

PFP SPRAYERS

Solutions for Epoxy Intumescent Fireproofing Materials



M O V I N G M A T E R I A L S T H A T M A T T E R ™

FIREPROOFING SAVES LIVES. GRACO SPRAYERS GET THE JOB DONE RIGHT.



WHEN MATERIAL IS THIS CRITICAL, RELY ON GRACO TO DELIVER PEACE OF MIND

When your project requires intumescent fireproofing, Graco has you covered. Our industry-leading passive fire protection (PFP) sprayers, the **Graco XM™ PFP Plural Component Sprayer** and the **Graco King XL PFP Sprayer™** can handle the most robust intumescent epoxies, have proven ratio assurance, maintain consistent temperature control and deliver the data that delivers peace of mind that the job is done right.

From small touchups to large steel tanks, from pipe racking to living quarters, from storage tanks to oil rigs, the Graco Sprayers are built to do it all. If it needs fireproofing, these are the tools to do it.

Graco sprayers make the critical job of fireproofing easier, faster and more precise, giving you the confidence that the job was done right and the productivity to do more.

GRACO XM™ PFP PLURAL-COMPONENT SPRAYER

Graco's powerful fireproofing sprayers can handle some of the most robust intumescent epoxies and are built to perform in harsh environments.

Here's more of what makes the Graco XM PF Plural-Component Sprayer stand out:

- Handles two-part materials from 1:1 to 10:1
- Provides precise ratio control within $\pm 5\%$
- Ensures accurate, on-ratio mixing to reduce material waste
- Virtually eliminates the difficult task of removing material that is improperly proportioned
- Fast startup times due to performance of heating system

APPLICATIONS

- Pipe racking
- Structural steel
- Storage tanks
- Onshore and offshore oil rigs
- Living quarters



GET SERIOUS WITH GRACO TECHNOLOGY

PROVEN RATIO ASSURANCE

Simply enter the mix ratios into the control panel. If off-ratio conditions should occur, the system will stop production, preventing any off-ratio material from reaching your project.

DATA REPORTING – FOR CONFIDENCE THE JOB WAS DONE RIGHT

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

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 in the most extreme conditions.

XM™ PFP

TECHNOLOGY THAT BOOSTS PRODUCTIVITY

XM PFP SPRAYER

Designed for the application of epoxy intumescent fire protection coatings, the Graco XM PFP is the first and only system that is ATEX and IECEx certified for use in explosive atmospheres; it is rated for both electrical and mechanical construction.

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
- 20l (5-gal) pail

Heat Control

- Easy to use "set and forget" temperature controls
- Maintains a consistent temperature on five heat zones (A and B material, hose and pressure pots)

Viscon HF Heater

- Supports high production rates
- 5400 watts - high efficiency core
- Quick break down design allows for ease of cleaning
- Set and forget fluid temperature control

