

XM PFP for Explosive Atmospheres



Epoxy Intumescent Fireproofing Sprayer



PROVEN QUALITY. LEADING TECHNOLOGY.

Technology that Delivers Peace of Mind

A fully approved system for explosive atmospheres

When you're applying fireproofing materials in potentially explosive environments, it is critical that your application equipment is designed properly. In fact, it is probably required that your equipment is inspected and approved for use in explosive atmospheres.

Designed for the application of epoxy intumescent fire protection coatings, the Graco XM[®] PFP Sprayer **is the first and only complete system that is ATEX and IECEx certified for use in explosive atmospheres; it is rated for both electrical and mechanical construction.** So whether it's offshore refineries, liquid natural gas facilities, petrochemical plants or industrial manufacturing facilities, you can trust Graco equipment for application of passive fire protection.





A Fully Approved System

IECEX and ATEX approved

The XM PFP meets requirements for equipment intended for use in explosive atmospheres by IECEX and ATEX (European), both globally recognized organizations.

Intertek approved

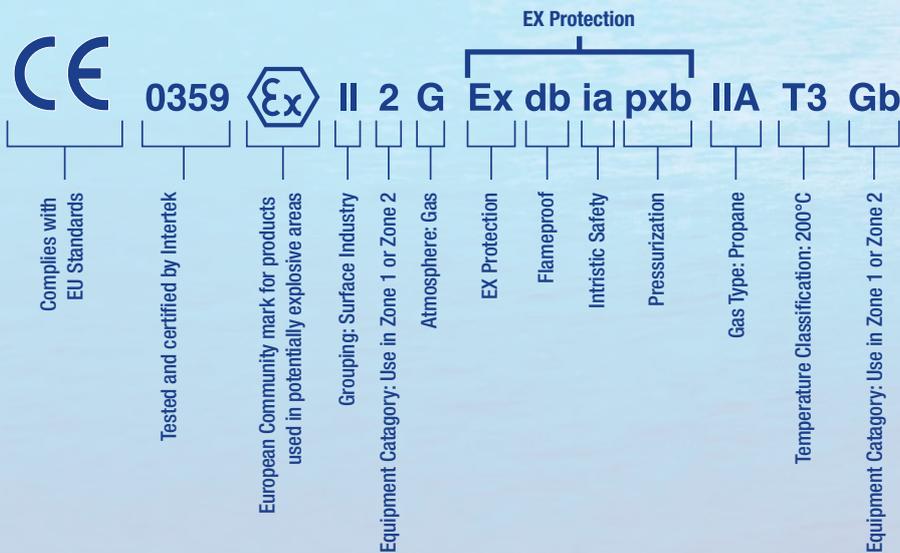
Intertek, a multinational inspection, product testing and certification company headquartered in London, has given the XM PFP a top-level system approval for explosive atmospheres. This third party approval provides you with additional peace of mind.

No red tape, less hassle with site inspections

With an approved explosive atmosphere rating for both electrical and mechanical construction from IECEX and ATEX, you have the confidence that the entire system is approved. With competitive units, individual components may be approved for explosive atmospheres, but not the system as a whole. The approval code on the XM PFP tells inspectors that your system is fully approved and rated for explosive atmospheres. Full system approval eliminates the risk and expense of third-party on-site approvals required for electrical design.

Understanding the label

The Graco XM PFP is ATEX and IECEX certified for use in explosive atmospheres (ITS15ATEX18241X; IECEX ETL 15.0020X). The following markings appear on its nameplate.



Log on to iecex.iec.ch/iecex/iecexweb.nsf and type in certificate number, IECEX ETL 15.0020X, to view certificate.





