Raxton thread conversion accessories

The safety you rely on.

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Energizing a world that demands more.

We deliver:

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As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

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We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2015 sales of $20.9 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

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Contents

Global Cable Glands Solution

Eaton's Crouse-Hinds Division provides a termination solution for virtually every cable type used in hazardous and industrial environments – both onshore and offshore and above and below ground. Our cable glands and accessory products are designed for strict adherence to global specifications for IEC and NEC wiring standards, meeting International and North American certification requirements including ATEX, IECEx, UL and regional certifications. Our products are also certified for dust and mining applications.

From the deserts of Africa to the icy waters of the North Sea, the world turns to Eaton's Crouse-Hinds Division for its complete range of cable installation products. Our cable glands, thread conversion products and cable installation accessories are used in industrial and commercial applications throughout the world enhancing safety and productivity in the most severe environmental conditions.

Eaton's Crouse-Hinds Division cable glands are the easiest and safest solution for your installation and maintenance needs. In any electrical or instrumentation installation, our glands are the reliable and safe way to move power and signals.

Global Support & Manufacturing

Our sales support and manufacturing facilities are strategically positioned around the world to deliver products close to your project. Whenever required we are there on-site during construction, commissioning and training.

Eaton's Crouse-Hinds Division manufactures in 5 continents and sells into more than 100 countries. We have dedicated sales support in every major location with local technical sales and engineering teams to support your immediate needs. As one of the largest oil & gas bulk electrical and instrument material suppliers, we can easily provide you a single source for all the components to complete your project on time and on budget.

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A Powerful Transformation

Rely on the names you trust for the safety you need

The Raxton products you know are evolving. Our products, part of Eaton's Crouse-Hinds Division portfolio, are now united with Eaton's leading range of reliable, efficient and safe electrical power management solutions. Combined, we provide the world's largest portfolio of electrical equipment for explosive, classified, and industrial areas.

With unsurpassed product reliability and quality, industry-leading innovation and product efficiency, and products designed and certified for global specifications, Eaton's Crouse-Hinds Division's solutions, including Raxton products, delivers proven solutions for harsh and hazardous environments.

Raxton has a new look as Eaton's Crouse-Hinds Division, but the products and technology you trust remain unchanged. From explosion-proof panel boards and lighting to connectivity and cable glands, the broadest offering of solutions for harsh and hazardous environments is now available from Eaton's Crouse-Hinds Division.

More protection. More technology. Expect more.

Adaptors

Technical specification

Raxton Exd/Exe adaptors provide a means of connection between dissimilar thread forms or sizes. Metallic adaptors have a hexagonal body; if space is a critical factor, round adaptors can be offered with an equivalent diameter of the standard hexagonal item.

Nylon adaptors are Exe only and are produced with a round body. Exe adaptors are supplied fitted with an undercut and EPDM O-ring to maintain the IP integrity of the installation, other O-ring materials are available.

Raxton adaptors are marked with the applicable approval number and size.

Type AB Hex

Type AJ Round

Metallic adaptors - certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, or II G, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC, Ex e I/IIC, Ex tb IIIC Db,
CSA: Ex d IIC Class I, Zone I, AEx d IIC (brass and stainless only)
GOST: ExdeI/IICU, ExdeIICU, ExeIIU
INMETRO: Ex de I/IIC Mb/Gb, Ex tb IIIC Db IP66/67
NEPSI: Ex d II C Gb, Ex e II C Gb, DIP A21 Ta IP6X

Compliance standards

ATEX / GOST: 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
CSA: CAN/CSA-E79-0, CAN/CSA-E79-1, IEC 60079-0, IEC 60079-1 (brass and stainless only)
NEPSI: GB 3836.1, GB 3836.2, GB 3836.3, GB 12476.1

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
IECEx: IECEx SIR 07.0010X, IECEx SIR 12.0014X, IECEx ITS16.0011X
CSA: CSA 200455-1003277 (brass and stainless only)
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X
NEPSI: GYJ13.1313X

Nylon adaptors - certifications and compliances

Code of protection categories

ATEX: II 2 GD, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex e IIC Gb, Ex tb IIIC Db
GOST: ExeIIU
INMETRO: Ex e IIC Gb, Ex tb IIIC Db IP66/67
NB: M16 has ATEX approval only

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-7, EN 60079-31
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 60079-31

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
Sira 00ATEX1073U (M16 nylon only)
IECEx: IECEx SIR 07.0010X, IECEx SIR 12.0014X, IECEx ITS16.0011X
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Temperature

The item is classified as a component; metallic products are not given an operating temperature range. Nylon temperature range: -20°C to +65°C.
GF nylon is UL rated @ V.O. @ 3.0mm.

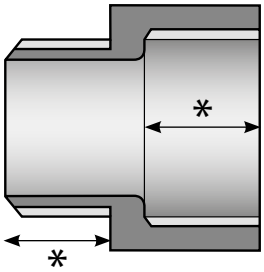
Ingress protection (IP):

Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

Product dimensions

Thread	Type AB metallic male thread max. bore (mm)	Type AJ nylon male thread max. bore (mm)	Type AB metallic thread A/F (mm)	Type AJ nylon head diameter (mm)
M16	11.0	8.0	20.8	24.0
M20	14.3	12.5	23.4	27.5
M25	20.5	17.5	27.9	35.5
M32	26.8	24.5	37.6	41.0
M40	33.5	32.5	47.2	50.0
M50	44.0	42.5	56.4	60.0
M63	55.2	53.0	70.1	75.0
M75	66.7	64.0	80.0	85.0
M90 x 2.0	80.0	76.0	105.0	100.0

Metallic adaptors are available for up to two step sizing, e.g. M20 male x M32 female
Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	Adaptor	Brass	1"NPT (M)	M32 (F)	Exd / Exe	PART NUMBER
	AB	**A**	**44**	**14**	**Y**	**= ABA4414Y**

For full product coding details, consult page 29.

Reducers

Technical specification

Raxton Exd/Exe reducers effectively reduce the threaded entry diameter of an enclosure to accept a gland or fitting with a smaller thread. Reducers may also be supplied to accept smaller glands of alternative threads.

Metallic reducers are supplied with a hexagonal head as standard. If space is a critical factor, round reducers can be offered with an equivalent diameter.

Nylon reducers are Exe only and designed with a circular head. Exe reducers are supplied with an undercut and EPDM O-ring to maintain the IP integrity of the installation.

Raxton reducers are marked with the applicable approval number and size.

Type BB Hex

Type BJ Round

Metallic reducers - certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, or II G, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC, Ex e I/IIC, Ex tb IIIC Db
CSA: Ex d IIC Class I, Zone 1, AEx d IIC (brass and stainless only)
GOST: ExdeI/IICU, ExdeIICU, ExeIIU
INMETRO: Ex de I/IIC Mb/Gb, Ex tb IIIC Db IP66/67
NEPSI: Ex d II C Gb, Ex e II C Gb, DIP A21 Ta IP6X

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-1, EN60079-7, 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
CSA: CAN/CSA-E79-0, CAN/CSA-E79-1, IEC60079-0, IEC 60079-1
NEPSI: GB 3836.1, GB 3836.2, GB 3836.3, GB 12476.1

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
IECEx: IECEx SIR 07.0010X, IECEx SIR 12.0014X, IECEx ITS16.0011X
CSA: CSA 200455-1003277 (brass and stainless only)
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X
NEPSI: GYJ13.1314X

Nylon reducers - certifications and compliances

Code of protection categories

ATEX: II 2 GD, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex e IIC Gb, Ex tb IIIC Db
GOST: ExeIIU
INMETRO: Ex e IIC Gb, Ex tb IIIC Db IP66/67
NB: M16 has ATEX approval only

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-7, EN60079-31
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 60079-31

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
Sira 00ATEX1073U (M16 nylon only)
IECEx: IECEx SIR 07.0010X, IECEx SIR 12.0014X, IECEx ITS16.0011X
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Temperature

The item is classified as a component and therefore metallic products are not given an operating temperature range. Nylon temperature range: -20°C to +65°C.
GF nylon is UL rated @ V.O. @ 3.0mm.

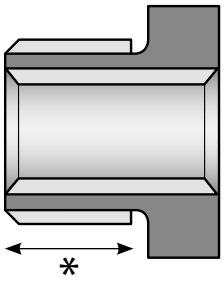
Ingress protection (IP):

Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

Product dimensions

Thread	Type BB metallic male thread max. bore (mm)	Type BJ nylon male thread max. bore (mm)
M16	20.8	22.0
M20	23.4	25.0
M25	27.9	30.0
M32	37.6	38.0
M40	47.2	46.0
M50	56.4	56.0
M63	70.1	70.0
M75	80.0	81.0
M90 x 2.0	105.0	96.0

Other sizes / theads are available upon request.



* Minimum 6 full threads parallel, 5 full threads taper (Exd)

PRODUCT CODING EXAMPLE	Reducer	Stainless steel	M32 (M)	M25 (F)	Exd / Exe	PART NUMBER
	BB	**E**	**14**	**13**	**Y**	**= BBE1413Y**

For full product coding details, consult page 29.

Insulated adaptors

Technical specification

Insulated adaptors provide a means to isolate the earth of the supply cable from the load equipment thus reducing the risk of damage to electronic equipment, within the enclosure in the event of a short circuit to ground through the enclosure.

