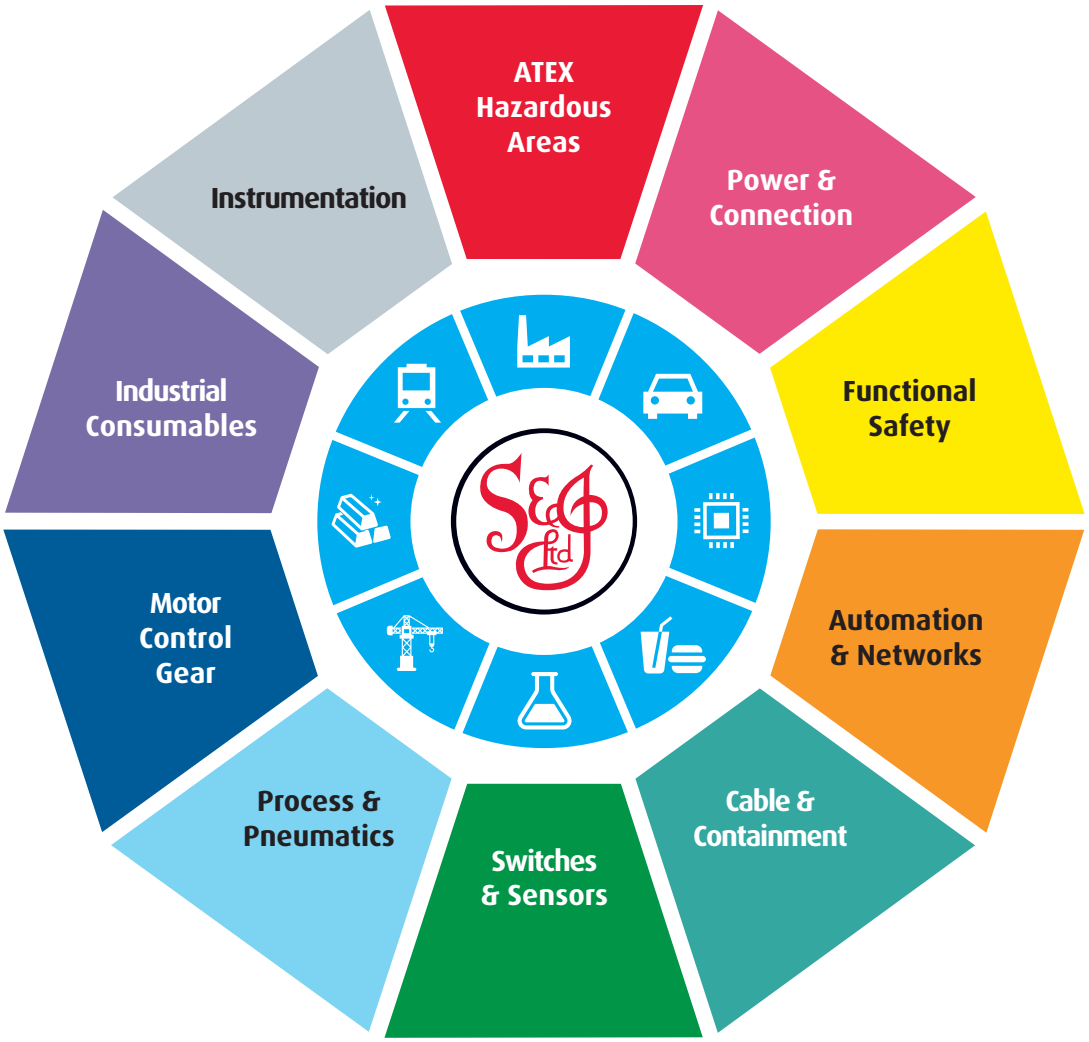

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