CROUSE-HINDS Redapt certified accessories for hazardous areas

Solutions for hazardous area cable terminations













At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

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We make what matters work.



Global Termination Solutions

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 adaptors, reducers, plugs, drains and additional products are used to support hazardous area installations throughout the world, enhancing safety and productivity in the most severe environmental conditions.

Our thread conversion products are designed for strict adherence to global specifications, meeting international approvals including ATEX, IECEx and CSA certifications. Our products are also suitable for industries made hazardous by the presence of dust.

Eaton's Crouse-Hinds Division thread conversion products are the safest solution for your hazardous area installation. In oil and gas, mining or power generation installations, our products are the reliable and safe way to terminate cable and conduit installation.

Global Support & Manufacturing

Eaton's Crouse-Hinds Division manufactures in five 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 and 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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Non-certified accessories	

The product information published in our catalogues and literature is not guaranteed. It has been compiled with care and is sufficiently accurate for most purposes. It is subject to change without notice. Occasionally, it may be necessary to modify the materials, finishes or other components of the product. These changes will in no way reduce the performance or function for which the product is intended.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Eaton's Crouse-Hinds' Terms and Conditions of Sale, and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his/her intended use and assumes all risk and liability whatsoever in connection therewith.

All sales of Eaton's Crouse-Hinds products are specifically subject to the Terms and Conditions of Sale as shown in Eaton's Crouse-Hinds distributor price sheets.

When selecting Ex certified accessories for use in hazardous areas, it is important to ensure that the product selected not only performs the task required (i.e. adapting the thread), but also maintains the overall integrity of the equipment into which it will be fitted.

To help with the selection of Redapt products, we have prepared the following as a guide. However, when selecting equipment for use in hazardous areas, the appropriate national or international standards or codes of practice must be considered.

Product approvals (see page 8)

Redapt products are manufactured to comply with the relevant standards for which they are designed. This means Redapt products meet with the exacting standards found within hazardous area environments. To assist in ease of use, the Redapt range of adaptors, reducers, stopping plugs and breather drains are approved Exd I and IIC and Exe I and IIC and tested to IP66 and IP68.

Equipment certificates, Ex thread adaptors and Ex stopping plugs

Redapt adaptors and reducers with metric female threads (Ex adaptors) and full range of stopping plugs (Ex stopping plugs) and breather drains are certified as apparatus and granted equipment certificates. This means that they can be fitted into Ex apparatus enclosures without further certification.

Component certificates

Redapt adaptors and reducers with non-coaxial threads, 90 degree adaptors, 'Y' and 'T' (twin inlet) adaptors and 90 degree swivel adaptors are certified as components, and as such require further approval before they can be fitted to Ex apparatus enclosures. This applies to all products that have a 'U' at the end of the certificate number.

Worldwide compatibility

Keeping pace with the rapidly changing approvals and to ensure worldwide compatibility, Redapt has the following approvals: North American Ex approvals for both methods of hazardous location classification, Zones and Divisions in addition to our existing ATEX and IECEx approvals. Redapt can therefore offer adaptors and reducers Ex d and e I M2 and IIC Gb and/or Class I, Division 1, groups A, B, C, D, or Exe II, Class I, Division 2, etc.

Ingress protection (see page 9)

To ensure that the ingress protection of the equipment is maintained, the accessories need to satisfy the same level of protection as the equipment. The Redapt Exd I and IIC and Exe I and IIC range of adaptors, reducers, stopping plugs and breather drains are fitted with an integral O-ring seal and have been independently tested to IP66 and IP 68.

Material

To ensure the long-term integrity of the installation, care should be taken in selecting the product material; in particular, taking into account any corrosive atmosphere present and/or the potential for corrosion brought about by mating dissimilar metals. As standard we supply brass, which is suitable for most applications. In certain atmospheres, most notably ammonia, or to avoid bi-metallic corrosion and electrolytic action, it may be advisable to select an alternative material or request plated brass.

Thread fit, gauging and length

Parallel threads are gauged to a medium fit (6g, 6H) and are manufactured to provide a minimum of eight full threads, unless otherwise specified. Tapered threads are gauged and dimensioned to provide for five fully engaged threads, unless otherwise specified.

Part numbering system (see page 10)

When ordering or enquiring about adaptors and reducers, the male thread size should always be quoted first, followed by the female.

Dimensions

It is advisable to check the dimensions of the product to ensure that it can be installed into the equipment without fouling. Dimensions are given in the catalogue for regular metric size products; for other dimensions or information, please contact us. *Please note that dimensions are subject to change.*

Product marketing

To ensure clarity the relevant product information is marked on the product, and/or shown on the packaging and/or within the installation instructions.

European directives

Products approved within the ATEX directive will be shipped with detailed installation instructions. The CE mark is applied to the packaging and confirms that Redapt products meet with the essential health and safety requirements of the applicable European directives.

Redapt products are outside the scope of the Electromagnetic Compatibility Directive (EMC) as they are passive.

Product type

		IECEx	< <u>(</u> x3)	(£x	SP.	EHE Ex	CCOE	
		IECEx	ATEX Gas & Dust	ATEX Mining (M2 only)	North America	Russia	India	Brazil
Adaptors and reducers (metallic)	Ŵ	-						
Swivel adaptors		-						
Y′ adaptors T′ adaptors	🎺 🆑							
00 degree adaptors	1	-						
5 degree adaptors								
Male to male and emale to female (IECEx only) adaptors	\$ 1							
nsulated adaptors	5	-						
Cable gland stopper poxes		-						
Jnions								
Stopping plugs (metallic) check individual plugs for certification)	0	-						
Breather drains Exe		-						
Breather drains Exde	10							
arth lead adaptors								
hreaded earth plates	\checkmark							
lexible conduit topper boxes								



ATEX directive compliance

The ATEX directive (2014/34/UE) applies to equipment and protective systems intended for use in potentially explosive atmospheres within Europe. The directive outlines the conformity assessment procedures and product classification for Ex products.

Redapt complies with ATEX having had an EC type-examination carried out on our Ex product range and our production QA assessed and approved. This is in line with the requirements for Ex products for use in gas groups I and II.

North American approval



The Canadian Standards Association (CSA) develops standards, tests and certifies products for use in Canada and internationally. CSA international is recognised by the U.S. Occupational Safety and Health Administration (OSHA) under the Nationally Recognised Testing Laboratory (NRTL) scheme and are able to test and certify products for use in hazardous locations within the U.S.A. as well as Canada. Traditionally, Ex products used within North America have been designed and tested for compliance within the 'class and division system'.

Redapt products have been assessed and certified for use throughout North America in both the 'class and division system' and the 'zone system'.



IEC Ex approval

The International Electrotechnical Commission (IEC) has developed the IECEx international certification scheme in an attempt to harmonise national standards used throughout the world with the aim of producing an approval that is recognised globally. The IECEx scheme is based on the 3 zone concept of area classification.

Redapt products have been approved under the IECEx scheme and are compliant with the requirements of the scheme via IEC 60079-x.

TR-UNION approval

The EX EAC certificate and the regulation for equipment used in potentially explosive atmospheres, therefore classified explosion proof, is based on the Technical Regulations 012/2011 of the Eurasian Customs Union (TR CU 012/2011). The Custom Union Technical Regulations regulate the quality of the product on the markets of Russia, Belarus, Kazakhstan and soon of Armenia and Kyrgyzstan. The certificate resulting from the compliance with the provisions of the TR CU 012/2011 is the EX EAC certificate, comparable to European ATEX.

Indian Hazardous Location system

CCOE Requirement under Rule 102 of the Petroleum Rules, 2002 lays down that no electrical wiring shall be installed and no electrical apparatus shall be used in petroleum refinery, storage installation, storage shed, service station or any other place where petroleum is refined, blended, stored, loaded/filled or unloaded unless it is approved by the Chief Controller of Explosives (CCoE certificate). It is in this context that electrical equipment which has to be used in a hazardous area covered under Petroleum Rules, 2002 shall require approval from the Chief Controller of Explosives.

INMETRO

The N feder

The National Institute of Metrology, Standardization and Industrial Quality (INMETRO) is a Brazilian federal autarchy, that certify electrical and electronic products. INMETRO acts as Executive Secretariat of the National Council of Metrology, Standardization and Industrial Quality (CONMETRO), an interministerial collegiate entity which is the normative agency of the National System of Metrology, Standardization and Industrial Quality (SINMETRO)."

Notes

Equipment certificates, Ex thread adaptors and Ex stopping plugs

Redapt adaptors and reducers with metric female threads (Ex adaptors) and full range of stopping plugs (Ex stopping plugs) and breather drains are certified as apparatus and granted equipment certificates. This means that they can be fitted to Ex apparatus enclosures without further certification (see installation instructions).

Component certificates

Products certified as components require further approval before they can be fitted to Ex apparatus enclosures. A certificate number ending with the 'U' suffix denotes a component certificate (see installation instructions).

Aluminium products

Aluminium versions of AD-U, RD-U, PD-U, PA-U, PB-U Series and GF nylon and aluminium versions of DP-E Series are not suitable for Group I applications.