Certifications and compliances

Code of protection categories

ATEX: Ex d IIC
GOST: Ex d IICU

Compliance standards

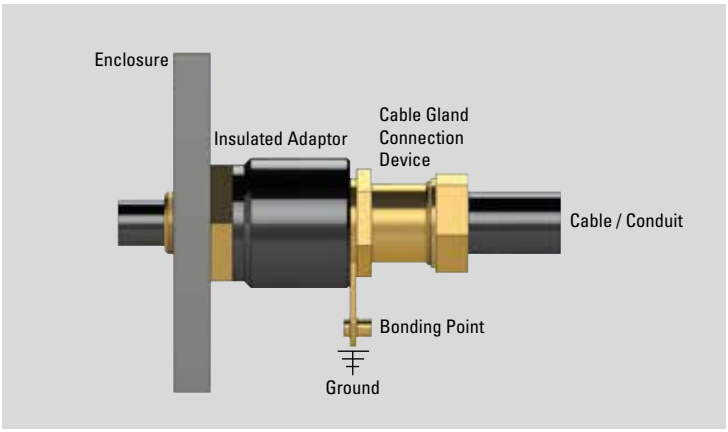
ATEX / GOST: EN 50014, EN50018, EN 50019, EN 5081-1-1

Certificate details

ATEX: Sira 00ATEX1073U
GOST: TC RUC-G B.ГБ06.B.00105

Temperature

The item is classified as a component and is therefore not given a temperature rating. Nylon temperature range: -20°C to +130°C.
GF nylon is UL rated @ H.B. @ 1.5mm.

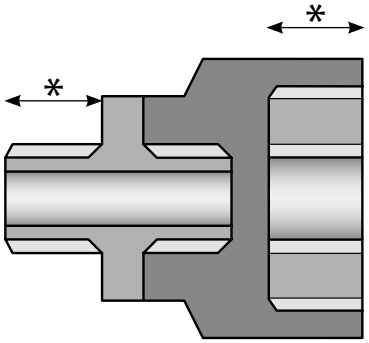



Type DB

Product dimensions

Thread	Protusion (mm)	Bore (mm)	Diameter (mm)
M16	45.0	11.0	30.0
M20	45.0	14.3	42.0
M25	45.0	20.5	47.0
M32	45.0	26.8	54.0
M40	45.0	33.5	62.0
M50	45.0	44.0	77.0
M63	45.0	55.2	87.0
M75	45.0	66.7	102.0

Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	Ins. adaptor	Brass	M32 (M)	M32 (F)	Exd	PART NUMBER
	DB	**A**	**14**	**14**	**D**	**= DBA1414D**

For full product coding details, consult page 29.

Male to male / female to female adaptors

Technical specification

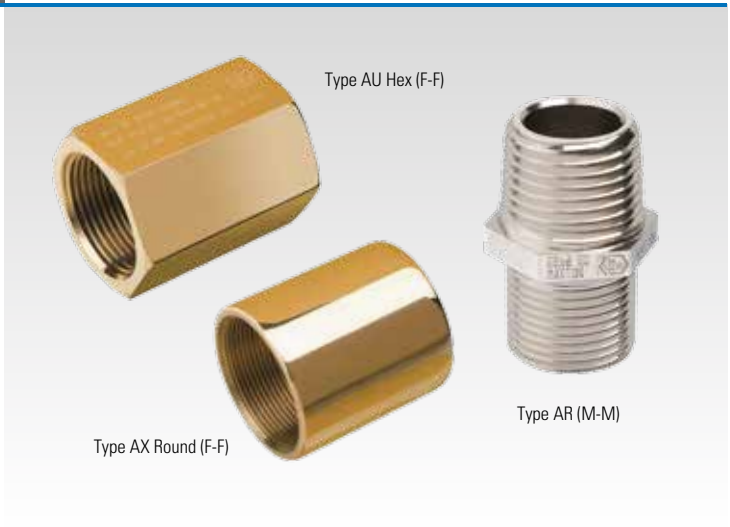
Male to male (type AR) adaptors provide a connection between two female threads of the same or dissimilar thread forms.

Female to female (type AU) adaptors provide a connection between two male threads of the same or dissimilar thread forms. Female to female adaptors are also available as round shaped products (type AX) for areas where space is a premium.

In each case, thread combinations can reduce by one size of the same thread form or to the equivalent of another form:

e.g. M25 x M20 or M25 x 1/2"NPT

Both male to male and female to female adaptors are marked with the appropriate approval number and size.



Certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb Ex e I/IIC Mb/Gb, Ex tb IIIC Db
GOST: ExdIICU
INMETRO: Ex d IIC Gb, Ex tb IIIC IP66/67

Compliance standards

ATEX / GOST: 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, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
IECEx: IECEx SIR 12.0014X, IECEx ITS16.0011X
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

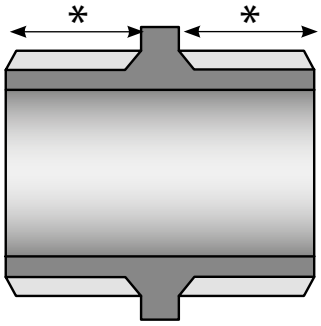
Temperature

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

Product dimensions

Thread	Male to male adaptor (type AR)			Female to female adaptor (type AU/AX)	
	Length (mm)	A/F (mm)	Bore (mm)	Length (mm)	Diameter/ A/F (mm)
M16	37.0	23.37	11.00	38.00	19.05
M20	37.5	23.37	14.00	38.00	24.00
M25	37.5	30.48	18.00	38.00	30.48
M32	37.5	37.59	24.00	38.00	37.59
M40	37.5	47.24	32.00	39.00	47.24
M50	38.0	55.88	41.00	39.00	55.88
M63	38.0	70.10	53.00	39.00	70.00
M75	38.5	80.01	64.00	39.00	90.00

Other sizes / theads are available upon request.



* Minimum 6 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	M-M adaptor	Brass	M20 (M)	M20 (F)	Exd / Exe	PART NUMBER
	AR	A	12	12	Y	= ARA1212Y

For full product coding details, consult page 29.

Right angle adaptors

Technical specification

Right angle adaptors provide a means of connection where protrusion space is limited, while simultaneously if necessary, converting the entry thread to that of a different type or reducing size and/or gender of the female thread.

Right angle adaptors are availble in male to female (type FG), male to male (type FK) and female to female (type FN) versions.

Raxton adaptors are marked with the applicable approval number and size.

Type FG (M-F)
Option A

Type FG (M-F)
Option B
(available in M20 & M25)

Certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db
GOST: ExdIICU
INMETRO: Ex d IIC Gb, Ex tb IIIC IP66/67

Compliance standards

ATEX / GOST: EN 60079-0, EN60079-1, 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, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1228U, ITS16ATEX101337U
IECEx: IECEx SIR 09.0086U, IECEx ITS16.0010U
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Temperature

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

Ingress protection (IP):

Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

Product dimensions - option A

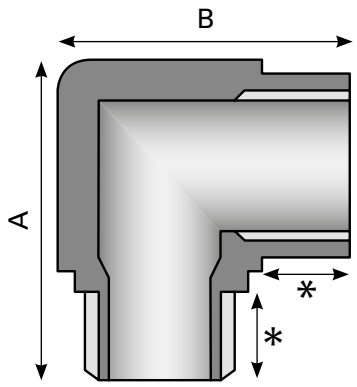
Thread	Height (A) (mm)	Width (B) (mm)	Male bore size (mm)	Female bore size (mm)	Option available
M16	45.0	40.0	9.0	14.0	A
M20	51.0	45.0	15.0	18.0	A or B*
M25	57.0	50.0	20.8	23.0	A or B*
M32	66.0	57.0	26.8	30.0	A
M40	75.0	65.0	33.5	38.0	A
M50	86.0	75.0	48.0	44.0	A
M63	101.5	90.0	61.0	55.0	A
M75	119.0	105.0	73.0	66.5	A

Other sizes / theads are available upon request.

Product dimensions - option B

Thread	Height (A) (mm)	Width (B) (mm)	Male bore size (mm)	Female bore size (mm)
M20	56.0	46.0	12.0	14.0
M25	62.0	51.0	17.0	18.0

* Option B available in brass only.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	R.A. M-F	Brass	M20 (M)	M20 (F)	Exd / Exe	PART NUMBER
	FG	A	12	12	Y	= FGA1212Y

For full product coding details, consult page 29.

Swivel adaptors

Technical specification

The 90° swivel adaptor (types FP, FQ, FR) has been designed to allow a full 360° choice of cable entry/exit positions. This enables the installer to run the cable in any direction which greatly improves ease of installation in confined or difficult situations. The cable entry/exit can be aligned without the over or under torque compromise imposed by the direction of the cable. The in-line type (types FA, FC, FD) allows independent connection at both ends.

Certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, (not aluminium) or IIGd Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db

IECEx: Ex d Ex e IIC Gb, Ex d Ex e IM (not aluminium), Ex tb IIIC Db, IP 6X

INMETRO: Ex d IIC Gb, Ex e IIC Gb, Ex d I Mb, Ex e Mb, Ex tb IIIC Db IP6X

Compliance standards

ATEX: EN 60079-0, EN60079-1, 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, IEC 60079-31

Certificate details

ATEX: Sira 10ATEX1056U, ITS16ATEX101337U

IECEx: IECEx SIR 10.0025U, IECEx ITS16.0010U

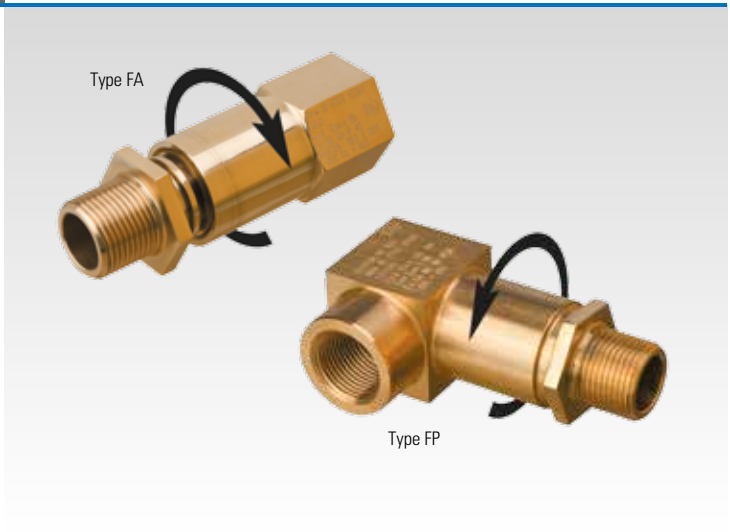
INMETRO: NCC 12.0764X

Temperature

Temperature range: -20°C to +60°C Exd, -50°C to +200°C Exe

Ingress protection (IP):

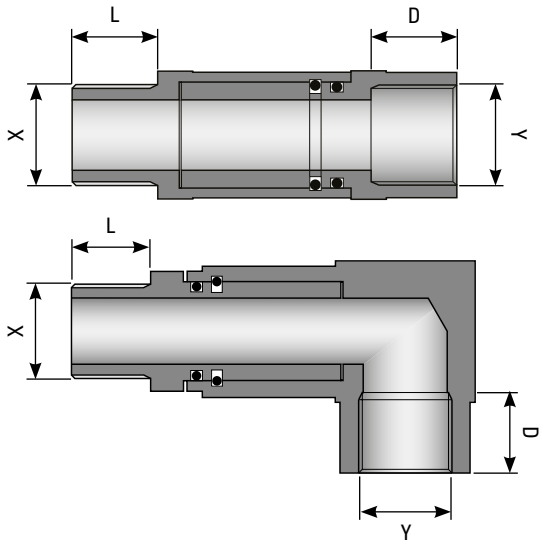
Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.