Explosive Atmosphere XM PFP

Intuitive User Controls

- Displays ratio readings in real time for ultimate spraying control
- USB drive for data reporting
- Displays current tank levels and spray temperatures

Check-Mate® Feed System

- Proven Graco supply system – 20 litre (5-gal) pail

Intrinsically Safe Level Sensors

- Automatically refills tanks when material reaches a certain level

Explosion-proof Electrical Connection

- Approved, on-board incoming power connection



Purge-controlled Electrical Enclosure

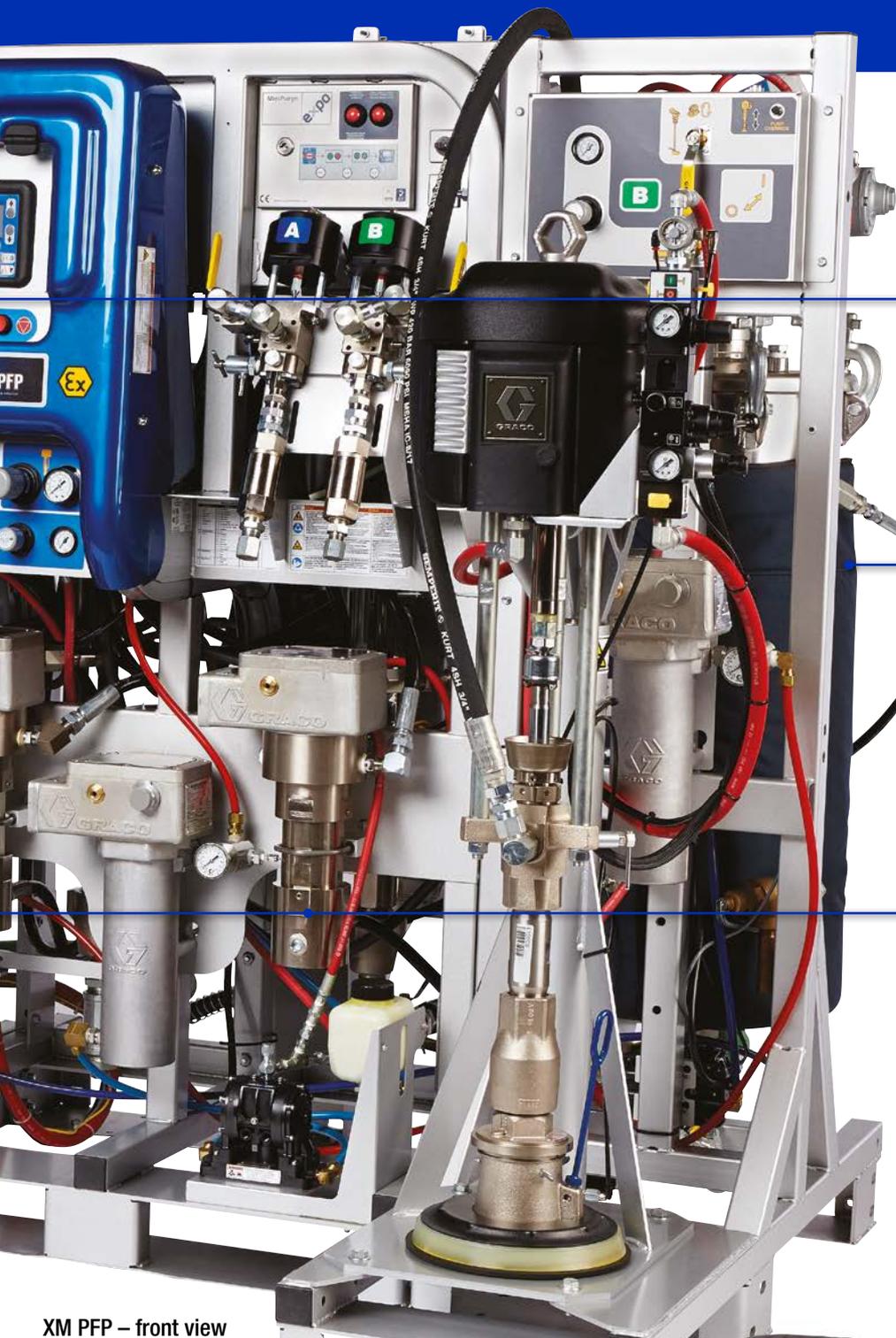
- System automatically shuts down on loss of purge pressure

Hot Water Flush Kit (included)

- Up to 82°C (180°F) max flush temperature
- Auto fill with water line connection
- 37.8 litre (10-gal) tank capacity