Temperature classification

Redapt products do not carry a temperature class or 'T' rating as they are passive and do not generate any heat.

Hazardous area standards generally state a minimum IP rating of IP54 or NEMA 3 for degree of protection against solid foreign objects and against water. However, it is essential when selecting Redapt products to ensure that the product will maintain the IP or NEMA rating of the equipment and the integrity of the installation.

The following table contains definitions detailing the environmental protection levels that Redapt products are capable of maintaining:

IP codes are based on the IEC standard dust/water 50269 – degrees of protection provided by enclosures 1st numeral – protection against solid objects

2nd numeral – protection against water

IP54	Dust protected. Prevents ingress of dust sufficient to cause harm.Protected from splashing water from any direction.
IP66	 Dust-tight. No ingress of dust possible. Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
IP67	 Dust-tight. No ingress of dust possible. Protected against harmful ingress of water when immersed between a depth of 150mm to 1m.
IP68	 Dust-tight. No ingress of dust possible. Protected against submersion. Suitable for continuous immersion in water at stated depth. (Depth stated for Redapt products = 2m for 60 minutes duration)
North An	nerican and Canadian markets define environmental protection as CSA and NEMA enclosure types
Туре З	• Type 3 enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust and damage from external ice formation.
Type 4	• Type 4 enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against wind blown dust and rain, splashing water, hose directed water and damage from external ice formation.

- Type 4X Type 4X enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, wind blown dust and rain, splashing water, hose directed water and damage from external ice formation.
- Type 6 enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against hose directed water, the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.
- Type 6P Type 6P enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against hose directed water, the entry of water during prolonged submersion at a limited depth and damage from external ice formation.

Part numbering system

Codes

Page No.	Product	Digits 1 & 2				
Adaptors a	nd reducers					
14-17	AD	Adaptor				
14-17	RD	Reducer				
19	AY	'Y' adaptor				
20	AT	'T' adaptor				
21	AR	90° adaptor				
22	AS	45° adaptor				
18	TA	Swivel - in-line male to female				
18	TC	Swivel - in-line female to female				
18	TD	Swivel - in-line male to male				
18	TP	Swivel - 90° male to female				
18	TQ	Swivel - 90° female to female				
18	TR	Swivel - 90° male to male				
22	AM	Male to male adaptor				
23	AF	Female to female adaptor				
24-25	DB	Insulated adaptor				
Stopping F	lugs					
26-27	PD	Dome head plug				
28	PA	Type A plug				
28	PB	Type B plug				
Breather D	rains					
31	DP	Breather drain (Exe)				
32	BD	Breather drain (Exde)				
Other prod	ucts					
33	SB	Stopper box (rigid conduit/cable gland)				
34	UN	Union - male to female				
34	UF	Union - female to female				
35	AE	Earth lead adaptor				
36	ET	Threaded earth plate				
37	FX	Stopper box (flexible conduit)				

Certification	Digit 3
U	Exd I and IIC & Exe I and IIC
E	Exe I and IIC
F	Industrial (marked product)
Material	Digit 4
1	Brass
2	Mild steel
3	Stainless steel
4	Glass filled nylon
5	Aluminium
6	Nylon 6
7	Red fibre
Plating	Digit 5
0	Unplated
1	Electroless nickel
2	Zinc
6	Chromatised

Example

Digits 1 & 2	Digit 3	Digit 4	Digit 5	Digits 6 & 7	Digits 8 & 9
AD -	U ·	· 1 ·	- 1	- 29	- 04
Adaptor	Exd/e certified	Brass	Nickel- plated	1⁄2″ NPT (male)	M20 (female)

Always quote male thread first.

Male thread - digits 6 & 7, female thread - digits 8 & 9 Note: threadform codes below to be used for both male and female threads.

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 1/2" NPSM	55 1⁄2" BSPP	68 1⁄2" BSPT	79 PG7
04 M20	18 ¾" ET	30 3⁄4" NPT	43 3⁄4" NPSM	56 3⁄4" BSPP	69 3/4" 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 1 ¹ ⁄4" ET	32 11⁄4" NPT	45 11/4 " NPSM	58 11/4" BSPP	71 11/4" BSPT	82 PG13.5
07 M40	21 11⁄2" ET	33 11⁄2" NPT	46 11/2" NPSM	59 11/2" BSPP	72 11/2" 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 2 ¹ ⁄2" ET	35 21⁄2" NPT	48 21/2" NPSM	61 21/2" BSPP	74 21/2" 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 3 ¹ ⁄2" NPT	50 3 ¹ ⁄2" NPSM	63 3 ¹ ⁄2" BSPP	76 3 ¹ ⁄2" 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						
MT Special						

Part numbering system for DPE breather drains only (page 31)

Product	Certification	Material	Plating	Thread type	Thread length	Hole position	Castellated I/nut
DP Standard	E Exe I and IIC	1 Brass	0 Unplated	04 M20	S1 10mm	2 Holes	With
		3 S/steel	1 E/nickel	05 M25	S2 10mm	2 Holes	Without
		4 GF Nylon	2 Zinc	06 M32	S3 15mm	3 Holes	With
				29 ¹ /2" NPT	S4 15mm	3 Holes	Without
				30 3⁄4" NPT			
				31 1" NPT			

Note: Glass filled nylon version is only available in S3 and S4 options and is supplied complete with a brass castellated locknut. NPT threaded breather drains are only available in S3 and S4 options.

Example

Standard	E×	ke I and IIC	2	Stainless steel		Unplated		M20		10mm
DP	-	E	-	3	-	0	-	04	-	S1

Part numbering system for BDU breather drains only (page 32)

Product	Certification	Material	Plating	Thread	O-ring
BD Standard	U Exd I and IIC and	1 Brass	0 Unplated	04 M20	D0 no O-ring
	Exe I and IIC	3 Stainless steel	1 Electroless nickel	05 M25	D1 Silicone
			2 Zinc	29 ¹ ⁄2" NPT	D2 Fluorosilicone
				30 3⁄4" NPT	D3 Viton
					D4 EPDM
					D5 Neoprene
					D6 Nitrile

Standard		d I and Exe I an		Stainless steel		Unplated		M20		Silicone O-ring
BD	-	U	-	3	-	0	-	04	-	D1

Thread dimension chart

ISO metric

BS 3643 1.5	BS 3643 1.5mm pitch								
Size	Major dia.	TPI							
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 pitc	h								
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.ASM	E D1.20.1	
Size	Pipe dia.	TPI
1/2″	21.34	14.00
3⁄4″	26.67	14.00
1″	33.40	11.50
11⁄4″	42.16	11.50
11⁄2″	48.26	11.50
2″	60.33	11.50
2 ¹ /2″	73.03	8.00
3″	88.90	8.00
31⁄2″	101.60	8.00
4"	114.30	8.00

PG

BS 3643 1.5r	nm pitch	
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

BS 3643 1.5	mm pitch	
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; U	NI 6125	
Size	Pipe Dia.	TPI
3⁄8″	16.66	19.00
1/2″	20.96	14.00
3⁄4″	26.44	14.00
1″	33.25	11.00
11⁄4″	41.91	11.00
11⁄2″	47.80	11.00
2″	59.61	11.00
2 ¹ /2″	75.18	11.00
3″	87.88	11.00

ET imperial conduit

BS31		
Size	Major dia.	TPI
5⁄8″	15.88	18.00
3⁄4″	19.05	16.00
1″	25.40	16.00
1 ¹ ⁄4″	31.75	16.00
11⁄2″	38.10	14.00
2″	50.80	14.00
2 ¹ /2″	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	-	5⁄8″	
M20	1/2″	11, 13.5	1/2″	3⁄4″	
M25	3⁄4″	16	3⁄4″	1″	
M32	1″	21	1″	11⁄4″	
M40	11⁄4″	29	11⁄4″	11⁄2″	
M50	11⁄2″	36	11⁄2″	2″	
M63	2″	42, 48	2″	2 ¹ /2″	
M75	21/2"	-	21⁄2″	3″	
M90 x 2.0	3″	-	3″	-	
M100 x 2.0	31⁄2″	-	-	-	
M110 x 2.0	-	-	-	-	
M120 x 2.0	-	-	-	-	

Adaptors and reducers selection guide

STEP 1 – To obtain the correct reference number, select the male size from the left hand column, then refer horizontally across the page to the female size (i.e. M32 (male) x M40 (female) = 208). Reference numbers in blue are adaptors; other references are reducers.