Product dimensions

Thread X	Thread Y	Length (L) (mm)	Depth (D) (mm)	Minimum wall (mm)
M20	**M20**	17.0	17.0	2.75
M25	**M25-M20**	17.0	17.0	2.75
M32	**M32-M20**	17.0	17.0	3.00
M40	**M40-M20**	17.0	17.0	3.00
M50	**M50-M20**	17.0	17.0	3.00
M63	**M63-M20**	17.0	17.0	3.25
M75	**M75-M20**	17.0	17.0	3.25

Other sizes / theads are available upon request.



PRODUCT CODING EXAMPLE	Swivel adaptor	Brass	1"NPT (M)	M32 (F)	Exd / Exe	PART NUMBER
	FA	**A**	**44**	**14**	**Y**	**= FAA4414Y**

For full product coding details, consult page 29.

'T' adaptors

Technical specification

IECEx

'T' (type ATU) adaptors provide an opportunity for two cable entries using one equipment entry where pre-machine holes are limited, whilst maintaining Exd/Exe certifications. The 'T' adaptor may also be used to change threadform or to different sizes.

Certifications and compliances

Code of protection categories

ATEX: I M2 (not aluminium), Ex d IMb, Ex e I Mb or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP6X

IECEx: Ex d I Mb, Ex e I Mb (not aluminium), Ex d IIC Gb Ex e IIC Gb, Ex tb IIIC Db IP6X

Compliance standards

ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN60079-31

IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1056U, ITS16ATEX101340U

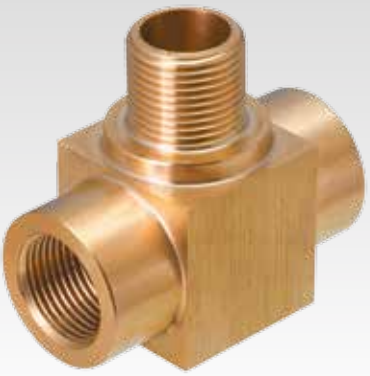
IECEx: IECEx SIR 10.0025U, IECEX ITS16.0015U

Temperature

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

Ingress protection (IP):

Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

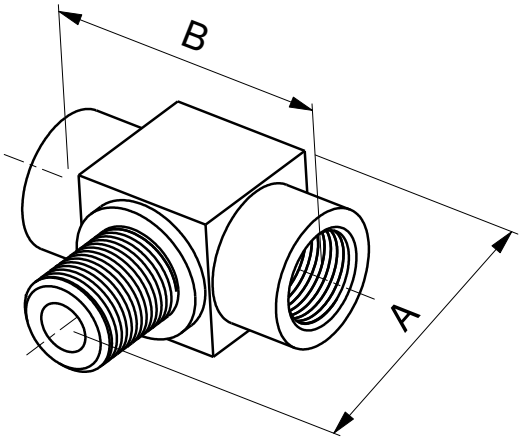


Type ATU

Product dimensions

Male thread	Female thread range	Overall height (male entry to base of product) (A) (mm)	Overall width (female entry to female entry) (B) (mm)
M16	**M16 to M20**	49.0	60.0
M20	**M16 to M25**	55.0	65.0
M25	**M16 to M32**	64.0	72.0
M32	**M16 to M40**	73.0	80.0
M40	**M16 to M50**	84.0	90.0
M50	**M16 to M63**	99.5	105.0
M63	**M16 to M75**	117.0	120.0
M75	**M16 to M75**	117.0	120.0

Other sizes / theads are available upon request.



Product codes - please note the different coding method for these products

Digit 1 & 2		Digit 3		Digit 4		Digit 5		Digit 6 & 7 male		Digit 8 & 9 female	
Description ('T' adaptors)	**Code**	**Approval**	**Code**	**Material**	**Code**	**Plating**	**Code**	**Thread reference**			
'T' adaptor M-F/F	AT	ATEX / IECEx Exde (All applicable approvals)	U	Brass	1	None	0	M16	03	½" NPT	29
				Mild steel	2	Nickel	1	M20	04	¾" NPT	30
				Stainless steel	3	Zinc	2	M25	05	1" NPT	31
				Aluminium	5			M32	06	1¼" NPT	32
								M40	07	1½" NPT	33
								M50	08	2" NPT	34
								M63	09	2½" NPT	35
		Industrial	F					M75	10	3" NPT	36

Other sizes / theads are available upon request.

PRODUCT CODING EXAMPLE	'T' M-F adaptor	Exd / Exe	Brass	Nickel plating	M25 (M)	M20 (F)	PART NUMBER
	AT	**U**	**1**	**1**	**05**	**04**	**= ATU110504**

'Y' adaptors

Technical specification

IECEx

'Y' (type AYU) adaptors provide an opportunity for two cable entries using one equipment entry where pre-machine holes are limited, whilst maintaining Exd/Exe certifications. The 'Y' adaptor may also be used to change threadform or to different sizes. The standard angle is 120° between entries, other angles are also possible.

Certifications and compliances

Code of protection categories

ATEX: I M2 (not aluminium), Ex d IMb, Ex e I Mb or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP6X

IECEx: Ex d I Mb, Ex e I Mb (not aluminium), Ex d IIC Gb Ex e IIC Gb, Ex tb IIIC Db IP6X

Compliance standards

ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN60079-31

IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1056U, ITS16ATEX101340U

IECEx: IECEx SIR 10.0025U, IECEX ITS16.0015U

Temperature

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

Ingress protection (IP):

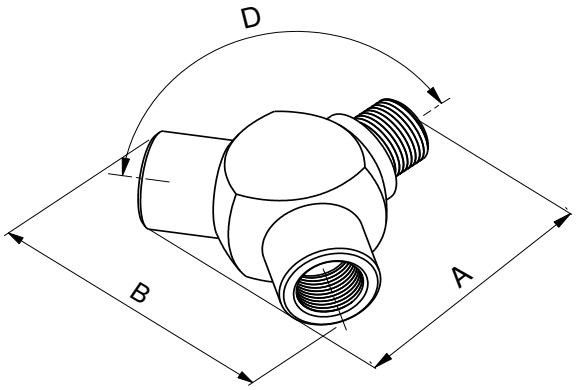
Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

Type AYU

Product dimensions

Male thread	Female threads	Overall height (male entry to base of product) (A) (mm)	Overall width (female entry to female entry) (B)(mm)	Angle between entries (D)
M20	**M20**	65.0	75.0	120°
M25	**M25**	67.0	78.0	120°
M32	**M32**	70.0	81.0	120°
M40	**M40**	89.0	102.0	120°
M50	**M50**	104.0	120.0	120°
M63	**M63**	131.0	151.0	120°
M75	**M75**	153.0	177.0	120°

Other sizes / theads are available upon request.



Product codes - please note the different coding method for these products

Digit 1 & 2	Code	Digit 3	Code	Digit 4	Code	Digit 5	Code	Digit 6 & 7 male		Digit 8 & 9 female	
Description ('Y' adaptors)		Approval		Material		Plating		Thread reference			
'Y' adaptor M-F/F	AY	ATEX / IECEx Exde (All applicable approvals)	U	Brass	1	None	0	M16	03	½" NPT	29
				Mild steel	2	Nickel	1	M20	04	¾" NPT	30
				Stainless steel	3	Zinc	2	M25	05	1" NPT	31
				Aluminium	5			M32	06	1¼" NPT	32
								M40	07	1½" NPT	33
								M50	08	2" NPT	34
								M63	09	2½" NPT	35
		Industrial	F					M75	10	3" NPT	36

Other sizes / theads are available upon request.

PRODUCT CODING EXAMPLE	'Y' M-F adaptor	Exd / Exe	Brass	Nickel plating	M25 (M)	M20 (F)	PART NUMBER
	AY	U	1	1	05	04	= AYU110504

Earth lead adaptors and threaded earth plates

Technical specification

Type DG earth lead adaptors

Earth lead adaptors (type DG) allow for earth continuity to be maintained by providing an earth lead which can be terminated inside the enclosure. Earth lead adaptors have an undercut and EPDM O-ring to maintain IP integrity.

Type DG earth lead adaptors - certifications and compliances

Code of protection categories

ATEX: I M2, Ex e I Mb or II G D, Ex e IIC Gb, ExIIIC tb Db
IECEx: Ex e I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex IIIC tb Db
GOST: ExeIIU
INMETRO: Ex e IIC Gb, Ex tb IIIC IP66/67

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-7, EN 60079-31
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
IECEx: IECEx SIR 12.0014X, IECEx ITS16.0011X
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Temperature

The item is classified as a component and is therefore not given a temperature rating. The O-ring has an operating temperature of -30°C to +150°C.