XM PFP – back view



XM PFP – front view

Heat Control

- Easy to use “set and forget” temperature controls
- Maintains consistent temperatures for primary A & B heaters and heated hose
- Helps prevent overheating of temperature sensitive materials

Heated Pressure Pots

- Uses circulating water for maximum heat transfer
- Conditions and feeds material into proportioner
 - 76 litre (20-gal)

Viscon® HF Heaters

- Explosion proof
- Supports high production rates
- 5400 W - high efficiency core
 - Cleanable design
- Set and forget fluid temperature

Heated Hose Set

- Set-and-forget hose temperature
- Heated mix manifold
- Provides faster spray pattern and reduced waste



Technology that Boosts Productivity

Weight-based operation for fast, easy ratio assurance

The XM PFP takes the guesswork out of ratio assurance. That's because you set the ratio by weight and check it by weight as well.

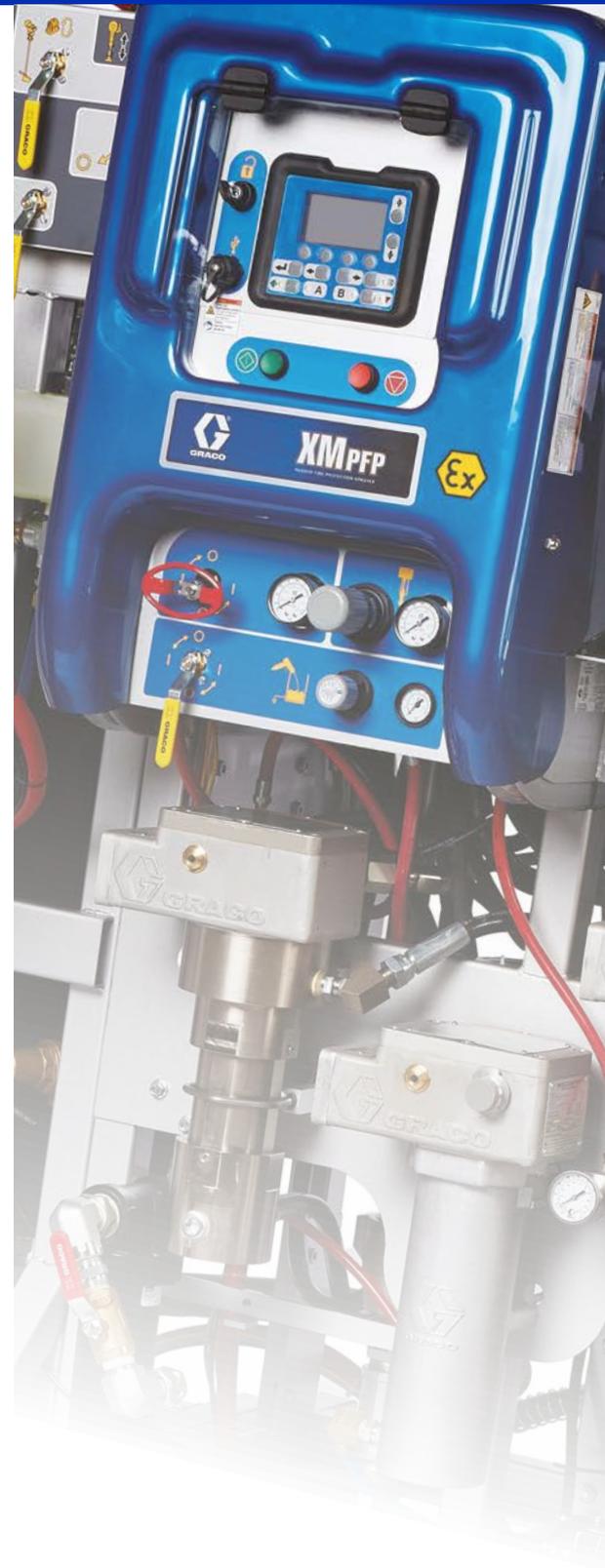
A simple calibration process programs the machine for the specific materials being used. **The machine sprays and displays the true weight ratio of the material as the chemical manufacturer intended.** The XM PFP's precise metering method is impervious to changes in material compressibility – **no more tank pressure or temperature tweaking for accurate weight checks.**



Save time with fast ratio checks – less than 90 seconds

Once the machine is calibrated, you can run repeatable test samples regardless of changes in tank pressures or temperatures and pass ratio checks every time. This process is fast and can be completed in 90 seconds or less, giving you more uptime and improving productivity.