Female Size

	Me	tric													NPT	-									PG								
Male	M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	06M	M100	M110	M120	1/2″	3/4″	1"	11/4″	11/2″	2"	2 ^{1/2} "	3"	31/2"	4"	PG7&9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48
M16	201	201													216										201	201	201						
M20	301	202	203												217	218									301	202	202	202	204				
M25	303	303	257	206											303	219	221								303	303	303	257	204				
M32	305	305	305	206	208										305	305	221	223							305	5 305	305	305	207	258			
M40	307	307	307	307	208	209									307	307	307	223	224						307	307	307	307	307	208	209		
M50	309	309	309	309	309	259	211								309	309	309	309	225	226					309	309	309	309	309	309	210	210	211
M63	310	310	310	310	310	310	211	212							310	310	310	310	310	226	227				310	310	310	310	310	310	310	310	211
M75	311	311	311	311	311	311	311	212	261	213	213				311	311	311	311	311	311	360	228			311	311	311	311	311	311	311	311	311
M80	311	311	311	311	311	311	311	261	261	214	214																						
M85	312	312	312	312	312	312	312	214	214	214	214																						
M90	312	312	312	312	312	312	312	312	214	214	214	215			312	312	312	312	312	312	312	229	23	0 23									
M100	313	313	313	313	313	313	313	313	313	313	215	215	262	263	313	313	313	313	313	313	313	313	23	0 23									
M110	325	325	325	325	325	325	325	325	325	325	325	262	262	263																			
M120	326	326	326	326	326	326	326	326	326	326	326	326	263	263																			

	Ν	/let	ric									NP	Г										PG								
NPT	M16		M20	M25	M32	M40	M50	M63	M75	06M	M100	1/2″	3/4"	1"	11/4″	1 ^{1/2} "	2"	2 ^{1/2} "	3"	31/2"	4"	5″	PG7&9	PG135	2	PG16	PG21	PG29	PG36	PG42	PG48
¹ /2″	3	14	232	2 23	4							245	246	;									314	232	232	2 23	2 26	65			
3/4″	3	15	315	5 23	4 23	5						315	246	5 247									315	315	315	5 <mark>23</mark>	4 23	85			
1″	3	16	316	31	6 <mark>23</mark>	6 23	7					316	316	6 <mark>248</mark>	249	Э							316	316	316	6 31	6 <mark>2</mark> 3	36 23	37		
1 ¹ /4″	3	17	317	7 31	7 31	7 23	7 23	8				317	317	317	249	9 250)						317	317	317	7 31	7 31	7 23	37 23	8	
1 ¹ /2″	3	18	318	3 31	8 31	8 31	8 <mark>23</mark>	8 24	0			318	318	318	318	3 <mark>25</mark> 0	251						318	318	318	3 31	8 31	8 31	8 23	8 23	9 240
2″	3	19	319	9 31	9 31	9 31	9 31	9 <mark>24</mark>	0 24 [.]			319	319	319	319	9 319	251	252	2				319	319	319	9 31	9 31	9 31	9 31	9 31	9 <mark>240</mark>
2 ¹ /2″	3	20	320) 32	0 32	0 32	0 320	0 32) <mark>24</mark> 2	2 243	3	320	320	320	320	320	320	253	3 254	ŀ			320	320	320	32	0 32	20 32	20 32	0 32	0 320
3″	3	21	321	32	1 32	1 32	1 32	1 32	1 32	243	3 244	321	321	321	32	1 321	321	321	254	255	5		321	321	321	1 32	1 32	21 32	21 32	1 32	1 321
3 ¹ /2″	3	22	322	2 32	2 32	2 32	2 322	2 32	2 322	2 322	2 244	322	322	322	322	2 322	322	322	322	255	5 256	6	322	322	322	2 32	2 32	22 32	22 32	2 32	2 322
4″	3	23	323	3 32	3 32	3 32	3 323	3 32	3 323	3 323	3 323	323	323	323	323	3 323	323	323	323	3 3 2 3	3 256	6 264	323	323	323	3 32	3 32	23 32	23 32	3 32	3 323
5″	_		-	-	-	-	-	-	-	-	_	327	327	327	327	7 327	327	327	327	327	327	7 –	-	_	_	-	-	-	-	-	-

	Me	tric							NPT	-						PG								
ЪG	M16	M20	M25	M32	M40	M50	M63	M75	1/2″	3/4"	1″	1 ^{1/4} "	1 ^{1/2} "	2"	2 ^{1/2} "	PG7&9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48
7&9	201	201							216							201	201	201						
11	202	202	203						217	218						301/202	202	202	202					
13.5	301	202	203						217	218						301	202	202	202	204				
16	302	203	203						218	218	221					302	302	203	203	204				
21	304	304	205	206	206				304	220	221					304	304	304	304	205	258			
29	306	306	306	306	208	209			306	306	223	223	224	Ļ		306	306	306	306	306	208	209		
36	308	308	308	308	308	209	211		308	308	308	224	224	ł		308	308	308	308	308	308	209	210	211
42	324	324	324	324	324	210	211		324	324	324	324	324	226	5	324	324	324	324	324	324	324	210	211
48	310	310	310	310	310	310	211	211	310	310	310	310	310	226	5 227	310	310	310	310	310	310	310	310	211

Adaptors and reducers selection guide

STEP 2 – Having obtained the reference number, go to the relevant column within the dimension tables to obtain the adaptor or reducer's dimensions. Please note that these dimensions refer to metallic products only.

Adaptors

Metric x metric, metric	x FG, P		, PU																
Reference numbers	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	257	258	259
Hex across flats	23.4	27.0	30.5	33.0	36.0	37.6	37.6	47.2	55.9	61.2	70.1	90.2	106.4	106.4	114.3	23.4	31.8	41.3	57.2
Hex across corners	26.8	31.0	35.0	38.0	41.5	43.2	43.2	53.4	64.3	70.4	81.8	103.7	122.4	122.4	131.4	26.8	36.1	47.7	66.0
Male thread length	16	16	16	16	16	16	16	16	16	16	16	16	16	20	20	15	16	16	16
Female thread length	17	17	17	17	17	17	17	17	17	17	17	17	22	22	22	20	17	17	17
Total length	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	39.5	39.5	39.5	39.5	45.0	49.0	49.0	42.0	38.5	38.5	39.5
Metric x NPT, PG x NP	T																		
Reference numbers	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	261	262	263	-
Hex across flats	27.0	30.5	32.0	37.6	37.6	41.3	47.2	55.9	57.2	70.1	80.0	106.4	106.4	114.3	127.0	90.2	120.7	139.7	-
Hex across corners	31.0	35.0	36.7	43.2	43.2	47.5	53.4	64.3	66.0	81.8	92.0	122.4	122.4	131.4	147.0	104.1	139.4	161.3	-
Male thread length	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	20	20	-
Female thread length	20	20	20	20	25	25	26	26	26	27	40	35	42	42	44	22	22	22	-
Total length	42	42	42	42	47	47	47	48	48	48	58	58	62	62	62	48	48	49	-
NPT x metric, NPT x P(3																		
Reference numbers	232	233	234	235	236	237	238	239	240	241	242	243	244	260	265	-	-	-	-
Hex across flats	23.4	28.6	30.5	37.6	37.6	44.5	55.9	70.1	70.1	90.2	90.2	106.4	114.3	90.2	33.0	-	-	-	-
Hex across corners	26.8	32.9	35.0	43.2	43.2	51.1	64.3	70.4	81.8	103.7	103.7	122.4	131.4	103.7	38.0	-	-	-	-
Male thread length	20	20	20	20	25	25	25	25	25	25	35	35	35	16	20				
Female thread length	17	17	17	17	17	17	17	17	17	17	17	22	22	35	77	-	-	-	-
Total length	43	43	43	43	48	48	49	49	49	49	59	64	64	58	43	-	-	-	-
NPT x NPT																			
Reference numbers	245	246	247	248	249	250	251	252	253	254	255	256	264	-	-	-	-	-	-
Hex across flats	23.4	30.5	37.6	37.6	47.2	55.9	70.1	80.0	80.0	106.4	114.3	127.0	158.8	-	-	-	-	-	-
Hex across corners	26.8	35.0	43.2	43.2	53.4	64.3	81.8	92.0	92.0	122.4	131.4	146.0	183.3	-	-	-	-	-	-
Male thread length	20	20	20	25	25	25	25	25	35	35	35	35	35	-	-	-	-	-	-
Female thread length	20	20	25	25	25	25	25	35	35	35	35	35	47	-	-	-	-	-	-
Total length	46	46	51	56	56	57	57	67	77	77	78	78	81	_	-		_		_

Reducers

Metric and PG																			
Reference numbers	301	302	303	304	305	306	307	308	309	310	311	312	313	324	325	326	-	-	-
Hex across flats	27.0	30.5	31.8	36.0	37.6	44.5	47.2	55.9	57.2	70.1	90.2	106.4	114.3	61.2	120.7	127.0	-	-	-
Hex across corners	31.0	35.0	36.7	41.5	43.2	51.1	53.4	64.3	66.0	81.8	103.7	122.4	131.0	70.7	139.4	146.6	-	-	-
Male thread length	16	16	16	16	16	16	16	16	16	16	16	20	20	16	16	16	-	-	-
Total length	26	26	26	26	26	26	26	27	27	27	27	31	31	27	28	28	-	-	-
NPT																			
Reference numbers	314	315	316	317	318	319	320	321	322	323	327	-	-	-	-	-	-	-	-
Hex across flats	23.4	27.9	34.9	44.5	52.1	61.2	80.0	90.2	106.4	120.7	146.0	-	-	-	-	-	-	-	-
Hex across corners	26.8	32.1	40.2	51.1	59.9	70.4	92.0	103.7	122.4	138.8	168.6	-	-	-	-	-	-	-	-
Male thread length	20	20	25	25	25	25	35	35	35	35	35	-	-	-	-	-	-	-	-
Total length		30	35	35	35	36	46	46	46	47	47								