Type DK threaded earth plates

Threaded earth plates (type DK) are designed to ensure earth continuity when terminating brass glands into non-metallic enclosures. The additional use of a locknut is recommended to ensure pressure is maintained with the wall enclosure.

Type DK threaded earth plates - certifications and compliances

Code of protection categories

ATEX: II 2GD, Ex e II

Compliance standards

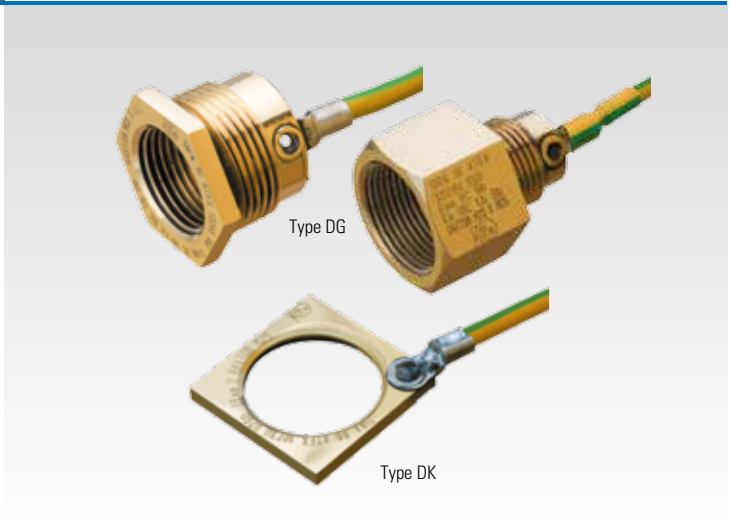
ATEX EN 50014, EN50018, EN 50019, EN50281-1-1

Certificate details

ATEX: Sira 00ATEX1073U

Temperature

The item is classified as a component and is therefore not given a temperature rating.



Product dimensions - earth lead adaptors

Earth lead adaptor	Length (mm)	Earth lead x 300mm (mm²)
M16	38.0	2.5
M20	38.0	2.5
M25	38.0	4.0
M32	38.0	6.0
M40	39.0	10.0
M50	39.0	16.0
M63	39.0	25.0
M75	39.0	25.0

Other sizes / theads are available upon request.

Product dimensions - threaded earth plates

Threaded earth plate	Length (mm)	Earth lead x 300mm (mm²)
M16	22.0	2.5
M20	30.0	2.5
M25	32.0	4.0
M32	38.0	6.0
M40*	50.8	10.0
M50*	63.5	16.0
M63*	76.0	25.0
M75*	102.0	25.0

*M40 and above are industrial only

Other sizes / theads are available upon request.

PRODUCT CODING EXAMPLE	Adaptor	Brass	M20 (M)	M20 (F)	Exe	PART NUMBER
	DG	A	12	12	E	= DGA1212E

For full product coding details, consult page 29.

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.

Certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db,
CSA: Ex d IIC Class I, Zone 1, AEx d IIC (brass and stainless only)
GOST: Exdel/IICU, ExdeIICU, ExeIIU
INMETRO: Ex de I/IIC Mb/Gb, Ex tb IIIC IP66/67 (brass and stainless) Ex de IIC Gb, Ex tb IIIC IP66/67 (aluminium)
NEPSI: Ex d II C Gb, Ex e II C Gb, DIP A21 Ta IP6X

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
CSA: CAN/CSA-E79-0, CAN/CSA-E79-1, UL 2279, IEC 60079-0, IEC 60079-1
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
NEPSI: GB 3836.1, GB 3836.2, GB 3836.3, GB 12476.1

Certificate details

ATEX: Sira 10ATEX1224X, ITS16ATEX101335X
IECEx: IECEx SIR 07.0009X, IECEx ITS16.0012X
CSA: CSA 200455-1003277
GOST: ТС RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X
NEPSI: GYJ13.1311X

Temperature

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

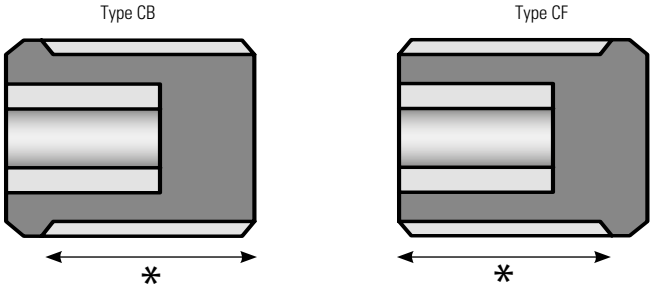
Ingress protection (IP):

Tested to IP66 / IP68.

Product dimensions - type CB / CF stopping plugs

Thread	Allen/hex key aperture A/F (mm)	Overall length (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

Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper.(Exd)

PRODUCT CODING EXAMPLE	Type CB plug	Brass	M25 (M)	-	Exd / Exe	PART NUMBER
	CB	A	13	00	Y	= CBA1300Y

For full product coding details, consult page 29.

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.

Certifications and compliances

Code of protection categories

ATEX: I M2 (not Type CY), Ex d IMb, Ex e I Mb, or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db, (Group I not for Type CY)
CSA: (not CY) Ex d IIC Class I, Zone 1, AEx d IIC (brass and stainless only) (not NPT threads)
GOST: ExdeI/IICU, ExdeIICU, ExeIIU
INMETRO: Ex de I/IIC Mb/Gb, Ex tb IIIC IP66/67 (brass and stainless)
(not CY) Ex de IIC Gb, Ex tb IIIC IP66/67 (aluminium)
NEPSI: Ex d II C Gb, Ex e II C Gb, DIP A21 Ta IP6X

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
CSA: CAN/CSA-E79-0, CAN/CSA-E79-1, UL 2279, IEC 60079-0, IEC 60079-1 (not NPT threads for CY)
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
NEPSI: GB 3836.1, GB 3836.2, GB 3836.3, GB 12476.1

Certificate details

ATEX: Sira 10ATEX1224X, ITS16ATEX101335X
IECEx: IECEx SIR 07.0009X, IECEx ITS16.0012X
CSA: CSA 200455-1003277
GOST: TC RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X
NEPSI: GYJ13.1311X

Temperature

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

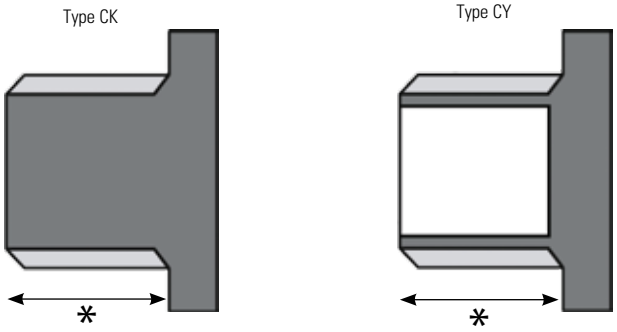
Ingress protection (IP):

Tested to IP66 / IP68.

Product dimensions - type CK / CY stopping plugs

Thread	Hex head A/F (mm)	Overall length (mm)
M16	19.0	19.0
M20	24.0	19.0
M25	27.9	19.0
M32	37.6	19.0
M40	47.2	19.5
M50	55.9	20.5
M63	70.0	22.0
M75	80.0	23.0

Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper.(Exd)

PRODUCT CODING EXAMPLE	Hex head plug	Brass	M25 (M)	-	Exd / Exe	PART NUMBER
	CK	A	13	00	Y	= CKA1300Y

For full product coding details, consult page 29.

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 plugs (metallic) - certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb, or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db
CSA: Ex d IIC Class 1, Zone 1, AEx d IIC
GOST: ExdeI/IICU, ExdeIICU, ExeIIU
INMETRO: Ex de I/IIC Mb/Gb, Ex tb IIIC IP66/67 (brass and stainless)
Ex de IIC Gb, Ex tb IIIC IP66/67 (aluminium)
NEPSI: Ex d II C Gb, Ex e II C Gb, DIP A21 Ta IP6X

Compliance standards

ATEX / GOST: 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
NEPSI: GB 3836.1, GB 3836.2, GB 3836.3, GB 12476.1
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7
CSA: AN/CSA-E79-0, CAN/CSA-E79-1, UL 2279, IEC 60079-0, IEC60079-1

Certificate details

ATEX: Sira 10ATEX1224X, ITS16ATEX101335X
IECEx: IECEx SIR 07.0009X, IECEx ITS16.0012X
CSA: CSA 200455-1003277
NEPSI: GYJ13.1311X
GOST: ТС RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Type CQ plugs (nylon) - certifications and compliances

Code of protection categories

ATEX: II 2 GD, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex e IIC Gb, Ex tb IIIC Db
GOST: ExeIIU (not type CS)
INMETRO: Ex e IIC Gb, Ex tb IIIC IP66/67
NB: M16 has ATEX approval only

Compliance standards

ATEX / GOST: EN 60079-0, EN 60079-7, EN 60079-31
INMETRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-7, ABNT NBR IEC 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 60079-31

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101335X, Sira 00ATEX1073U (M16 nylon only)
IECEx: IECEx SIR 12.0014X, IECEx ITS16.0012X
GOST: ТС RUC-G B.ГБ06.B.00105
INMETRO: NCC 12.0764X

Product dimensions

Thread	Dome head Allen/hex key aperture (mm)	Dome head diameter (mm)
M16	6.0	20.5
M20	10.0	25.0
M25	10.0	30.0
M32	10.0	38.0
M40	19.0	46.0
M50	19.0	56.0
M63	19.0	69.0
M75	19.0	81.0

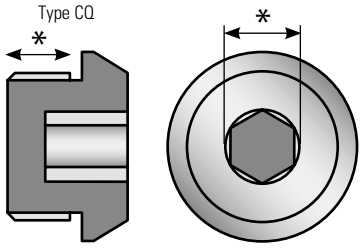
Other sizes / theads are available upon request.