To see the ratio check in action go to www.graco.com/xmpfp.



Consistent temperature control

The XM PFP Sprayer maintains temperature set points of the hose and materials – no more heater adjustments and no more material charring due to overheating. Closed-loop technology adjusts the heaters to achieve optimum spray performance even in the most extreme conditions.



Easy user controls

The intuitive user interface provides two display modes: “setup” for entering parameters and “run” for operation. The user interface monitors and tracks mix ratio, pressure, temperatures and flow, and allows you to program maintenance schedules. The controls shut down the system if off-ratio conditions exist.

The user interface also lets you track fluid supply and spray parameters:

- Monitor the temperatures of supply tanks, fluid heaters and hose heating
- Set temperatures for A and B materials and hose
- Set and monitor tank levels, turn automatic tank filling on and off

Data reporting - for confidence the job was done right

Project data such as spray pressures, temperatures, actual ratio and total flow output can be saved on a flash drive. With this data, you can verify that materials were sprayed at the proper ratio and according to the requirements set by the coatings manufacturer.



Technical Specifications

MODEL	XM PFP
Mix Ratio Range	1:1 - 4:1 (In 0.01 increments)
Ratio Tolerance Range (before alarm)	± 5%
Max Flow Rate	11.4 lpm (3 gpm)
Fluid to Air Pressure Ratio	60:1
Fluid Viscosity Range	Handles mastic materials which are loaded into heated tanks with ram-fed priming piston pumps
Air Inlet	1" NPT(F)
Fluid Inlets	Ram plate fed pail pumps
Max Fluid Working Pressure of mixed material	414 bar (6000 psi, 41.4 MPa)
Max Fluid Temp	70°C (160°F)
Incoming Air Supply Pressure Range	5.5-10.3 bar (80-150 psi, 0.5-1.0 MPa)
Max Pump Air Set Pressure	7 bar (100 psi, 0.7 MPa)
Max Tank Pressure	7 bar (100 psi, 0.7 MPa)
Max Air Consumption	5 m ³ /min (175 scfm)
Air Filtration	40 micron main filter, 5 micron control filter, 3 micron purge controller filter
Ambient Operating Temp Range	0° - 54°C (32° - 130°F)
Ambient Storage Temp Range	-1° - 71°C (30° - 160°F)
Environmental Conditions Rating	Altitude up to 4000 m (13.123 ft)
Sound Pressure	86 dBA at 100 psi
Sound Power	98 dBA at 100 psi
Weight	987 kg (2175 lb)

POWER REQUIREMENTS

Voltage (Jumper selectable)	Option 1: 200-240V, 3-ph delta (3 wires plus ground) Option 2: 350-415V, 3-ph wye (4 wire including neutral plus ground)
Wattage	18.900 W
Amps	200 – 240V, 3-ph delta: 63 amps per phase full load 350 – 415V, 3-ph wye: 40 amps per phase full load

WETTED PARTS

Suction Tube (flush)	Aluminum
Tanks	Stainless steel
Flush Pump	Carbide, PTFE, stainless steel, UHMWPE
Hoses	Nylon
Pumps (A, B and feed pail)	Carbon steel, alloy steel, 303, 440, 17-PH grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE
Metering Valves	Carbon steel, nickel plating, carbide, polyethylene, leather
Manifold	Carbon steel, nickel plating, carbide, 302 stainless steel, PTFE, UHMWPE
Mixer	Stainless steel housing with stainless elements

APPROVALS

Machine	CE, ATEX, IECEx
Certificate Numbers	ATEX: ITS15ATEX18241X; IECEx: IECEx ETL 15.0020X
Pressure Tanks	ASME, CE (steel grade stamped on tanks)
Manuals	3A2776

Ordering Information

Complete XM PFP System for Explosive Atmospheres

262943	Includes base XM PFP with 15m (50 ft) dual (¾" x ½ ") heated hose, mix manifold, 5m (17 ft) static mix line, 30:1 flush pump, XHF Gun with 429 tip. Includes two Check-Mate® 76 L (20-gal) heated feed modules with agitators and level sensors.
262945	Includes base XM PFP with 15m (50ft) dual (¾" x ¾ ") heated hose, mix manifold, 5m (17 ft) static mix line, 30:1 flush pump, XHF Gun with 429 tip. Includes two Check-Mate® 76 L (20-gal) heated feed modules with agitators and level sensors.