Metallic (Exd/Exe) adaptors and reducers - ADU / RDU Series

Technical specification Code of protection categories

Compliance standards

Certificate details

CCoE: P362565/1

Temperature

CSA: 1248014 (LR 106084) EAC: RU C-GB.MЮ62.B.06225

INMETRO: NCC 18.0133 X

None: -60°C to ~ +200°C

EPDM: -30°C to +125°C Neoprene: -20°C to +100°C

Viton: -5°C to +180°C

Silicone: -30°C to +180°C Fluorosilicone: -50°C to +150°C

Ingress protection (IP):

instructions

Part number:

ATEX: I M2, II 2 GD, Ex d I/IIC Mb Gb, Ex e I/IIC Mb Gb, Ex tb IIIC Db, IP6X

CSA: Ex de IIC IP66/67/68; Class I, Divisions 1 and 2; Groups A, B, C, D; Class

CSA: C22.2 No .30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079-1-11,

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

ATEX: 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

CAN/CSA 60079-7-12, CAN/CSA 60079-31:12, UL1203-5th Edition

II, Groups E, F, G; Class III; Enclosure Type 4X/6P

ATEX: Sira 00ATEX1094X; ITS16ATEX101339X IECEx: IECEx SIR 12.0016X; IECEx ITS 16.0013X

Temperature will depend on the type of O-ring used:

Please refer to page 10 for part numbering system

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

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

Nitrile: -20°C to +80°C (supplied as standard)



Type ADU

Features

- International Ex approvals
- IP66, IP68, CSA Enclosure Type (NEMA) 4X, 6P
- Various threadforms/materials available

Benefits

- Used to change size/threadform of connection device
- · Maintains Ex certification while matching threadforms

Materials

- Brass CZ121
- · 316 stainless steel Aluminium
- Mild steel

Plating options

- Electroless nickel

Threadforms

- Metric
- NPT
- PG
- · ISO Pipe (BSP)
- ET

• Zinc

• Others on application

Available thread sizes and corresponding bore size

Metric NPT ISO Pipe Bore Bore Bore ET Bore PG Bore M16 10.00 ³/8′ 10.00 ⁵/8″ 10.00 PG7 8.00 M20 1⁄2" 15.00 1⁄2" 3⁄4" 14.00 PG9 14.00 15.00 10.00 3⁄4" 3⁄4" 1" PG11 M25 18.00 19.00 19.00 18.00 13.50 1" 1" 1¼" PG13.5 M32 24.00 25.00 25.00 24.00 14.00 1¼" 1¼" M40 32 00 32 00 32 00 11/5' 32 00 PG16 16 00 2" M50 4100 11/2 38.00 11/5' 38.00 4100 PG21 2100 2½" M63 53 00 2" 49 00 2" 49 00 53 00 PG29 29.00 M75 64 00 21/2 60.00 21/2' 60.00 3" 64 00 PG36 38.00 PG42 M80 x 2.0 69.00 3" 75.00 3' 75.00 45.00 PG48 M85 x 2.0 73.00 31/2 88.00 31/2' 88.00 50.00 M90 x 2.0 78.00 4" 100.00 Δ" 100.00

Sizes M12 to M120 available.

90 degree (Exde) adaptors - ARU Series



Threadforms

• ISO Pipe (BSP)

Metric

• NPT • NPSM

• PG

• ET

Technical specification

Code of pr	otection categories
ATEX/EAC:	II 2 GD, Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP66
IECEx: Ex c	ib IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP66
EAC: Ex d l	IC Gb U, Ex e IIC Gb U, Ex tb IIIC Db U
INMETRO:	Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP6X
Compliand	e standards
ATEX: EN 6	0079-0, EN 60079-1, EN 60079-7, EN 60079-31
IECEx/EAC	: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
): ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, IEC 60079-7, IEC 60079-31
Certificate	details
ATEX: ITS1	6ATEX101340U
IECEx: IECI	Ex ITS 16.0015U
EAC: RU C-	GB.иM43.B.01715
INMENTRO): NCC 18.0133X
CSA: 12480)14 (LR 106084)
Temperatu	re
	classifi ed as a component and therefore metallic products are not erating temperature range
Ingress pro	otection (IP):
	ntly tested to IP66 / IP68 when fi tted in accordance to er's instructions
Part numb	er:

Please refer to page 10 for part numbering system

Features

- International Ex approvals
- IP6X, CSA Enclosure Type (NEMA) 3
- Available in brass, stainless steel and aluminium
- Various threadforms available

Benefits

- Provides means of connection where space is limited
- Can be used to change size/threadform of connection device
- Maintains Ex certifi cation while matching threadforms

Materials

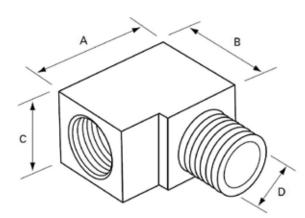
- Brass CZ121
- 316 stainless steel
- Aluminium

Plating options

- Electroless nickel
- Zinc
- Others on application

Dimensions

Size	Bore (D)	Male length	Height (A)	Length (B)	Width (C)	
M16 x M16	10.00	16.00	33.00	27.00	23.00	
M20 x M20	14.00	16.00	39.00	29.00	25.40	
M25 x M25	18.00	16.00	46.00	35.00	32.00	
M32 x M32	24.00	16.00	51.00	44.00	40.00	
M40 x M40	32.00	16.00	61.00	52.00	48.00	
M50 x M50	41.00	16.00	73.00	65.00	60.00	
M63 x M63	53.00	16.00	86.00	77.00	73.00	
M75 x M75	64.00	16.00	99.00	94.00	87.00	



Technical and file

'T' (Exd/Exe) adaptors - ATU Series



Features

- International Ex approvals
- IP66, IP68
- Available in brass, stainless steel, mild steel and aluminium

Benefits

• Provides an opportunity for two cable entries using one equipement entry

Threadforms

MetricNPT

- Can be used to change size/threadform of connection device
- Maintains Ex certification while matching threadforms

Materials

- Brass CZ121
- 316 stainless steel
- Mild steel
- Aluminium

Plating options

- Electroless nickel
- Zinc
- Others on application

Dimensions

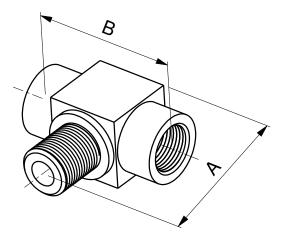
Male size	Female size	A (max.)	B (max.)	
M16	M16 to M20	49.00	60.00	
M20	M16 to M25	55.00	65.00	
M25	M16 to M32	64.00	72.00	
M32	M16 to M40	73.00	80.00	
M40	M16 to M50	84.00	90.00	
M50	M16 to M63	99.50	105.00	
M63	M16 to M75	117.00	120.00	
M75	M16 to M75	117.00	120.00	
³ /8" NPT	3/8" to ½" NPT	49.50	60.00	
1⁄2" NPT	³ / ₈ " to ³ /4" NPT	60.20	65.00	
34" NPT	³ / ₈ " to 1" NPT	69.50	72.00	
1" NPT	³ / ₈ " to 1¼" NPT	84.30	81.00	
1¼" NPT	³ / ₈ " to 1½" NPT	95.00	90.00	
11/2" NPT	³ / ₈ " to 2" NPT	111.00	105.00	
2" NPT	³ /8" to 2½" NPT	129.20	120.00	
21⁄2″ NPT	3/8" to 21/2" NPT	142.50	120.00	

Technical specification

Code of protection categories
ATEX: II 2 GD / I M2, Ex db I Mb, Ex eb I Mb (not aluminium), Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP 66
IECEx: Ex db I Mb, Ex eb I Mb (not aluminium), Ex db IIC Gb, Ex eb IIC (Ex tb IIIC Db IP 6X
Compliance standards
ATEX: 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: Sira 10ATEX1056U; ITS16ATEX101340U
IECEx : IECEx SIR 10.0025U; IECEx ITS 16.0015U
EAC: RU C-GB.иM43.B.01715
INMETRO : NCC 18.0133 X
Temperature
Temperature range: -60°C to +200°C
Ingress protection (IP):
Independently tested to IP66 / IP68 when fitted in accordance to manufacturer's instructions

Part number:

Please refer to page 10 for part numbering system



'Y' (Exd/Exe) adaptors - AYU Series



Technical specification

Code of prote	ection categories
	/ I M2, Ex db I Mb, Ex eb I Mb (not aluminium), Ex eb IIC Gb, Ex tb IIIC Db IP 66
IECEx: Ex db I Ex tb IIIC Db II	Mb, Ex eb I Mb (not aluminium), Ex db IIC Gb, Ex eb IIC Gb, P 6X
Compliance s	tandards
ATEX: EN 600	79-0, EN 60079-1, EN 60079-7, EN 60079-31
IECEx: IEC 60	079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
Certificate de	tails
ATEX: Sira 104	ATEX1056U; ITS16ATEX101340U
IECEx: IECEx	SIR 10.0025U; IECEx ITS 16.0015U
EAC: RU C-G	В.иМ43.В.01715
INMETRO: N	CC 18.0133 X
Temperature	
Temperature r	ange: -60°C to +200°C
Ingress prote	ction (IP):
	tested to IP66 / IP68 when fitted in accordance to manufacturer's
Ingress prote	ction (IP):

Part number:

Please refer to page 10 for part numbering system

Features

- International Ex approvals
- IP66, IP68
- Available in brass, stainless steel, mild steel and aluminium

Benefits

• Provides extra means of connection where space is limited

Threadforms

MetricNPT

- Used to change size/threadform of connection device
- Maintains Ex certification while matching threadforms

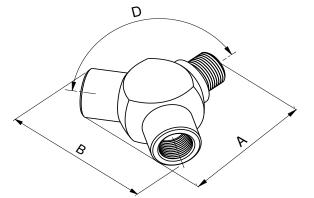
Materials

- Brass CZ121
- 316 stainless steel
- Mild steelAluminium

Plating options

- Electroless nickel
- Zinc
- Others on application

Dimensions				
Male size	Female size	A (max.)	B (max.)	Angle between entries (D
M16	M16	65.00	75.00	120°
M20	M20	65.00	75.00	120°
M25	M25	67.00	78.00	120°
M32	M32	70.00	81.00	120°
M40	M40	89.00	102.00	120°
M50	M50	104.00	120.00	120°
M63	M63	131.00	151.00	120°
M75	M75	153.00	177.00	120°
¾ ″ NPT	¾ " NPT	65.00	75.00	120°
1⁄2" NPT	1⁄2″ NPT	65.00	75.00	120°
34" NPT	34 " NPT	67.00	78.00	120°
1" NPT	1" NPT	78.00	90.00	120°
1¼" NPT	114" NPT	89.00	102.00	120°
11/2" NPT	11/2" NPT	104.00	120.00	120°
2" NPT	2" NPT	131.00	151.00	120°
21/2" NPT	21⁄2" NPT	153.00	177.00	120°





Type ASU

Features

- International Ex approvals
- IP6X, CSA Enclosure Type (NEMA) 3
- Available in brass, stainless steel and aluminium
- Various threadforms available

Benefits

- Provides means of connection where space is limited
- Can be used to change size/threadform of connection device
- Maintains Ex certifi cation while matching threadforms

Materials

- Brass CZ121
- 316 stainless steel
- Aluminium

Plating options

- Electroless nickel
- Zinc
- Others on application

Dimensions

Threadforms
Metric

- NPT
- NPSM
- PG
- ISO Pipe (BSP)
- ET

IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP66 EAC: Ex d IIC Gb U, Ex e IIC Gb U, Ex tb IIIC Db U INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IP6X

Compliance standards

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

IECEx/EAC: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

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

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

Certificate details

ATEX: ITS16ATEX101340U

IECEx: IECEx ITS 16.0015U

EAC: RU C-GB.иM43.B.01715

INMENTRO: NCC 18.0133X

CSA: 1248014 (LR 106084)

Temperature

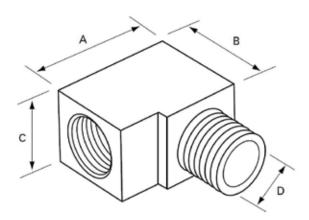
The item is classifi ed as a component and therefore metallic products are not given an operating temperature range

Ingress protection (IP):

Independently tested to IP66 / IP68 when fi tted in accordance to manufacturer's instructions

Part number:

Please refer to page 10 for part numbering system



M16 x M16	10.00	16.00	33.00	27.00	23.00	
M20 x M20	14.00	16.00	39.00	29.00	25.40	
M25 x M25	18.00	16.00	46.00	35.00	32.00	
M32 x M32	24.00	16.00	51.00	44.00	40.00	
M40 x M40	32.00	16.00	61.00	52.00	48.00	
M50 x M50	41.00	16.00	73.00	65.00	60.00	
M63 x M63	53.00	16.00	86.00	77.00	73.00	
M75 x M75	64.00	16.00	99.00	94.00	87.00	

Technical specification

Code of protection categories

In-line and 90 degree (Exd/Exe) swivel adaptors - TAU / TPU Series



Features

- In-line and 90° models available
- International Ex approvals
- IP66, IP68
- Male to male and female to female options available
- Various threadforms/materials available

Benefits

- Allows 360° choice of cable entry/exit positions (90° model)
- In-line models allow independent connection at both ends
- · Improves ease of installation in confined or difficult situations

Materials

- Brass CZ121
- 316 stainless steel

Plating options

• Electroless nickel

- Aluminium
- PGISO Pipe (BSP)
 - ET

• Metric

NPTNPSM

Threadforms

- Zinc
- Others on application

Technical specification

Code of protection categories	
ATEX: I M2, (not aluminium) Ex d Ex e IIC Gb, Ex d, Ex e I Mb (not aluminium) Ex tb IIIC Db IP 6X),
II 2GD, Ex d Ex e IIC Gb, Ex d Ex e I Mb (not aluminium), Ex tb IIIC Db IP 6X	
IECEx: Ex d IIC Gb, Ex e IIC Gb, Ex d I Mb, Ex e I Mb, Ex tb IIIC Db IP 6X	
Compliance standards	
ATEX: 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: Sira 10ATEX1275U; ITS16ATEX101340U	
IECEx: IECEx SIR 10.0123U, IECEx SIR 12.0016X (in-line); IECEx ITS 16.0015	U
EAC: RU C-GB.uM43.B.01715	
INMETRO: NCC 18.0133 X	
Temperature	
Exe Temperature range: -50°C to ~ +150°C	
Ingress protection (IP):	
Independently tested to IP66 / IP68 when fitted in accordance to manufacture instructions	∍r′s

Part number:

90° swivel adaptor

Please refer to page 10 for part numbering system

This part rotates, enabling the cable glands to be correctly positioned for cable connection Cable Cable gland Cable gland Cable/conduit 25mm min.

Male thread (X)	Female thread (Y)	L	W	D
M20	M20	17.00	4.00	17.00
M25	M20 to M25	17.00	4.00	17.00
M32	M20 to M32	17.00	5.00	17.00
M40	M20 to M40	17.00	5.00	17.00
M50	M20 to M50	17.00	5.00	17.00
M63	M20 to M63	17.00	5.00	17.00
M75	M20 to M75	17.00	5.00	17.00

Male to male (Exde) adaptors - AMU Series



Features

- International Ex approvals
- IP6X, CSA Enclosure Type (NEMA) 3
- Available in brass and stainless steel
- Various threadforms available

Benefits

- Provides method of connecting female threadforms
- Connects either matching or dissimilar sizes/threadforms

Threadforms

• ISO pipe (BSP)

• Metric

NPTPG

• ET

• Maintains Ex certifi cation

Materials

- Brass CZ121
- 316 stainless steel

Plating options

- Electroless nickel
- Zinc
- Others on application

Technical specification

Code of protection categories

ATEX: I M2, II 2 GD, Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP6X

IECEx/INMENTRO: Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex tb IIIC Db IP6X CSA: Ex d IIC IP54, Class I, Division 1 and 2; Groups A, B, C, D; Class II, Groups E, F, G; Class III; Enclosure Type 3

EAC: Ex d IIC GB U, Ex e IIC Gb U, Ex tb IIC Db U

Compliance standards

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

IECEx/EAC: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

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

CSA: C22.2 No.30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079-1-11, CAN/CSA 60079-31:12, UL 1203-5th Edition

Certificate details

ATEX: ITS16ATEX101339X

IECEx: IECEx ITS 16.0013X

EAC: TC RU C-GB.MЮ62.B.06225

INMENTRO: NCC 18.0133X

CSA: 1248014 (LR 106084)

Temperature

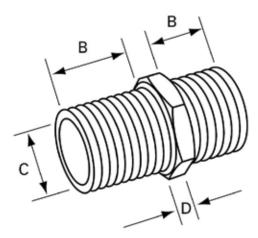
Temperature range: -50°C to +180°C

Ingress protection (IP):

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

Part number:

Please refer to page 10 for part numbering system



Size	B (min.)	С	D	A/F	
M16	16.00	11.00	5.00	23.37	
M20	16.00	14.00	5.50	23.37	
M25	16.00	18.00	5.50	30.48	
M32	16.00	24.00	5.50	37.59	
M40	16.00	32.00	5.50	47.24	
M50	16.00	41.00	6.00	55.88	
M63	16.00	53.00	6.00	70.10	
M75	16.00	64.00	6.50	80.01	