Temperature

The item is classified as a component and therefore metallic products are not given an operating temperature range.
Nylon temperature range: -20°C to +65°C; O-ring -30°C to +125°C.

Ingress protection (IP):

Tested to IP68.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	Dome head plug	Brass	M25 (M)	-	Exd / Exe	PART NUMBER
	CQ	A	13	00	Y	= CQA1300Y

For full product coding details, consult page 29.

Breather drains

Technical specification

The Exd /Exe (type CT) and the Exe (type CV) breather drain plugs effectively drain moisture from an enclosure and allow air from the enclosure to vent into the surrounding atmosphere, thereby minimising moisture build up.

Type CT (Exd/Exe) - Certifications and compliances

Code of protection categories

ATEX: II 2 GD, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db, IP 6X

Compliance standards

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

Certificate details

ATEX: ITS 13ATEX17782X
IECEx: IECEx ITS 13.0018X
GOST: POCC GB.ГБ06.B01060
INMETRO: NCC 12.0927X

Temperature

Type CT (Exd/Exe) breather drain plug: -50°C to +150°C.

Ingress protection (IP):

Tested to IP66.

Type CV (Exe) - Certifications and compliances

Code of protection categories

ATEX: I M2, Ex e I Mb or II GD, Ex e IIC Gb, Ex tb IIIC Db
Nylon: - II 2 GD, Ex e II only.
IECEx: Ex e IIC Mb/Gb, Ex IIIC tb Db (metallic only)
GOST: ExdeIICU, ExeIIU, Nylon - ExeIIU only
INMETRO: BR-Ex e I/IIC Gb, BR-Ex tD A21, IP 66

Compliance standards

ATEX / INMETRO / GOST: EN 60079-0, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 61241-1 (metallic only)

Certificate details

ATEX: Sira 10ATEX3279X, ITS16ATEX101338X
IECEx: IECEx SIR 09.0096X, IECEx ITS16.0014X
GOST: POCC GB.ГБ06.B01060
INMETRO: NCC 12.0926X

Temperature

Type CV (Exe) breather drain plug is classified as a component and therefore metallic products are not given an operating temperature.
Nylon temperature range: -20°C to +65°C; O-ring -30°C to +150°C.

Ingress protection (IP):

Tested to IP66.

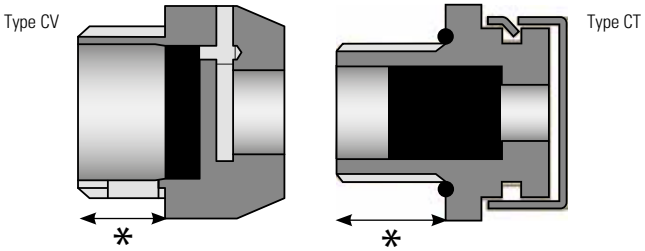
Product dimensions - type CT (Exd/Exe)

Thread	Hex A/F (mm)	Thread length (mm)	OAL (mm)
M20	27.0	16.0	31.0
M25	31.8	16.0	31.0
1/2" NPT	27.0	20.0	35.0
3/4" NPT	27.9	20.0	35.0

Product dimensions - type CV (Exe)

Thread	Diameter (mm)	Allen key (mm)	Head protusion (mm)
M16	20.0	10.0	14.0
M20	25.4	10.0	14.0
M25	30.5	10.0	14.0
M32	38.0	10.0	14.0
1/2" NPT	25.4	10.0	14.0
3/4" NPT	30.5	10.0	14.0
1" NPT	38.0	10.0	14.0

Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)

PRODUCT CODING EXAMPLE	Breather drain	Brass	¾" NPT	-	Exd / Exe	PART NUMBER
	CT	A	43	00	Y	= CTA4300Y

For full product coding details, consult page 29.

Barrier stopper boxes for cable glands and rigid conduit

Technical specification

IECEx

The barrier stopper box is designed to seal conductors at the entry to the enclosure via conduit or to enable an existing compression gland to be converted to a barrier gland.

This is achieved by forming a barrier between the individual insulated conductors within the cable to prevent an explosion within the enclosure. The compound stopper box allows compound to be packed around individual insulated conductors. Assembly of the component compresses the packing material and distributes the compound evenly to effect a barrier at point of entry into the enclosure.

The barrier stopper box is available in male to female (type EG) and female to female versions (type EK). The product is supplied with compound in a pack, complete with making off instructions and gloves.

Certifications and compliances

Code of protection categories

ATEX: II 2 GD, Ex de IIC
IECEx: Ex d IIC Gb / Ex e IIC Gb
Ex tb IIIC Db IP6X -60°C ≤Ta ≤ 80°C

Compliance standards

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

Certificate details

ATEX: ITS 12ATEX17707X
IECEx: IECEx ITS 12.0079X

Temperature

Temperature range: -60°C to +80°C

Ingress protection (IP):

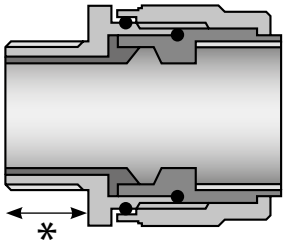
Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions.

Type EG

Product dimensions

Thread	Bore MN (mm)	Thread length (mm)	Overall length (mm)
M16	8.3	15.0	54.5
M20	11.3	15.0	56.8
M25	13.4	15.0	59.5
M32	17.7	15.0	64.3
M40	24.4	17.0	70.5
M50	31.8	17.0	67.8
M63	41.6	17.0	70.3

Other sizes / theads are available upon request.



Type EG

✻ Minimum 8 full threads parallel, 5 full threads taper. (Exd)

Barrier stopper box used with a rigid steel conduit.

Barrier stopper box used with a compression type cable gland to provide a barrier gland assembly.

PRODUCT CODING EXAMPLE	Stopper box M-F	Brass	M20 (M)	M20 (F)	Exd / Exe	PART NUMBER
	EG	A	12	12	Y	= EGA1212Y

For full product coding details, consult page 29.

Unions

Technical specification

Unions are designed to provide a running joint while eliminating exposed threads, and are particularly suitable for use where a coupler would be impractical.

Unions are available in a variety of threadforms and can be supplied with male to female (type FB) or female to female (type FL) thread entries. The female connection thread of the union shall step not more than one size up from the male connection thread, or equal to one size up in the case of a thread gender change: e.g. M20(M) to M25(F) or M20(M) to 3/4" NPT(F).

Certifications and compliances

Code of protection categories

ATEX: I M2, Ex d IMb, Ex e I Mb or II GD, Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d I/IIC Mb/Gb , Ex e I/IIC Mb/Gb, Ex tb, IIIC Db, IP6X
GOST: ExdIICU
INMETRO: BR-Ex d IIC Gb

Compliance standards

ATEX / INMETRO / GOST: EN 60079-0, EN60079-1, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-1

Certificate details

ATEX: Sira 10ATEX1225X, ITS16ATEX101336X
IECEx: IECEx SIR 12.0014X, IECEx ITS16.0011X
GOST: РОСС GB.ГБ06.B01060
INMETRO: NCC 12.0764X

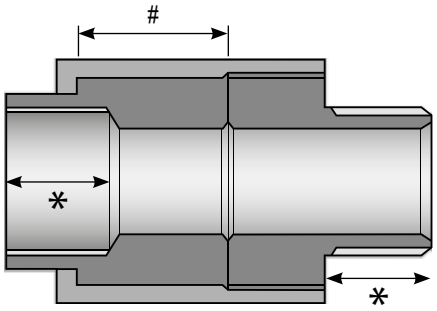
Temperature

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

Product dimensions

Thread	Protusion (mm)	Bore (mm)	Diameter (mm)
M16	45.0	11.0	30.0
M20	45.0	14.3	42.0
M25	45.0	20.5	47.0
M32	45.0	26.8	54.0
M40	45.0	33.5	62.0
M50	45.0	44.0	77.0
M63	45.0	55.2	87.0
M75	45.0	66.7	102.0

Other sizes / theads are available upon request.



* Minimum 8 full threads parallel, 5 full threads taper. (Exd)
# Flamepath in accordance with appropriate standards.

PRODUCT CODING EXAMPLE	Union (M-F)	Brass	M32 (M)	M32 (F)	Exd / Exe	PART NUMBER
	FB	**A**	**14**	**14**	**Y**	**= FBA1414Y**

For full product coding details, consult page 29.

Nipples / couplers / bushes

Technical specification

Screwed nippling

Supplied 30mm long as standard; alternative lengths can be supplied as required.
Available in a variety of thread forms. Materials include brass, mild steel, stainless steel, aluminium and nylon.

Metallic finishes can be plated to requirements.

Couplers

Available in round or hexagonal. Manufactured in brass as standard in a wide combination of thread forms and sizes.

Bushes

Male and female bushes are available in a variety of thread forms. Materials include brass, mild steel, stainless steel and aluminium, and may be plated to requirements.

PRODUCT CODING EXAMPLE	Male bush	Brass	M25 (M)	-	-	PART NUMBER
	JB	A	13	00		= JBA1300

For full product coding details, consult page 29.

Locknuts, washers and serrated washers

Technical specification

Locknuts & lockrings

Raxton offer a large variety of locknuts, lockrings and castellated locknuts which are often recommended for securing cable glands, thread adaptors or thread reducers to a gland plate or into equipment.

Locknuts are available in brass, mild steel, stainless steel, aluminium or nylon.

Product dimensions

Female thread	Thread coding	A/F dims (mm)	Female thread	Thread coding	A/F dims (mm)
M16	0011	19.0	¾" NPT	0043	33.0
M20	0012	24.0	1" NPT	0044	40.0
M25	0013	30.0	1¼" NPT	0045	50.0
M32	0014	36.0	1½" NPT	0046	55.9
M40	0015	46.0	2" NPT	0047	70.0
M50	0016	65.0	2½" NPT	0048	90.0
M63	0017	80.0	3" NPT	0049	105.0
M75	0018	95.0	3½" NPT	0086	120.0
M90 x 2.0	0019	110.0	4" NPT	0087	135.0

Other sizes / theads are available upon request. *Speak to Customer Services.

