

# Installation Manual for Adaptor & Reducer

Accessories type : ADAPTOR/REDUCER  
 IECEx Certificate No. : IECEx ITS 16.0041X  
 ATEX Certificate No. : ETL22ATEX0109X  
 TC RU Certificate No. : RU C-IN.Ж58.B.03310/22  
 PESO Certificate No. : P568411/1



Ingress Protection : IP66/67 as per EN 60529  
 Code of Protection : Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db  
 Standard follows : EN IEC 60079-0:2018, EN/IEC 60079-31:2014/2013  
 EN/IEC 60079-1:2014,  
 Temperature Range : -60°C to +135°C

## Important Notes for Installers:

1. Read all instructions before beginning installation. Installation shall only be performed by competent, suitably trained person using the correct tools; spanners should be used for tightening.
2. Ingress Protection Statement: The interface between a cable entry device and its associated enclosure / cable entry cannot be defined. It is the user's responsibility to ensure that a minimum protection level (IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres) is maintained at the interface. Entry component threads may need additional sealing to maintain the ingress protection rating and/or restricted breathing performance as applicable to the equipment to which it will be attached, such as by either a sealing washer, thread sealant. Reference should also be made to the information from EN 60079-14:2014, Clause 10, Table 10, (Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP6X).
3. It is the installer's responsibility to ensure the IP rating is maintained at the interface.
4. The standard product temperature range is -60°C to +135°C. The equipment should not be used outside of this range.
5. Adaptor/Reducer do not have any serviceable parts and are therefore not intended to be repaired.
6. Adaptor/Reducer are manufactured from Brass, Nickel Plated Brass and Stainless Steel with IP washer seal. The end user shall consider the performance of these materials with regard to attack by aggressive substances that may be present in the hazardous area. Consideration should be given to potential degradation due to galvanic corrosion at the interface of dis-similar metallic materials.
7. It is the end user's responsibility to ensure the equipment materials are suitable for their final installation location. If in doubt consult Akshar Brass Industries.

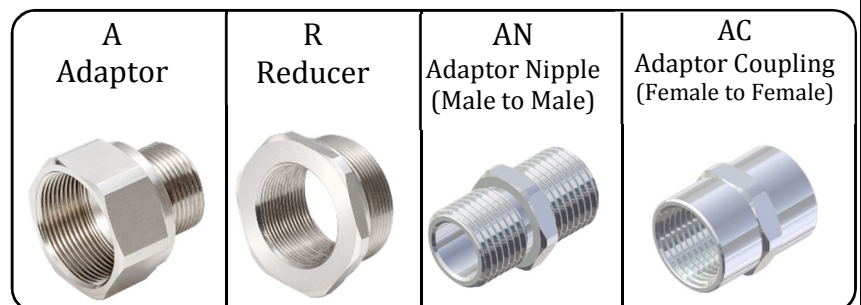
## Special Conditions for Safe Use:

1. For Flameproof Ex "db" applications, only one adapter or reducer shall be used per cable entry.
  2. The adaptors or reducers when used in flameproof applications must not be closed with a flameproof stopping plug.
  3. Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
  4. When the adaptors and reducers are used for increased safety or dust protection with no O Ring fitted the interface between the enclosure and the male thread and the female thread of the adaptor or reducer are to be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure.
  5. When the adaptors or reducers are used for increased safety or dust protection in threaded hole and the O Ring is fitted the entry thread in the enclosure must be at right angles to the enclosure wall, the female thread of the adaptor or reducer are to be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure.
  6. When the adaptors or reducers are used for increased safety or dust protection in a plain hole, the hole in the enclosure must be no greater than 0.7 mm greater than the male thread and the adaptor or reducer must be secured with a locknut the female thread of the adaptor or reducer are to be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure.
  7. In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.
6. Ex Marking on A/R/AN/AC as per below ....

  
 A-M16-M20  
  
 Ex db IIC Gb/Ex eb IIC Gb/  
 Ex tb IIIC Db IP66/67, -60°C to +135°C  
 ETL22ATEX0109X, IECEx ITS 16.0041X  
 RU C-IN.Ж58.B.03310/22, P568411/1

## ACCESSORIES CABTEK TYPE ADAPTOR/REDUCER

ADAPTOR/REDUCERS FOR USE IN EXPLOSIVE ATMOSPHERES TO CHANGE THE SIZE, TYPE OR GENDER OF A THREADED COMPONENT

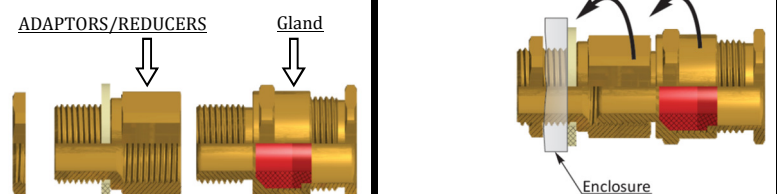


## Product Selection Table:

Male Thread			Female Thread			Torque (Nm) For Metric Entry	Torque (Nm) For NPT Entry
Metric	NPT/BSP	ET	Metric	NPT/BSP	ET		
M12x1.5	1/4"-18	-	M12x1.5	1/4"-18	-	25	40
M16x1.5	3/8"-18	5/8"ET	M16x1.5	3/8"-18	5/8"ET	40	60
M20x1.5	1/2"-14	3/4"ET	M20x1.5	1/2"-14	3/4"ET	40	90
M25x1.5	3/4"-14	1"ET	M25x1.5	3/4"-14	1"ET	55	90
M32x1.5	1"-11.5	1 1/4"ET	M32x1.5	1"-11.5	1 1/4"ET	65	113
M40x1.5	1 1/4"-11.5	1 1/2"ET	M40x1.5	1 1/4"-11.5	1 1/2"ET	80	113
M50x1.5	1 1/2"-11.5	2"ET	M50x1.5	1 1/2"-11.5	2"ET	100	113
M63x1.5	2"-11.5	2 1/2"ET	M63x1.5	2"-11.5	2 1/2"ET	115	181
M75x1.5	2 1/2"-8	3"ET	M75x1.5	2 1/2"-8	3"ET	140	181
M90x2.0	3"-8	3 1/2"ET	M90x2.0	3"-8	3 1/2"ET	180	181
M100x2.0	3 1/2"-8	4"ET	M100x2.0	3 1/2"-8	4"ET	180	181

## Installation Guide for Adaptor/Reducer

1. It is necessary to select appropriate adaptor/reducer as shown in below figure to fit gland
2. Fit the gland into the Adaptor/Reducer and fully tighten the entry item. Thread seal will engage when fully tightened.



  
 electrical accessories

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