Supply Processing Equipment

24X090	Level sensor kit. Replacement for XM PFP heated tanks.
24T761	Husky™ 205 hot water circulation pump for tanks or heated hose
262896	Tank dryer kit. Provides additional filtration and moisture control for heated tanks.
24P899	XM PFP main line air filter kit (1¼" NPT)

Hoses and Guns

16T122	Heated hose bundle. Includes 15m, 50 ft (¾" x ¾"), 448 bar (6500 psi / 44.8 MPa) fluid hoses; ¼" 310 bar (4500 psi / 31.0 MPa) flush hose; and four ½" heat tubes. Includes scuff guard.
16T121	Heated hose bundle. Includes 15m, 50 ft (¾" x ½"), 448 bar (6500 psi, 44.8 MPa) fluid hoses; ¼" 310 bar (4500 psi / 31.0 MPa) flush hose; and four ½" heat tubes. Includes scuff guard.
16T316	Static mixer assembly, 12 element, SST, ¾", connection ½" NPT(m)
24P886	Mix element replacement, SST
262890	XM PFP mix manifold with ball valves and check valves, 414 bar (6000 psi / 41.4 MPa)
237260	XHF Gun repair kit
24P833	XM PFP Gun and mix line kit, 5.8m (19 ft); includes static mixer - (mix manifold outlet to gun)
H67550	Hose, ¾" ID x 15m (50 ft), ¾" NPSM (fbc), 448 bar (6500 psi / 44.8 MPa) nylon core
H75050	Hose, ½" ID x 15m (50 ft), ½" NPSM (fbc), 500 bar (7250 psi / 50 MPa) nylon core
H75025	Hose, ½" ID x 7.6m (25 ft), ½" NPSM (fbc), 500 bar (7250 psi / 50 MPa) nylon core
262854	XHF Gun, includes XHD 429 tip
24P834	XHF Gun swivel, ½" f x 3/8 NPSM, PTFE packing, 448 bar (6500 psi / 44.8 MPa)

Accessories

16T481	Check valve, ¾" NPT (FBE), 500 bar (7250 psi / 50 MPa)
24X113	Hot water flush kit, 180°F (82°C) with auto fill and temperature control (included with 262943 and 262945)
255478	Metering valve, A or B replacement valve
262872	XM PFP sampling valve. Used for weight ratio checks.
24P268	Ball valve, ¾" NPT, 6000 psi (414 bar/41.4 MPa)
L220C9	XM PFP lower replacement, 220 cc, X-Tuff™ (repair kit 262793)
L180C9	XM PFP lower replacement, 180 cc, X-Tuff (repair kit 262792)



ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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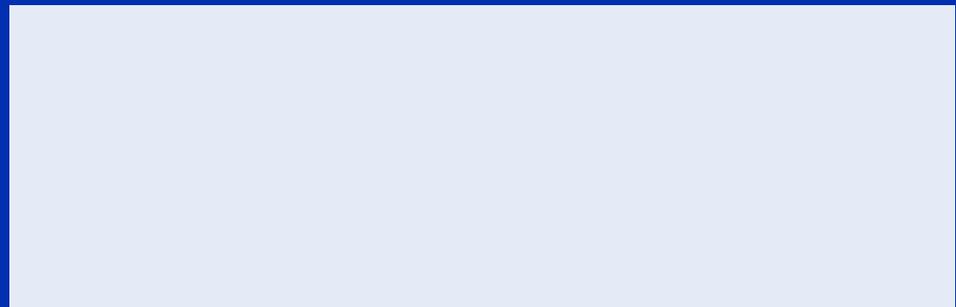
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All written and visual data contained in this document is based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.



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