Washers / O-rings

To maintain the IP rating of the equipment, Raxton offer a wide variety of entry thread sealing washers and O-rings*. Materials include nylon, teflon, neoprene, fibre, silicone, fluorsilicone and rubber. In addition, Raxton can offer a non-setting universal jointing sealant.

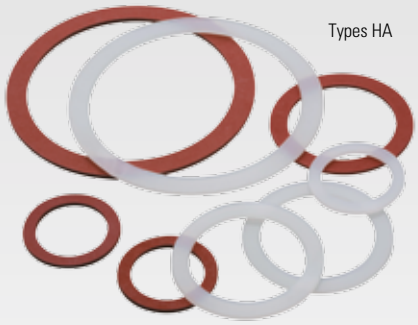
Serrated washers

Raxton serrated (shakeproof) washers are available in both mild steel zinc plated and stainless steel and prevent the risk of attachments becoming loose when used in conjunction with a locknut.

Temperature

For the operating temperature range of a specific material, please contact Customer Services.

Types GA



Types HA

Types GC

PRODUCT CODING EXAMPLE	Washer	Brass	(M)	M40 (F)	-	PART NUMBER
	HA	U	00	15		= HAU0015

For full product coding details, consult page 29.

Earthing locknuts and earth tags

Technical specification

Earthing locknuts

Raxton earthing locknuts offer an alternative to the standard earth tag when terminating a metallic cable gland into a thin wall steel enclosure. The earthing locknut design includes a number of cutting teeth formed on one surface of the nut. When tightened, these teeth cut into the enclosure wall, preventing the nut from turning and enabling the gland to be tightened to the nut from the outside with only one tool. This allows all connections of the gland to be made within the enclosure, away from the corrosive or flammable atmosphere and away from possible mechanical damage, and results in a neater appearance. The nut may also be fitted with the plain side facing the enclosure where this is preferred.

Product dimensions

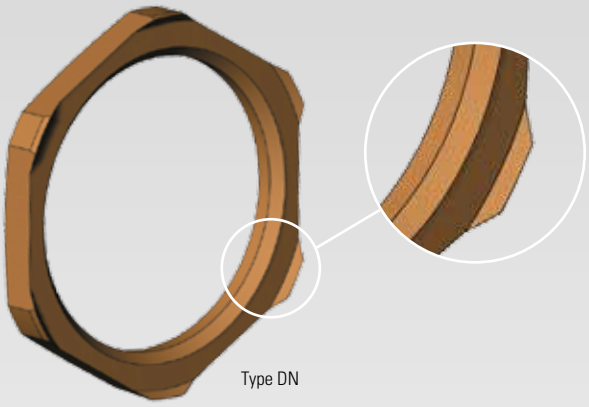
Female thread	Thread coding	A/F dims (mm)	Female thread	Thread coding	A/F dims (mm)
M12	0010	14.0	½" NPT	0042	30.0
M16	0011	18.0	¾" NPT	0043	36.0
M20	0012	23.0	1" NPT	0044	42.0
M25	0013	28.0	1¼" NPT	0045	50.0
M32	0014	36.0	1½" NPT	0046	55.0
M40	0015	44.0	2" NPT	0047	70.0
M50	0016	54.0	2½" NPT	0048	80.0
M63	0017	70.0	3" NPT	0049	98.0
M75	0018	92.0	3½" NPT	0086	115.0
M90 x 2.0	0019	108.0	4" NPT	0087	130.0

Other sizes / theads are available upon request.

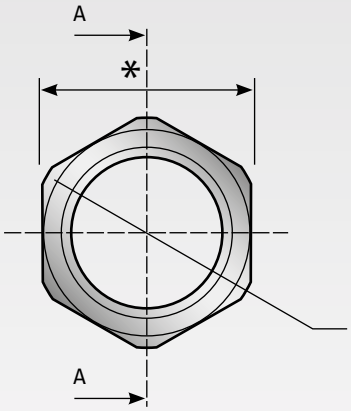
Earth tags

Raxton earth tags provide a means of connecting a flexible earth bond with the gland, thread adaptor or thread reducer in any required position while ensuring suitable earth continuity.

Available in brass, aluminium and stainless steel and supplied self-colour as standard, additional plating is available if required.



Type DN



Type DM

PRODUCT CODING EXAMPLE	Earth tag	Brass	(M)	M20 (F)	-	PART NUMBER
	DM	A	00	12		= DMA0012

For full product coding details, consult page 29.

Shrouds

Technical specification

Raxton offers a range of push on shrouds which are used to minimise the risk of dirt or foreign substances gathering on the cable gland body and/or point of cable to the gland interface.

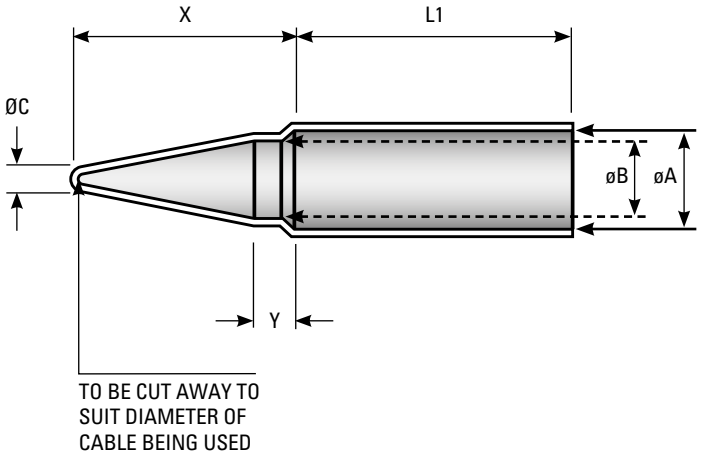
Supplied as standard in black PVC, they are suitable for all leading makes of glands.

Raxton also offer coloured PVC shrouds (blue, grey, red), and low smoke and fume (LSF) PVC shrouds (black, white, red, blue).

It should be noted that shrouds do not necessarily improve the ingress protection (IP) of the installed gland and may, in certain conditions retain unwanted moisture.

Temperature

The item is classified as a component and is therefore not given a temperature rating.



Product dimensions

Size	AØ (mm)	BØ (mm)	CØ (mm)	X (mm)	Y (mm)	L1 (mm)
5	19.9	16.5	2.5	48.0	9.0	57.0
5A	23.8	20.0	2.5	60.0	10.0	60.0
6	25.2	20.0	2.5	60.0	10.0	78.0
7	31.5	26.0	8.0	60.0	10.0	80.0
8	43.0	36.0	11.0	62.0	12.0	78.0
8B	38.8	32.0	11.0	62.0	12.0	80.0
9	49.5	40.0	15.0	62.0	12.0	83.0
10	57.8	48.0	20.0	72.0	14.0	91.0
11	67.2	60.0	25.0	84.0	14.0	105.0
12	75.6	68.0	31.0	88.0	13.0	90.0
12E	84.0	70.0	34.0	84.0	13.0	115.0
13	89.3	75.0	37.0	85.0	13.0	110.0

Other sizes are available upon request.

Product codes

Shroud number	PDM 100 black	PDM 100 blue	PDM 100 grey	PDM 100 red	PDM 100 LSF black	PDM 100 LSF white	PDM 100 LSF red	PDM 100 LSF blue
5	HCY 5	HCB 5	HCG 5	HCR 5	HCB LSF 5	HCW LSF 5	HCR LSF 5	HCL LSF 5
5A	HCY 5A	HCB 5A	HCG 5A	HCR 5A	HCB LSF 5A	HCW LSF 5A	HCR LSF 5A	HCL LSF 5A
6	HCY 6	HCB 6	HCG 6	HCR 6	HCB LSF 6	HCW LSF 6	HCR LSF 6	HCL LSF 6
7	HCY 7	HCB 7	HCG 7	HCR 7	HCB LSF 7	HCW LSF 7	HCR LSF 7	HCL LSF 7
8	HCY 8	HCB 8	HCG 8	HCR 8	HCB LSF 8	HCW LSF 8	HCR LSF 8	HCL LSF 8
8B	HCY 8B	HCB 8B	HCG 8B	HCR 8B	HCB LSF 8B	HCW LSF 8B	HCR LSF 8B	HCL LSF 8B
9	HCY 9	HCB 9	HCG 9	HCR 9	HCB LSF 9	HCW LSF 9	HCR LSF 9	HCL LSF 9
10	HCY 10	HCB 10	HCG 10	HCR 10	HCB LSF 10	HCW LSF 10	HCR LSF 10	HCL LSF 10
11	HCY 11	HCB 11	HCG 11	HCR 11	HCB LSF 11	HCW LSF 11	HCR LSF 11	HCL LSF 11
12	HCY 12	HCB 12	HCG 12	HCR 12	HCB LSF 12	HCW LSF 12	HCR LSF 12	HCL LSF 12
12E	HCY 12E	HCB 12E	HCG 12E	HCR 12E	HCB LSF 12E	HCW LSF 12E	HCR LSF 12E	HCL LSF 12E
13	HCY 13	HCB 13	HCG 13	HCR 13	HCB LSF 13	HCW LSF 13	HCR LSF 13	HCL LSF 13

Barrier fittings for flexible conduit

Technical specification

IECEx

The Raxton barrier stopper box for flexible conduit is designed to provide a flameproof connection for liquid tight and braided flexible conduit in hazardous area applications. This is achieved by forming a barrier between the individual insulated conductors of a cable inside the conduit that are to be terminated within an enclosure.

The barrier is formed by using a setting compound packed around individual insulated conductors. Assembly of the component compresses the packing material and distributes the compound evenly to effect a barrier at point of entry into the enclosure.

