

COUPLERS AND UNIONS

Class I / II / III Div. 1, 2

Class I / II / III Zone 1 & Zone 21



Coupler

Union

Features and Benefits

- Used to convert cable gland thread types or sizes to the required ones of the opposite gender.
- Couplers with metric threads are supplied with sealing gaskets.

Technical Data

Product:	Coupler (Male to male threads). Union (Female to female threads)
Material:	Aluminium, Brass (Marine Grade Electroless Nickel Plated), Bronze PB2 (Larger sizes only - Marine Grade Electroless Nickel Plated), or Stainless Steel
Gasket:	HDPE, Nylon 66 or PTFE. (Selected according to the temperature range required)
Note:	The installer should check that the materials are suitable for the installation environment.
Temperature ranges:	When fitted with sealing gaskets the temperature range for the Couplers will be:-
Sealing gasket material	Temperature range
HDPE	-20°C or -60°C to +95°C
Nylon	-20°C or -60°C to +100°C
PTFE	-20°C or -60°C to +160°C
Note:	-60°C temperature range applies to AEx / Ex eb applications only

Standards and Certifications

Type	Certificate	Protection Level
NEC / CEC:	LR1537-2	Class I/II/III Div. 1,2; Class I, Zone 1; Zone 21 AEx / Ex db IIC Gb, AEx/ Ex eb IIC Gb, AEx/ Ex tb IIIC Db

In accordance with NEC/CEC the products can additionally be used in Zones 2 and 22



Other certification types are available for this product e.g. IECEx.

Specific Conditions of Use - X

1. Products have a minimum IP rating of IP65 with no sealing gasket. Metric threads can have an IP rating of IP66/67/68 if fitted with the supplied sealing gasket. NPT threads can have an IP rating of IP66/67/68 if fitted using a suitable thread sealant.
2. Only one coupler or union should be installed in any one cable entry.
3. The coupler or union should not be fitted with a blanking plug for AEx / Ex db applications.
4. Suitable for use in indoor and outdoor locations.
5. Aluminium products should not be used in a salt water / vapour atmosphere.

Product Code Structure

The product codes are made up as follows:-

1st Digit:	2nd Digit:	3rd to 5th Digit	6th Digit	7th to 9th Digit
C = Coupler U = Union	N = NPT thread M = Metric thread)	Thread size (see table below)	N = NPT thread M = Metric thread	Thread size (see table below) Followed by "E-MNA"

NPT Code	Thread Size
012	½"
034	¾"
001	1"
114	1¼"
112	1½"
002	2"
212	2½"
003	3"
312	3½"
004	4"

Metric Code	Thread Size
020	M20
025	M25
032	M32
040	M40
050	M50
063	M63
075	M75
080	M80
090	M90
100	M100
115	M115
130	M130

For example:-

CN012M025E-MNA is a Coupler with a ½" NPT male thread and an M25 male thread.
UM032N114E-MNA is a Union with an M32 female thread and a 1¼" NPT female thread.

(Note that the thread sizes can be the same or up to two standard thread sizes different.)

Fitting Instructions

Couplers / Unions with NPT threads should be tightened wrench tight. Couplers / Unions with metric threads should be tightened according to the table below.

Thread Size	Torque Nm	Thread Size	Torque Nm
M20	21	M75	72
M25	30	M80	80
M32	42	M90	89
M40	52	M100	98
M50	57	>M100	175
M63	66		