Female to female (Exd/Exe) adaptors - AFU Series



Technical specification

Code of protection categories	
ATEX: I M2, II 2 GD, Ex d I/IIC Mb Gb, Ex e I/IIC Mb Gb, Ex tb IIIC	Db, IP6X
IECEx: Ex d I/IIC, Mb/Gb, Ex e I/IIC, Mb/Gb, Ex tb IIIC Db, IP6X	
Compliance standards	
ATEX: 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: ITS16ATEX101339X	
IECEx: IECEx SIR 12.0016X; IECEx ITS 16.0013X	
EAC: RU C-GB.MЮ62.B.06225	
INMETRO: NCC 18.0133 X	
Temperature:	
Temperature range: -60°C to ~ +200°C	
Ingress protection (IP):	
Independently tested to IP66 / IP68 when fitted in accordance to instructions	manufacturer's
Part number:	

Please refer to page 10 for part numbering system

Features

- ATEX / IECEx approval
- IP6X
- Available in brass and stainless steel
- Various threadforms available

Benefits

- Provides method of connecting male threadforms
- Connects either matching or dissimilar sizes/threadforms
- Maintains Ex certification

Materials

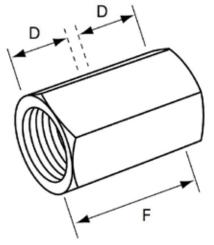
- Brass CZ121
- 316 stainless steel

Plating options

- Electroless nickel
- Zinc
- Others on application



- MetricNPT
- PG
- ISO pipe (BSP)
- ET



D	F	A/F	
16.00	37.50	23.37	
16.00	37.50	23.37	
16.00	37.50	30.48	
16.00	37.50	37.59	
16.00	37.50	47.24	
16.00	37.50	55.88	
16.00	37.50	70.10	
16.00	37.50	80.01	
	16.00 16.00 16.00 16.00 16.00 16.00 16.00	16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50 16.00 37.50	16.0037.5023.3716.0037.5023.3716.0037.5030.4816.0037.5037.5916.0037.5047.2416.0037.5055.8816.0037.5070.10

Insulated (Exd/Exe) adaptors - DBU Series



- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1000
lechnical	specification

-	
Code of protection categories	
ATEX: II 2 GD, Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db	
IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db	
Compliance standards	
ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31	
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-31, IEC 60079-7	
Certificate details	
ATEX: Sira 00ATEX1073U; ITS16ATEX101088X	
IECEx: IECEx ITS 16.0049X	
Temperature	
Temperature range -20°C to +130°C	
Part number:	
Please refer to page 10 for part numbering system	

NB: Product may differ slightly in appearance to photograph

Features

- International Ex approvals
- IP54
- Available in brass, stainless steel, mild steel and aluminium
- Glass filled nylon insulating material

Benefits

- Provides method of insulating connection device from the equipment
- Allows armour current to be controlled in a positive manner
- Inspection of grounding made easy

Materials

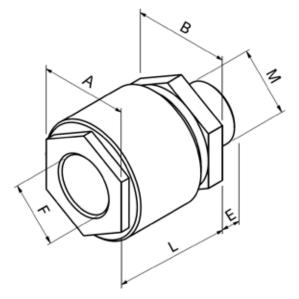
- Brass CZ121316 stainless steel
- Mild steel
- Aluminium
- NPTNPSM
- PG

Metric

ISO pipe (BSP)

Threadforms

• ET



Size	Total length (A)	Male length (B)	
M16	64.00 (min.)	15.00 (min.)	
M20	64.00 (min.)	15.00 (min.)	
M25	64.00 (min.)	15.00 (min.)	
M32	64.00 (min.)	15.00 (min.)	
M40	64.00 (min.)	15.00 (min.)	
M50	64.00 (min.)	15.00 (min.)	
M63	64.00 (min.)	15.00 (min.)	
M75	64.00 (min.)	15.00 (min.)	

Application

To avoid relying on the contact between cable termination and equipment enclosure for grounding the cable armour, an insulated adaptor can be fitted to both ends of the cable with a grounding device (i.e. earth tag/lug) fitted between the adaptor and the termination. The armour current can then be taken from the grounding device to ground in a controlled, positive manner that can be *inspected* easily.

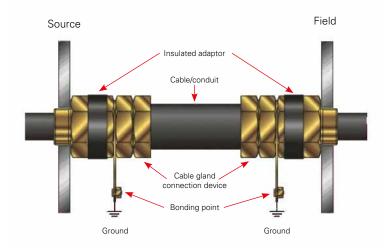
Single point grounding

In many applications it is sufficient to ground the cable armour at one end. For single point grounding, the insulated adaptors would again be used at both ends of the cable but with the earth tag fitted only to the end where grounding is required.

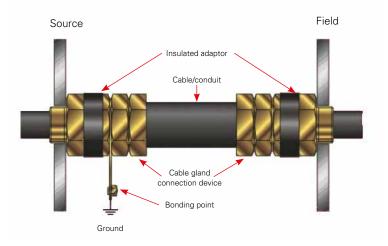
Single point grounding can:

- Reduce the circulating currents that can cause heating of high capacity cables.
- Reduce the risk of damage to electronic equipment within the enclosure in the event of a short circuit to ground through the enclosure.
- Reduce the problems of electrical noise on the armour affecting the clean earth required for some sensitive instruments.

Standard application



Single point grounding



Note: Graphic representation only - actual appearance may differ.

Metallic dome head (Exd/Exe) stopping plugs - PDU Series



Type PDU

Threadforms

ISO pipe (BSP)

• Metric

NPTNPSM

• PG

• ET

Features

- International Ex approvals
- IP66, IP68, CSA Enclosure Type (NEMA) 4X, 6P
- Available in brass, stainless steel, mild steel and aluminium
- Various threadforms available

Benefits

- Provides method of filling unused entries in equipment
- Maintains Ex certification
- Maintains IP integrity

Materials

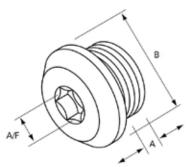
- Brass CZ121
- 316 stainless steel Aluminium
- Mild Steel
- **Plating options**
- Electroless nickel
- Zinc
- Others on application

Technical specification

Code	e of protection categories
ATEX	: I M2, II 2 GD, Ex d I/IIC Mb Gb, Ex e I/IIC Mb Gb, Ex tb IIIC Db, IP6X
IECE	x: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP6X
	Ex de IIC IP66/67/68; Class I, Division 1 and 2; Groups A, B, C, D; Class II, ps E, F, G; Class III; Enclosure Type 4X/6P
Com	pliance standards
ATEX	(: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
IECE	x: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
	C22.2 No. 30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079-1-11 /CSA 60079-7-12, CAN/CSA 60079-31:12, UL1203-5th Edition
Certi	ficate details
ATEX	:: Sira 00ATEX1094X; ITS16ATEX101335X
IECE:	x: IECEx SIR 12.0016X; IECEx ITS 16.0012X
CSA:	1248014 (LR 106084)
EAC:	RU C-GB.MЮ62.B.06226
CCoE	E: P362565/1
INME	ETRO : NCC 18.0133 X
Tem	perature
Temp	perature will depend on the type of O-ring used:
None	e: -50°C to ~ +200°C
Nitrile	e: -20°C to +80°C (supplied as standard)
EPD	M: -30°C to +125°C
Neop	orene: -20°C to +100°C
Viton	: -5°C to +180°C
Silico	ne: -30°C to +180°C
Fluor	osilicone: -50°C to +150°C
The r	naximum temperature is limited to +150°C for Group I applications
Ingre	ess protection (IP):
	pendently tested to IP66 / IP68 when fitted in accordance to manufacturer's uctions

Part number:

Please refer to page 10 for part numbering system



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	

Type A and Type B (Exde) stopping plugs - PAU / PBU Series



Type PBU



Threadforms

• ISO pipe (BSP)

MetricNPT

NPSM

• PG

• ET

Type PAU

Features

- International Ex approvals
- IP6X CSA Enclosure Type (NEMA) 3
- Available in brass, stainless steel, mild steel and aluminium
- Various threadforms available

Benefits

- Provides method of filling unused entries in equipment
- Type B secures from inside, providing extra security
- Maintains Ex certification
- Maintains IP integrity

Materials

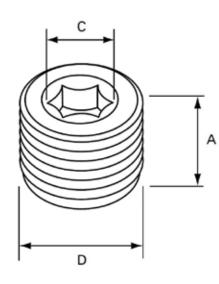
- Brass CZ121
- 316 stainless steel
- Aluminium
- Mild steel
- **Plating options**
- Electroless nickel
- Zinc
- Others on application

Technical specification

Code of protection categories	
ATEX: I M2, II 2 GD, Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP66	
IECEx/INMENTRO: Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex tb IIIC Db IP66	
CSA: Ex d IIC IP54, Class 1, Division 1 & 2; Groups A,B,C & D; Class II, Grou E,F & G; Class III; Enclosure Type 3	ıps
EAC: ExdeIU, ExdeIICU, IP66 / 67 / 68	
Compliance standards	
ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31	
IECEx/EAC: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31	
INMENTRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR I 60079-7, ABNT NBR IEC 60079-31	EC
CSA: C22.2 No.30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079- CAN/CSA 60079-31:12, UL 1203-5th Edition	1-11
Certificate details	
ATEX: ITS16ATEX101335X	
IECEx: IECEx ITS 16.0012X	
CSA: 1248014 (LR 106084)	
EAC: TC RU C-GB.MЮ62.B.06226	
INMENTRO: NCC 18.0133X	
Temperature	
Temperature range: -50°C to +180°C	
Ingress protection (IP):	
Independently tested to IP66 / IP68 when fi tted in accordance to manufactuinstructions	urer':