The barrier stopper box is supplied with compound in a pack, complete with making off instructions and gloves.

Certifications and compliances

Code of protection categories

ATEX: ATEX: II 2GD, Ex d IIC, Ex e IIC Gb, Ex tb IIIC Db
IECEx: Ex d/IIC, Ex e/IIC, Ex tb IIIC Db

Compliance standards

ATEX EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2008
IECEx: IEC 60079-0: 2004, IEC 60079-1: 2003, IEC 60079-7: 2006-07

Certificate details

ATEX: ITS 12ATEX17707X
IECEx: IECEx ITS12.0079X

Temperature

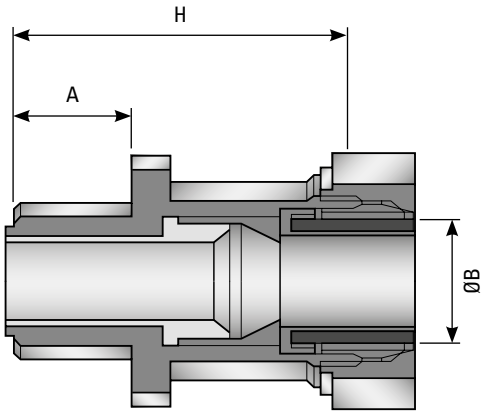
The item is classified as a component and is therefore not given a temperature rating.

NB: Type EF barrier fittings available in nickel-plated brass only.

Product dimensions

Stopper box size	Thread (A) min. (mm)	ØB nominal (mm)	Length (H) (mm)
M20	15.0	21.1	44.5
M25	15.0	26.4	46.0
M32	15.0	33.1	51.5
M40	15.0	41.8	52.5
M50	15.0	47.9	58.5
M63	15.0	59.7	61.5

Other sizes / theads are available upon request.



PRODUCT CODING EXAMPLE	Stopper box	Brass	M20 (M)	M20 (F)	Exd / Exe	Special (none)	Plating	PART NUMBER
	EF	A	12	12	Y	X	N	= EFA1212YXN

For full product coding details, consult page 29.

Flexible conduit and accessories

Technical specification

Raxton now offer a range of flexible conduit, all of which feature a high mechanical strength and are suitable for various applications.

Conduit type MXS

Description: Stainless steel (316), helically wound, flexible conduit with oil resistant and high temperature pvc smooth cover. ONLY AVAILABLE IN BLACK
Application: Food processing machinery or outdoor applications where high corrosion resistance and liquid tight are a requirement
Features: High mechanical strength and resistant to oils and greases UV resistant (black) and good flexibility Smooth wipe clean outer cover
Cover does not wrinkle when bent
IP rating: IP66 + IP67+ IP68 (5 bar)
Temp range: -20°C to +105°C

Conduit type MXB

Description: Galvanised steel, helically wound, flexible conduit with thermoplastic rubber cover and stainless steel (316) overbraid
Application: Very arduous industrial environments such as steel works
Features: High mechanical strength
High abrasion resistance and very high tensile strength
EMC Screening Performance
IP rating: IP66 + IP67+ IP68 (5 bar)
Temp range: -45°C to +135°C

Conduit support P clips type MYV

Description: Type MYV plated steel P clip with pvc liner
Application: P Clips to suppor t flexible conduit Types MXB, MXH and MXP

Conduit support P clips type MYT

Description: Type MYT stainless steel P clip
Application: P Clips to support flexible conduit Type MXB, MXH, MXP, MXR and MXS

Product dimensions - MXS

Nominal size	Outside diameter (mm)	Inside diameter (mm)	Inside bend radius (mm)
M10	11.8	7.0	35.0
M12	14.2	10.0	40.0
M16	17.8	12.6	45.0
M20	21.1	16.0	65.0
M25	26.4	21.0	100.0
M32	33.1	26.5	135.0
M40	41.8	35.4	175.0
M50	47.9	40.4	230.0
M63	59.7	51.6	280.0

Product dimensions - MXB

Nominal size	Outside diameter (mm)	Inside diameter (mm)	Inside bend radius (mm)
M16	19.3	12.6	45.0
M20	22.6	16.0	65.0
M25	27.9	21.0	100.0
M32	34.6	26.5	135.0

Product codes

Digit 1 & 2	Code	Digit 3	Code	Digit 4 & 5	Code	Digit 6	Code	Digit 7 & 8	Code
Description (Flexible conduit)		**Type**		**Size mm**		**Colour**		**Reel length**	
Flexible conduit	MX	Type MXS	S	M10	09	Black	B	10 metres	10
Support clip	MY	Type MXB	B	M12	10	Grey	G	25 metres	25
		PVC/steel clip	V	M16	11	Orange	O	50 metres	50
		tainless steel clip	T	M20	12				
				M25	13				
				M32	14				
		S		M40	15				
				M50	16				
				M63	17	Clips	Blank	Clips	Blank

PRODUCT CODING EXAMPLE	Conduit	Type MXS	M20	Black	10 metres	PART NUMBER
	MX	**S**	**12**	**B**	**10**	**= MXS12B10**

Flexible conduit and accessories

Technical specification

Raxton now offer a range of flexible conduit, all of which feature a high mechanical strength and are suitable for various applications.

Conduit type MXP

Description: Galvanised steel, helically wound, flexible conduit with smooth oil resistant and high temperature pvc cover
Application: Machine tools or outdoor installations where liquid tight is a requirement
Features: High mechanical strength and resistant to oils and greases
UV resistant (black) and good flexibility
Smooth wipe clean outer cover
IP rating: IP66 + IP67+ IP68 (5 bar)
Temp range: -20°C to +105°C
Approvals: Lloyd's Register Type Approval

Conduit type MXH

Description: Galvanised steel, helically wound, flexible conduit with smooth thermoplastic rubber cover. ONLY AVAILABLE IN BLACK
Application: Machine tools or outdoor installations where liquid tight together with a low or high temperature rating is a requirement
Features: High mechanical strength and resistant to oils and greases
UV resistant (black) and good flexibility
Smooth wipe clean outer cover
Cover does not wrinkle when bent
IP rating: IP66 + IP67+ IP68 (5 bar)
Temp range: -45°C to +135°C

Conduit type MXR

Description: Galvanised steel, helically wound, flexible conduit with galvanised steel braid and oil resistant and high temperature pvc smooth cover. ONLY AVAILABLE IN BLACK
Application: Machinery or outdoor installations where high corrosion resistance and liquid tight are a requirement combined with EMC screening.
Features: High mechanical strength and resistant to oils and greases
UV resistant (black) and good flexibility
Smooth wipe clean outer cover
Cover does not wrinkle when bent
IP rating: IP66 + IP67+ IP68 (5 bar)
Temp range: -20°C to +105°C

Product dimensions - MXP, MXH & MXR

Nominal size	Outside diameter (mm)	Inside diameter (mm)	Inside bend radius (mm)	Inside bend radius MXR only (mm)
M10	11.8	7.0	35.0	-
M12	14.2	10.0	40.0	-
M16	17.8	12.6	45.0	-
M20	21.1	16.0	65.0	65.0
M25	26.4	21.0	100.0	100.0
M32	33.1	26.5	135.0	120.0
M40	41.8	35.4	175.0	140.0
M50	47.9	40.4	230.0	180.0
M63	59.7	51.6	280.0	-

Product codes

Digit 1 & 2	Code	Digit 3	Code	Digit 4 & 5	Code	Digit 6	Code	Digit 7 & 8	Code
Description (Flexible conduit)		**Type**		**Size mm**		**Colour**		**Reel length**	
Flexible conduit	MX	Type MXP	P	M10	09	Black	B	10 metres	10
		Type MXH	H	M12	10	Grey	G	25 metres	25
		Type MXR	R	M16	11	Orange	O	50 metres	50
				M20	12				
				M25	13				
				M32	14				
				M40	15				
				M50	16				
				M63	17				

PRODUCT CODING EXAMPLE	Conduit	Type MXP	M20	Black	10 metres	PART NUMBER
	MX	**P**	**12**	**B**	**10**	**= MXP12B10**

Thread selection / dimensions

Isometric to BS 3643:1981

Size	Major diameter (mm)	Threads per inch	Pitch
16mm (M16)	15.968	16.93	1.50
20mm (M20)	19.968	16.93	1.50
25mm (M25)	24.968	16.93	1.50
32mm (M32)	31.968	16.93	1.50
40mm (M40)	39.968	16.93	1.50
50mm (M50)	49.968	16.93	1.50
63mm (M63)	62.968	16.93	1.50
75mm (M75)	74.968	16.93	1.50

