



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CSAE 24.0020X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-08-12		
Applicant:	Haskel Europe Ltd. North Hylton Road Sunderland, Durham SR5 3JD United Kingdom		
Equipment:	Range of Gas Boosters AGD-14 / AGD-62 / AGD-152		
Optional accessory:			
Type of Protection:	Non electrical type of protection "h"		
Marking:	Ex h IIC T3 Gb Ta = -29°C to +40°C		

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Haskel International, LLC**
100 East Graham Place
Burbank CA 91502
United States of America

Manufacturing
locations: **Haskel International, LLC**
100 East Graham Place
Burbank CA 91502
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

ISO 80079-36:2016 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition: 1.0

ISO 80079-37:2016 Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
Edition: 1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CSAE/ExTR23.0041/00](#)

Quality Assessment Report:

[GB/CSAE/QAR24.0009/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Gas Boosters These consist of the following models:

AGD: Single Stage, Double Acting

Double Air Barrel

AGD-14, AGD-62, AGD-152

They consist of two sections, one air (drive medium) and the other gas (pressurised medium).

These work on an automatic reciprocating differential area principle that uses a large area air drive piston connected to a smaller area gas piston/plunger to convert compressed air power into compressed gas power. Each Gas Booster consists of a large area reciprocating air drive piston directly coupled by a connecting rod to a small area gas piston. The gas piston operates in a high-pressure gas barrel section. Each gas barrel end cap contains high pressure inlet and outlet check valves. The air drive section includes a cycling spool and pilot valves that provide continuous reciprocating action when air is supplied to the air drive inlet. Isolation of the gas compression chamber from the air drive section is provided by three sets of dynamic seals. The intervening two chambers are vented to atmosphere. This design prevents air drive contamination from entering the gas stream. Cooling is provided by routing the cold exhaust drive air through an individual jacket surrounding each gas barrel.

Gas Boosters Model Letter Coding: **-AGD-14-C

Nominal dia. of air drive piston	Basic construction	Area Ratio	Controls Installed
**	AGD	14	C
inches (Note: 5-3/4" if not shown)	AGD: Double acting pump action, single stage driven with single or double ended drive.	Nominal	As applicable

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The maximum operating air temperature shall be limited to 40°C at the Gas Booster.
2. The maximum temperature range of the pumped gas/air shall be between -29°C and 40°C.
3. The Gas Booster compression ratio shall never be allowed to exceed the following:

Model letter ref. relating to area ratio	Compression ratio
-1 to -15	5:1
-62	9:1
-152	20:1