Part number:

Please refer to page 10 for part numbering system



Size	Overall length (A)	Hex recess (C)	Diameter (D)	
M16	15.00	8.00	16.30	
M20	15.00	10.00	20.30	
M25	15.00	10.00	25.30	
M32	15.00	10.00	32.30	
M40	15.00	10.00	40.20	
M50	15.00	10.00	50.20	
M63	15.00	14.00	63.10	
M75	15.00	14.00	75.00	

Increased safety (Exe) breather drains (metallic) - DPE Series



Features

- International Ex approvals
- IP66, CSA Enclosure Type (NEMA) 4X
- Available in two thread lengths: 10mm 2 drain holes or 15mm 3 drain holes
- Available in brass, stainless steel and aluminium
- Metric and NPT threads available

Benefits

- Provides method of draining moisture within enclosures
- Allows air within enclosure to breathe with surrounding atmosphere

Threadforms

Metric

• NPT

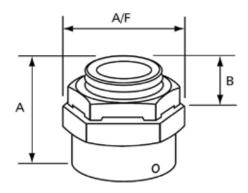
- Maintains increased safety certification
- Maintains IP integrity
- **Materials**
- Brass CZ121
- 316 stainless steel
- Aluminium

Plating options

- Electroless nickel
- Zinc
- Others on application

Technical specifications

Code of protection categories
ATEX:I M2/II 2 GD, Ex e I/II Mb Gb, Ex tb IIIC Db IP66
IECEx: Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP66
CSA; Class 1, Zone 1 Ex e II IP66, CSA Enclosure Type 4X (NEMA 4X)
Compliance standards
ATEX: EN 60079-0, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 60079-31
CSA: CSA Standard C22.2 No. 0-M, CSA Standard C22.2 No. 0.5, CSA Standard C22.2 No. 94, CAN/CSA E79-7-95, UL2279
Certificate details
ATEX: Sira 99ATEX3050X; ITS16ATEX101338X
IECEx: IECEx SIR 08.0024X; IECEx ITS 16.0014X
EAC : RU C-GB.MЮ62.B.06227
CSA: 185887-2500003408 (LR 106084)
INMETRO : NCC 18.0165 X
Temperature
Metallic body dependent on filter and seal material
Nylon body: -50°C to +125°C, unless limited by filter material
HDPE filter: -50°C to 85°C
Metallic filter dependent on body and interface material
Nitrile: -30°C to +100°C (supplied as standard)
EPDM: -50°C to +125°C
Neoprene: -40°C to +100°C
Viton: -20°C to +180°C
Silicone: -50°C to +180°C
Fluorosilicone: -70°C to +150°C
Ingress protection (IP):
Tested to IP66
Part number:
Please refer to page 11 for part numbering system



Size	A/F	Overall length (A)	Thread length (B)	
M20	28.60	23.00 (min.)	10.00 (min.)	
M25	34.90	23.00 (min.)	10.00 (min.)	
M32	41.30	23.00 (min.)	10.00 (min.)	
1⁄2" NPT	28.60	28.00 (min.)	15.00 (min.)	
34" NPT	34.90	28.00 (min.)	15.00 (min.)	
1" NPT	41.30	28.00 (min.)	15.00 (min.)	

Flameproof (Exd/Exe) breather drains - BDU Series



Type BDU

Technical specification

Code of Protection Categories	
ATEX: I M2, II 2 GD, Ex e I/IIC Mb Gb, Ex d I/IIC Mb Gb, Ex tb IIIC Db IP6X	
ECEx: Ex e I/IIC Mb Gb, Ex d I/IIC Mb Gb, Ex tb IIIC Db IP6X	
Compliance Standards	
ATEX: EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31	
ECEx: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31	
Certificate Details	
ATEX: Sira 08ATEX1240X; ITS16ATEX101338X	
IECEx: IECEx SIR 08.0096X; IECEx ITS 16.0014X	
Temperature	
Temperature range dependent on O-ring used (supplied on metric only)	
Nitrile: -20°C to +80°C	
EPDM: -30°C to +125°C	
Neoprene: -20°C to +100°C	
Viton: -5°C to +150°C	
Silicone: -30°C to +150°C (supplied as standard)	
Fluorosilicone: -50°C to +150°C	
Ingress protection (IP):	
Tested to IP66	
Part number:	
Please refer to page 11 for part numbering system	

Features

- International Ex approvals
- IP66
- Available in brass and stainless steel
- Metric and NPT threads available

Benefits

- Provides method of draining moisture within enclosures
- · Allows air within enclosure to breathe with surrounding atmosphere
- Maintains Ex certification
- Maintains IP integrity

Materials

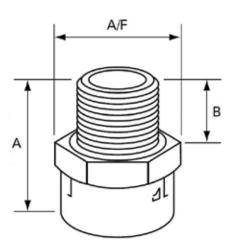
- Brass CZ121
- 316 stainless steel

Plating options

- Electroless nickel
- Zinc
- Others on application

Threadforms

- Metric
- NPT*
- *O-ring not supplied as standard



Size	Hex A/F	Overall length (A)	Male thread length (B)
M20	27.00	31.00	16.00
M20 M25	31.75	31.00	16.00
1⁄2" NPT	27.00	35.00	20.00
34" NPT	31.75	35.00	20.00

Cable gland (Exd/Exe) stopper boxes - SBU Series



Technical specification

Code of protection categories	
ATEX: II 2 GD, Ex d IIC Gb / Ex e IC Gb, Ex tb IIIC Db IP6X	
IECEx: 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, EN 60079-31	
IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-31, IEC 60079-7	
Certificate details	
ATEX: ITS 12ATEX17707X	
IECEx: IECEx ITS 12.0079X	
EAC: RU C-GB.MЮ62.B.06227	
INMETRO: NCC 18.0165 X	
Temperature	
Temperature range -20°C to +85°C	
Ingress protection (IP):	
Independently tested to IP66 / IP68 when fitted in accordance to manu instructions	facturer's
Part number:	
Please refer to page 10 for part numbering system	

Features

- International Ex approvals
- IP66
- · Available in brass and stainless steel
- Various threadforms available

Benefits

- Seals conductors at entry to enclosure
- Enables compound gland to be converted to barrier gland
- Maintains Ex certification
- Maintains IP integrity

Materials

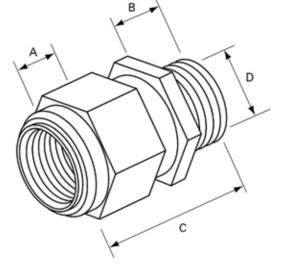
- Brass CZ121
- 316 stainless steel

Plating options • Electroless nickel

- ET
- Zinc
- Others on application

Threadforms

- Metric
- NPT
- PG • ISO pipe (BSP)



Size	Bore (D)	Thread length (A, B) min.	Overall length (C)
M16	8.30	15.00 - 15.00	54.50
M20	11.30	15.00 - 15.00	56.80
M25	13.40	15.00 - 15.00	59.50
M32	17.70	15.00 - 15.00	64.30
M40	24.40	17.00 - 15.00	70.50
M50	31.80	17.00 - 15.00	67.80
M63	41.60	17.00 - 15.00	70.30

Male to female unions / female to female unions (Exde) - UNU / UFU Series



Features

- International Ex approvals
- Available in brass, stainless steel and aluminium
- · Various threadforms available

Benefits

- Provides a running joint
- · Eliminates exposed threads
- Maintains Ex certification

Materials

- Brass CZ121
- 316 stainless steel
- Aluminium
- **Plating options**
- Electroless nickel

• Zinc

• Others on application

Technical specification

Code of protection categories

ATEX: I M2, II 2 GD, Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb, Ex tb IIIC Db IP6X

IECEx/INMENTRO: Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex tb IIIC Db IP6X CSA: Ex d IIC IP54, Class I, Division 1and 2; Groups A, B, C, D; Class II, Groups E, F, G; Class III; Enclosure Type 3

EAC: Ex d IIC Gb U, Ex e IIC Gb U, Ex tb IIIC Db U

Compliance standards

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

IECEx/EAC: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 INMENTRO: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC60079-7, ABNT NBR IEC 60079-31 CSA: C22.2 No.30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079-1-11,

CSA: 022.2 No.30-W1960 (N2012), CAN/CSA 60079-0-11, CAN/CSA 60079-1-11, CAN/CSA 60079-31:12, UL 1203-5th Edition

Certificate details

ATEX: ITS16ATEX101339X IECEx: IECEx ITS 16.0013X

CSA: 1248014 (LR 106084)

