

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:	-20°C temperature range applies to Div. 1 & AEx / Ex db applications

Standards and Certifications

Type	Certificate	Protection Level
NEC / CEC:	E115595	Class I/II/III Div. 1,2; Class I, Zone 1; Zone 21 AEx / Ex db IIC Gb, AEx/ Ex eb IIC Gb, Ex ta IIIC Da

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. Suitable for use in indoor and outdoor locations.
3. 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	Metric Code	Thread Size
012	½"	020	M20
034	¾"	025	M25
001	1"	032	M32
114	1¼"	040	M40
112	1½"	050	M50
002	2"	063	M63
212	2½"	075	M75
003	3"	080	M80
312	3½"	090	M90
004	4"	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 / lb ft	Thread Size	Torque Nm / lb ft
M20	21 / 16	M75	72 / 53
M25	30 / 22	M80	80 / 59
M32	42 / 31	M90	89 / 66
M40	52 / 38	M100	98 / 72
M50	57 / 42	>M100	175 / 129
M63	66 / 49		