

1 EC-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 94/9/EC

3 EC-Type Examination Certificate No: FM12ATEX0068

4 Equipment or protective system: Pro Xp 40, Pro Xp 60 and Pro Xp 85, Manual Applicators
(Type Reference and Name) Pro Xp 60 AA and Pro Xp 85 AA, Manual Applicators

5 Name of Applicant: Graco Inc.

6 Address of Applicant: 88 11th Ave NE
Minneapolis MN 55413
United States of America

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3043787 dated 10 October 2012

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 50050: 2006

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 2 G EEx 0.24mJ T6

Mick Gower
Certification Manager, FM Approvals Ltd.

Issue date: 15th October 2012

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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13 Description of Equipment or Protective System:

The Pro Xp and Pro Xp AA Series Manual Applicators are used for paint finishing of electrically conductive parts by providing an air pressure atomized spray of electrically charged paint particles. The applicators are available in a "Standard" and "Smart" version. The "Smart" version includes an LED display for viewing output level and a membrane switch for setting the desired output level up to the maximum allowed for that version of applicator. Electrical energy to produce the high voltage output is derived from an internal air driven alternator, thereby removing the need for an external power source. The applicators require an air supply of 100 psi (7 bar) maximum, connected through the electrically conductive air supply hose to the inlet of the applicator for atomizing the finishing material, shaping the spray pattern, and developing the electrostatic high voltage energy. The applicators require the connection of the fluid hose and the conductive air hose for operation. The Pro Xp Series Applicators have a maximum working pressure for both fluid and air of 100 psi (7 bar). The Pro Xp AA Applicator models use a higher fluid pressure of 3000 psi (210 bar) to atomize the fluid as it flows through a small orifice in the spray tip.

Operation Temperature Ranges:

The ambient operating temperature range of the Pro Xp Series Applicators is 0°C to +50°C.

Output Voltage and Current:

Depending on model the output voltage is rated at 40 kV, 60 kV or 85 kV at 125 uA maximum.

Pro Xp 40, Pro Xp 60, Pro Xp 85 air-atomizing manual electrostatic spray applicators for Group II Category 2 for use in Gases (II 2 G) EEx 0.24mJ.

Applicator p/n's L40T10, L40T14, L40T15, L40T16, L60M10, L60M12, L60M16, L60T10, L60T11, L60T12, L60T16, L85M10, L85M16, L85T10 and L85T16.

Gray electrically conductive air supply hose p/n's 223068, 223069, 223070, 223071, 223072, 223073 and 223074 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m) and 100ft (30.5m) respectively.

Gray electrically conductive air supply hose p/n's 244963, 244964, 244965, 244966, 244967, 244968 and 244969 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m) and 100ft (30.5m) long respectively.

Red electrically conductive air supply hose p/n's 235068, 235069, 235070, 235071, 235072, 235073 and 235074 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m) and 100ft (30.5m) respectively.

Black electrically conductive air supply hose p/n's 24A225 and 24A226 in lengths of 50ft (15m) and 75ft (23m) respectively.

Accessory air caps p/n's 24N274, 24N275, 24N276, 24N277, 24N278, 24N279, 24N376, 24N438, 24N439, 24N453 and 24N477.

Accessory fluid nozzle p/n's 24N613, 24N614, 24N615, 24N616, 24N617, 24N618, 24N619, 24N620, 24N621, 24N622, 24N623, 24N624 and 24N625.

High wear electrode p/n 24N704.

Air inlet swivel p/n's 24N626 and 24N642.

Atomizing air valve p/n 24N636.

Air adapter nipple p/n 185493.

Air quick disconnect p/n 112534.

Non-swivel air inlet fitting p/n 185105.

Accessory metal trigger p/n 24P170.

Four finger trigger kit p/n 24P171.

Quick adjust fan valve p/n 24P172.

HC conversion kit p/n's 24N627, 24N628 and 24N629.

Handle grip p/n's 24N520 and 24N521.

Applicator and display cover p/n's 24N603, 24N604, and 24N758.

ES ON kit p/n 24P634.

Round spray kit p/n 24N318.

HC hose kit p/n 24N993 for use with Pro XP 60 airspray applicators.

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Pro Xp 60 AA and Pro Xp 85 AA air-assisted airless manual electrostatic spray applicators for Group II Category 2 for use in Gases (II 2 G) EEx 0.24mJ.

Applicator p/n's H60M10, H60T10, H85M10 and H85T10.

Gray electrically conductive air supply hose p/n's 223068, 223069, 223070, 223071, 223072, 223073 and 223074 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m) and 100ft (30.5m) respectively.

Gray electrically conductive air supply hose p/n's 244963, 244964, 244965, 244966, 244967, 244968 and 244969 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m) and 100ft (30.5m) respectively.

Red electrically conductive air supply hose p/n's 235068, 235069, 235070, 235071, 235072, 235073 and 235074 in lengths of 6ft (1.8m), 15ft (5m), 25ft (8m), 36ft (11m), 50ft (15m), 75ft (23m), and 100ft (30.5m) respectively.

Black electrically conductive air supply hose p/n's 24A225 and 24A226 in lengths of 50ft (15m) and 75ft (23m) respectively.

AEM and AEF spray tips p/n's AEM000 – AEM999 and AEF000 – AEF999.

Air inlet swivel p/n's 24N626 and 24N642.

Handle grip p/n's 24N520 and 24N521.

Air adapter nipple p/n 185493.

Air quick disconnect p/n 112534.

Non-swivel air inlet fitting p/n 185105.

Accessory metal trigger p/n 24P170.

Quick adjust fan valve p/n 24P172.

Red electrically conductive air whip hose p/n's 236130 and 236131.

Applicator and display cover p/n's 24N603, 24N604, and 24N758.

ES ON kit p/n 24P635.

Round spray nozzle p/n 24N319.

14 **Special Conditions for Safe Use:**

'None'

15 **Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 **Test and Assessment Procedure and Conditions:**

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

17 **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
15 th October 2012	Original Issue.

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Blueprint Report

Graco Inc (1000004366)

Class No 7261

Original Project I.D. 3043787

Certificate I.D. FM12ATEX0068

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
24P650	A	DOCUMENT, FM CONTROL DRAWING, PRO XP	3042787	Yes (pdf)
3A2494A	A	INSTRUCTION MANUAL - PRO XP ELECTROSTATIC AIR SPRAY GUN	3042787	Yes (pdf)
3A2495A	A	INSTRUCTION MANUAL - PRO XP ELECTROSTATIC AIR-ASSIST SPRAY GUN	3042787	Yes (pdf)