EAC: TC RU C-GB.MЮ62.B.06225

INMENTRO: NCC 18.0133X

Temperature

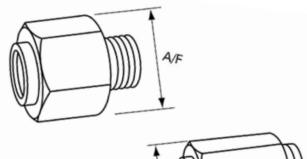
Temperature range: -50°C to +180°C

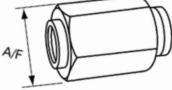
Ingress protection (IP):

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

Part number:

Please refer to page 10 for part numbering system





Dimensions

Male to female unions (UN-D)		Female to female uni	Female to female unions (UF-D)	
Size	A/F	Size	A/F	
M20	37.59	M20	37.59	
M25	42.42	M25	42.42	
M32	55.88	M32	55.88	
M40	55.88	M40	55.88	
M50	80.01	M50	80.01	
M63	90.17	M63	90.17	
M75	114.30	M75	114.30	

Threadforms

• ISO pipe (BSP)

Metric

NPT

• PG

• ET

Earth lead (Exe) adaptors - AEE Series



Type AEE

Technical specification

Code of Protection Categories
ATEX: II 2GD, Ex e IIC Gb, Ex tb IIIC Db, IP6X
IECEx: Ex e IIC Gb, Ex tb IIIC Db IP6X
CSA: Class I, Division 1 Groups C, D; Class I Division 2; Groups A, B, C, D; Class II, Groups E, F, G; Class III; Enclosure Type 3, Class I, Zone 1, AEx e IIB IP54, Class I, Zone 2, AEx e IIC IP54
Compliance standards
ATEX: EN 60079-0, EN 60079-7, EN 60079-31
IECEx: IEC 60079-0, IEC 60079-7, IEC 660079-31
CSA: C22.2 No. 30-M1986 (R2012), CAN/CSA 60079-0-11, CAN/CSA 60079-31:12, UL1203-5th Edition
Certificate details
ATEX: Sira 00ATEX3093X; ITS16ATEX101339X
IECEx: IECEx SIR 12.0016X; IECEx ITS 16.0013X
CSA: 1248014 (LR 106084)
EAC: RU C-GB.MЮ62.B.06225
INMETRO: NCC 18.0133 X
Temperature
Temperature rating: -20°C to +40°C
Part number:

Features

- International Ex approvals
- Available in brass, stainless steel, mild steel and aluminium
- Various threadforms available

Benefits

- Provides a method of bonding cable gland or termination to a grounding or earth point
- Maintains Ex certification

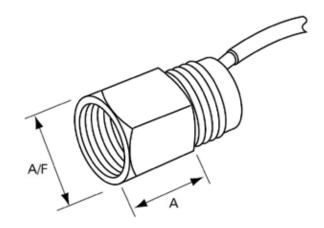
Materials

- Brass CZ121
- 316 stainless steel
- Aluminium
- Mild steel

Threadforms

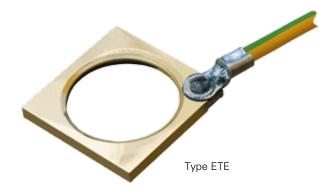
- Metric
- NPT
- PG
- ISO pipe (BSP)
- ET

Please refer to page 10 for part numbering system



Size	Body length (A)	A/F	
M16	21.50	23.37	
M20	21.50	30.48	
M25	21.50	37.59	
M32	21.50	47.24	
M40	21.50	55.88	
M50	21.50	70.10	
M63	21.50	90.17	

Threaded earth plates (Exe) - ETE Series



Technical specification

Code of protection categories	
ATEX: II 2GD, Ex e II	
Compliance standards	
ATEX: EN 50014, EN 50018, EN 50019, EN 50281-1-1	
Certificate Details	
ATEX: Sira 00ATEX1073U	
Temperature	
The item is classified as a component and is therefore not rating	given a temperature
Part number:	
Please refer to page 10 for part numbering system	

Features

- International Ex approvals
- Brass CZ121 material
- Supplied with earth lead
- Various threadforms available

Benefits

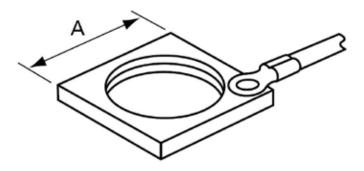
 Ensures earth continuity when terminating brass glands into non-metallic enclosures

Materials

• Brass CZ121

Threadforms

- Metric
- PG
- ET



Size	Material size (A)	Earth lead x 300mm (mm²)
M16	22.00	2.50
M20	30.00	2.50
M25	32.00	4.00
M32	38.00	6.00

Flexible conduit barrier (Exd/Exe) stopper boxes - FXU Series



Technical specification

Code of protection categories	
ATEX: II 2 GD, Ex d IIC Gb / Ex e IIC Gb, Ex tb IIIC Db IP6X	
IECEx: Ex d IIC Gb / Ex e IIC Gb, Ex tb IIIC Db IP6X	
EAC: ExdIICU	
INMETRO: BR-Ex d IIC Gb, BR-Ex tD A21 IP 66/67	
Compliance standards	
ATEX: 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 12ATEX17707X	
IECEx: IECEx ITS 12.0079X	
Temperature	
Temperature range -20°C to +85°C	
Ingress protection (IP):	
Independently tested to IP66 / IP68 when fitted in accordance to manufa instructions	cturer's
Part number:	
Please refer to page 10 for part numbering system	

Features

- ATEX Exd/Exe certification
- IP6X, CSA Enclosure Type (NEMA) 3
- Available in nickel-plated brass and stainless steel
- Supplied with compound, making off instructions and gloves

Benefits

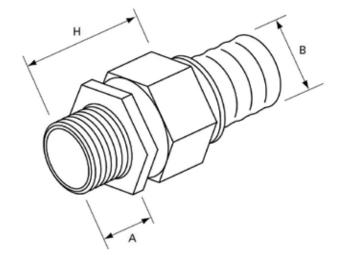
- Provides a flameproof connection for liquidtight and braided flexible conduit by means of compound barrier between individual insulated cable conductors
- Maintains Ex certification
- Maintains IP integrity

Materials

- Nickel-plated brass
- 316 stainless steel

Threadforms

Metric



Size	Thread (A) min.	ØB nominal	Length (H)	
M20	15.00	21.10	44.50	
M25	15.00	26.40	46.00	
M32	15.00	33.10	51.50	
M40	15.00	41.80	52.50	
M50	15.00	47.90	58.50	
M63	15.00	59.70	61.50	

Flexible conduit and accessories



Flexible conduits and accessories are widely used to complete your electrical installation. Various conduit types includes galvanized steel, stainless steel, PVC coating, braided armouring and many others depending on products.

For further information on our flexible conduits and accessories, please visit the website www.eaton.com/uk, or contact our Customer Services team on +44 (0) 1922 450400.





Non-certified accessories

A wide variety of non-certified accessories such as locknuts, washers and bushes are available to compliment the Redapt certified accessory range.

Materials include brass, stainless steel, aluminium, nylon, fibre and many others depending on product, with plating available on metallic finishes. A variety of threadforms are available.

For further information on our non-certified accessories, please consult the **Raxton thread conversion accessories** catalogue, visit the website www.eaton.com/uk or contact our Customer Services team on +44 (0) 1922 450400.





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U.S. (Global Headquarters):

Eaton's Crouse-Hinds Division 1201 Wolf Street Syracuse, NY 13208 (866) 764-5454 FAX: (315) 477-5179 FAX Orders Only: (866) 653-0640 CrouseCustomerCTR@eaton.com

Canada Toll Free: 800-265-0502 FAX: (800) 263-9504 FAX Orders only: (866) 653-0645

Mexico/LatinAmerica/Caribbean 52-555-804-4000 FAX: 52-555-804-4020 veritascentromex@eaton.com

Europe (Germany)

49 (0) 6271 806-500 49 (0) 6271 806-476 sales.CCH.de@ cooperindustries.com

Eaton Electrical Systems Limited Westgate, Aldridge West Midlands WS9 8FS United Kingdom +44 (0) 1922 450400 www.redapt.co.uk csaldridge@eaton.com Middle East (Dubai)

971 4 4272500 FAX: 971 4 4298521 chmesales@eaton.com

Singapore 65-6645-9888 FAX: 65-6297-4819 chsi-sales@cooperindustries.com

China: 86-21-2899-3600 FAX: 86-21-2899-4055 cchsales@cooperindustries.com

Eaton's Crouse Hinds Division 1201 Wolf Street Syracuse, NY 13208 +1 (866) 764-5454 Fax: +1 (315) 477-5179 www.crouse-hinds.com

Korea

82-2-3484-6783 82-2-3484-6778 CCHK-sales@ cooperindustries.com

Australia 61-2-8787-2777 FAX: 61-2-9609-2342 CEASales@cooperindustries.com

India: 91-124-4683888 FAX: 91-124-4683899 cchindia@eaton.com

For more information:

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

Eaton

1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com

Eaton's Crouse-Hinds Division 1201 Wolf Street Syracuse, NY 13208

(866) 764-5454 CrouseCustomerCTR@eaton.com

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