

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa14ATEX0192U**

4 Component: **Type FG212474 Union Fitting**

5 Manufacturer: **Minco Products, Inc**

6 Address: **7300 Commerce Lane, Minneapolis, MN 55432 USA**

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR13.0185/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012

EN 60079-1: 2007

EN 60079-7: 2007

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified Component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

12 The marking of the component shall include the following :

⊕ II 2 G Ex db IIC Ex eb IIC (-40°C to +90°C)

Baseefa Customer Reference No. **7357**

Project File No. **13/0352**

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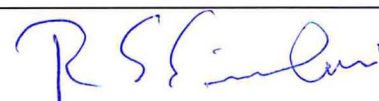
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**R S SINCLAIR
GENERAL MANAGER**

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa04ATEX0192U

15 Description of Component

The Type FG212474 threaded union has male 'process thread' sizes of 7/8" UNF, M20, 1/2" NPT and 3/4" NPT and female 'connection thread' sizes of 1/2" NPT, 3/4" NPT and M20. The union assembly is intended for inline connection into a flameproof enclosure or fitting having male or female threads.

The union assembly is manufactured from stainless steel in grades 303 or 316 and comprise of three individual component parts together with two locking set screws. The three parts are all coaxially threaded and are identified as the 'male adaptor', which has the male 'process thread' on one end and a male collar thread and serrated flame path on the other, the 'female flange' which has the female 'connection thread' and a corresponding serrated flamepath and finally the threaded collar. The male adaptor and female flange are held together by the threaded collar. Once assembled in the desired position the threaded collar is locked in position, against removal or vibration, by the locking set screws which are threaded radially into the collar at 180° PCD.

The serrated flamepath consist of a series of concentric, triangle section, grooves machined normal to the axis of the main component parts.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR13.0185/00

17 Schedule of Limitations

1. The Type FG212474 Union when used in flameproof applications must not be closed with a flameproof stopping plug.
2. The 'male adaptor' has the option of two parallel 'process thread' options (metric and UNF) which have a 3.5 mm (maximum) undercut at the base of the entry thread and therefore must only be fitted into a flameproof enclosure with entries having a minimum of 14mm full thread form measured from the external surface.
3. As an alternative to condition 2, the flameproof gland must be fitted with a non-detachable, non-compressible washer having a minimum thickness of 2mm between the head of the gland and enclosure.
4. With 'process' or 'connection' threads are of parallel thread form additional measure must be taken to seal the threads in order to maintain the union's IP65 rating.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
B212402	-	08-14-14	FINAL ASSEMBLY AND MARKING UNION ASSEMBLY
B212403	-	03-13-14	MALE ADAPTER UNION ASSEMBLY (PURCHASED)
B212404	-	02-12-14	COLLAR UNION ASSEMBLY (PURCHASED)
B212405	-	02-04-14	FEMALE FLANGE UNION ASSEMBLY (PURCHASED)
B213065	-	02-12-14	UNION ASSEMBLY ATEX/IECEX Ex d Ex e APPROVAL

The above drawings are common to Baseefa14ATEX0192U and IECEX BAS 13.0085U and are held with the latter.