National Pipe Thread to ANSI / ASME: 1983

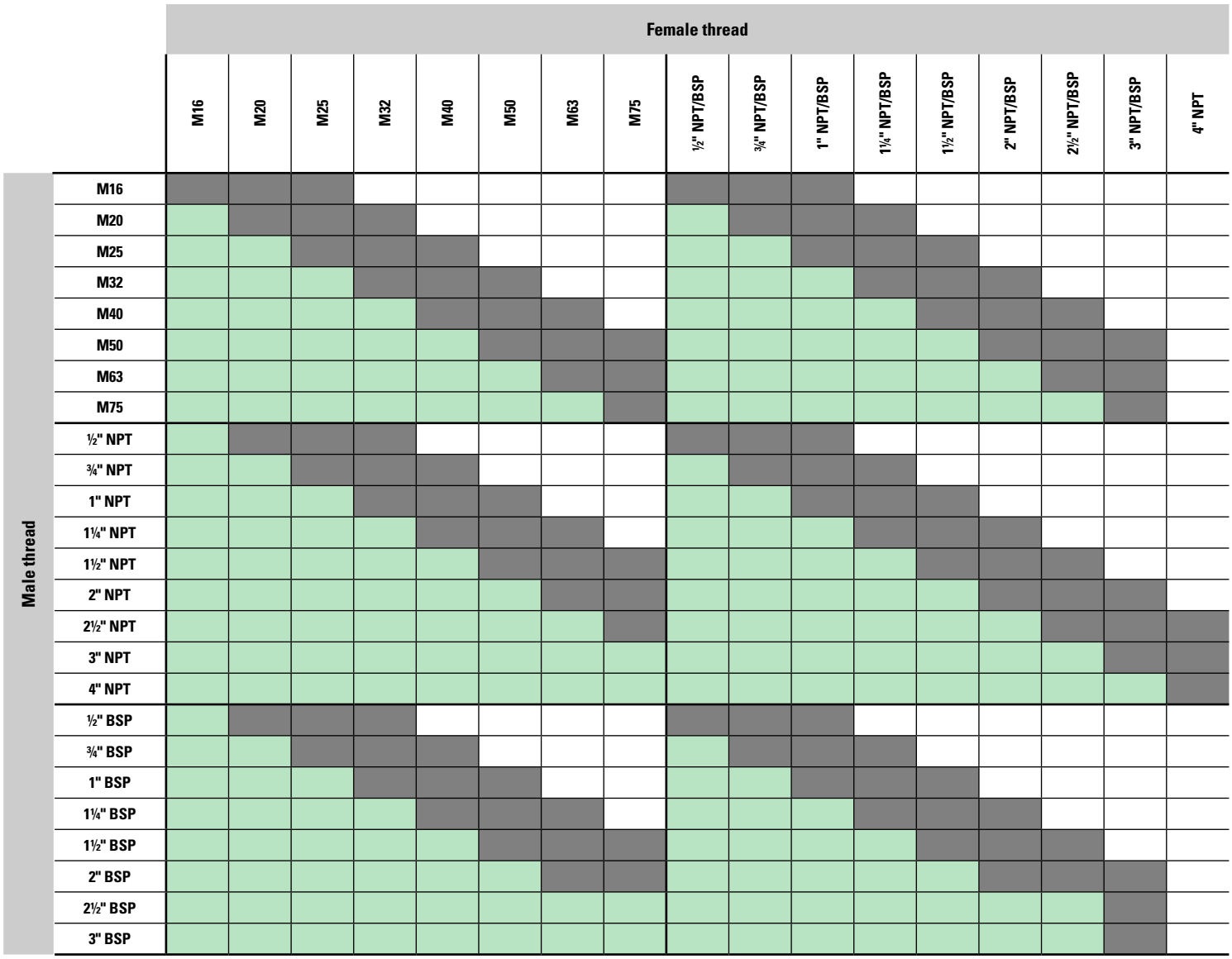
Size	Major diameter (mm)	Threads per inch	Pitch
⅛" NPT	10.28	27.00	0.94
¼" NPT	13.72	18.00	1.41
⅜" NPT	17.15	18.00	1.41
½" NPT	21.34	14.00	1.81
¾" NPT	26.67	14.00	1.81
1" NPT	33.40	11.50	2.21
1¼" NPT	42.16	11.50	2.21
1½" NPT	48.26	11.50	2.21
2" NPT	60.33	11.50	2.21
2½" NPT	73.03	8.00	3.18
3" NPT	88.90	8.00	3.18
4" NPT	114.30	8.00	3.18

British Standard Pipe to BS 21:1985

Size	Major diameter (mm)	Threads per inch	Pitch
⅛" BSP P	9.736	28.00	0.91
¼" BSP P	13.16	19.00	1.34
⅜" BSP P	16.66	19.00	1.34
½" BSP P	20.96	14.00	1.81
¾" BSP P	26.44	14.00	1.81
1" BSP P	33.25	11.00	2.31
1¼" BSP P	41.91	11.00	2.31
1½" BSP P	47.80	11.00	2.31
2" BSP P	59.81	11.00	2.31
2½" BSP P	75.18	11.00	2.31
3" BSP P	87.88	11.00	2.31
4" BSP P	113.03	11.00	2.31

Other sizes and theads are available including ET, PG, BSPT and NPSM, contact Customer Services for details.

Certified products - Raxton adaptors now available in 2 step format



Product coding

DIGIT 1 & 2

	Description	Code	Page
ADAPTORS AND RECUERS	M-F hex adaptors	AB	6
	M-F round adaptors	AJ	6
	M-F hex reducers	BB	7
	M-F round reducers	BJ	7
	Insulated M-F adaptors	DB	8
	M-M adaptors	AR	9
	F-F hex adaptors	AU	9
	F-F round adaptors	AX	9
	Right angle (90°) M-F adaptors	FG	10
	Right angle (90°) M-M adaptors	FK	10
	Right angle (90°) F-F adaptors	FN	10
	Inline swivel M-F adaptors	FA	11
	Inline swivel F-F adaptors	FC	11
	Inline swivel M-M adaptors	FD	11
	Right angle (90°) swivel M-F adaptors	FP	11
	Right angle (90°) swivel F-F adaptors	FQ	11
	Right angle (90°) swivel M-M adaptors	FR	11
	'T' adaptors**	see page 12	
	'Y' adaptors**	see page 13	
	Earth lead adaptors	DG	14
	Threaded earth plates	DK	14
STOPPING PLUGS	RX (external access) plugs	CB	15
	Tamperproof (internal access) plugs	CF	15
	Hex head plugs	CK	16
	Hollow hex head plugs	CY	16
	Dome head plugs	CQ	17
BREATHER DRAINS	Breather drain Exde plugs	CT	18
	Breather drain Exe plugs	CV	18
ACCESSORIES	Barrier stopper boxes (cable glands) M-F	EG	19
	Barrier stopper boxes (cable glands) F-F	EK	19
	Unions M-F	FB	20
	Unions F-F	FL	20
	Male bushes	JB	21
	Female bushes	JC	21
	Threaded nipples	JD	21
	Round couplers	JG	21
	Locknuts*	GA	22
	Lockrings*	GB	22
	Serrated washers*	GC	22
	Castellated locknuts*	GD	22
	Washers*	HA	22
	O-rings	speak to Customer Services	
	Earth tags*	DM	23
	Earthing locknuts*	DN	23
	Shrouds**	see page 24	
FLEXIBLE CONDUIT	Barrier fitting (flexible conduit)	EF	25
	Flexible conduit and accessories**	see pages 26/27	

***** No marking on product; use 'X' in coding for digit 8 where digits 9 and 10 are used.

** See product page for coding details.

THREAD REFERENCES

DIGIT 4 & 5 MALE THREAD						DIGIT 6 & 7 FEMALE THREAD			
ISOMETRIC		NPT		PG		BSP P		BSP T	
SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE	SIZE	CODE
M12	04	½" NPT	42	PG7	20	½" NPT	62	½" NPT	52
M16	11	¾" NPT	43	PG9	21	¾" NPT	63	¾" NPT	53
M20	12	1" NPT	44	PG11	22	1" NPT	64	1" NPT	54
M25	13	1¼" NPT	45	PG13.5	23	1¼" NPT	65	1¼" NPT	55
M32	14	1½" NPT	46	PG16	24	1½" NPT	66	1½" NPT	56
M40	15	2" NPT	47	PG21	25	2" NPT	67	2" NPT	57
M50	16	2½" NPT	48	PG29	26	2½" NPT	68	2½" NPT	58
M63	17	3"NPT	49	PG36	27	3"NPT	69	3"NPT	59
M75	18	3½" NPT	86	PG42	28	SPECIAL BSP P	60	SPECIAL BSP T	50
M80 x 2.0	80	4"NPT	87	PG48	29				
M90 x 2.0	81	5"NPT	88	Male thread is specified first (digits 4+5), female thread second (digits 6+7), with all digits used for M-M and F-F products. ET thread components and other sizes are available; please consult Customer Services for advice.					
M100 x 2.0	82	SPECIAL NPT	40						
SPECIAL ISO	10								

DIGIT 3	CODE
Material	
Brass	A
Aluminium	B
Mild steel	C
Stainless steel	E
Nylon black	G
Glass filled nylon	M
Red fibre	U
Teflon	P
EPDM	Q
Nylon white	R
Neoprene	T

Product coding notes

Male thread is specified first (digits 4-5); female thread is specified second (digits 6-7). Other threads, sizes, materials and plating are available, please consult the Customer Services department.

Digit 8 (no approval) is F, the product is stamped with brand and size. Where no marking is present, such as locknuts and washers, then 'X' is used (* on coding list).

Digit 9 (not customer specific) is blank if undercut (U) is not required and digit 10 for plating is also not required. If plating is required, but undercut is not, then X is used.

Digit 10 (plating) is blank if no plating is required - X will be used in the case of customer specials.

DIGIT 8	CODE
Approval	
ATEX / IECEx / INMETRO / CSA / GOST Exde (All applicable approvals)	Y
ATEX Exd	D
ATEX Exe	E
Mining Group 1	M
Industrial	F
Industrial (non marked products	X

DIGIT 9	CODE
Special	
None	X or blank
O-ring / undercut	U

DIGIT 10	CODE
Plating	
None	Blank
Nickel	N
Zinc	Z
Chromatised	C

	Product	Material	Male thread	Female thread	Approval	Special	Plating	Part number
PRODUCT CODING EXAMPLE	**Adaptor**	**Brass**	**½" NPT**	**M20**	**Ex d / Ex e**	**None**	**Nickel**	**= ABA4212YXN**
	AB	**A**	**42**	**12**	**Y**	**X**	**N**	

	Product	Material	Male thread	Female thread	Approval	Special	Plating	Part number
PRODUCT CODING EXAMPLE	**Breather drain**	**Stainless steel**	**M25**	**00**	**Ex e**	**Undercut**	**None**	**= CVE1300EUX-S001†**
	CV	**E**	**13**	**00**	**E**	**U**	**X**	

† Sxxx is the suffix for customer specials; each will be numbered individually.

Notes

Notes

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