Heated Hose Set

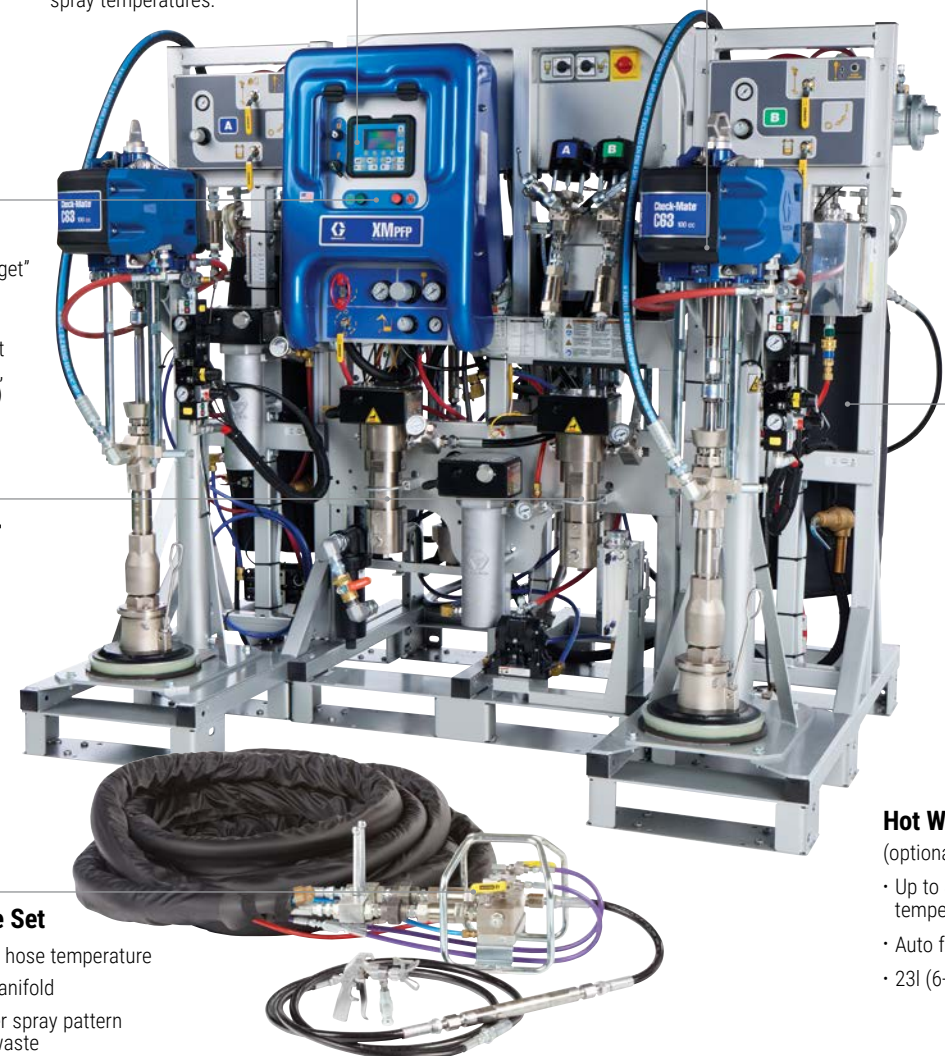
- Set and forget hose temperature
- Heated mix manifold
- Provides faster spray pattern and reduced waste

Heated Pressure Pots

- Circulates water for better heat transfer
- 76l (20 gal)

Hot Water Flush Kit (optional kit)

- Up to 82°C (180°F) max flush temperature
- Auto fill with water line connection
- 23l (6-gal) tank capacity





AN EASIER WAY TO TAKE CONTROL

The intuitive user interface provides two display modes: "setup" for entering parameters and a "run" mode for operation. The user interface monitors and tracks mix ratio, pressure, temperature and flow, and allows you to program maintenance schedules. It shuts down the system if off-ratio conditions exist, and with its USB port, you can download historical spraying data.

SIMPLIFY THE RATIO CHECKING PROCESS

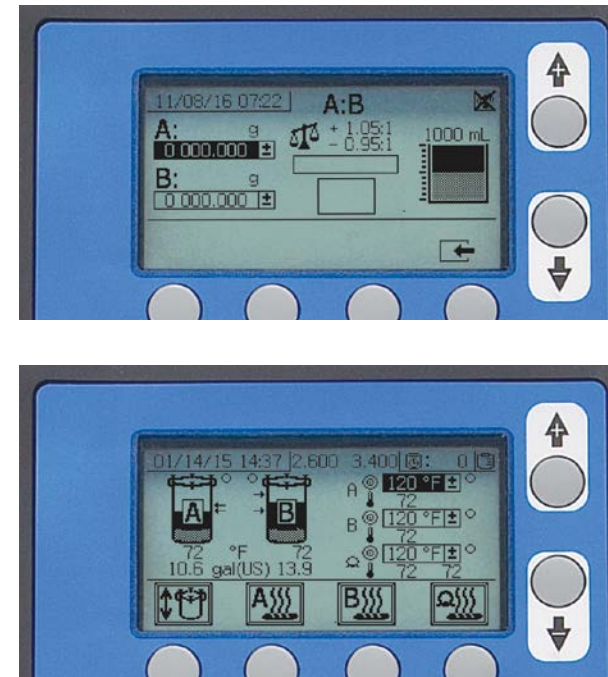
The ratio checking process for epoxy intumescent is important and documentation is often required. With the XM PFP's controls, it's easy to make sure your material is on ratio.

1. Initiate ratio check process on the machine controls
2. Operator dispenses A and B materials into test beakers, and weighs samples
3. Operator enters A and B weights on the control screen
4. Control screen provides "Pass" or "Fail" message, and logs the results in the USB data.

The user interface also lets you keep track of your fluid supply and spray parameters.

You can:

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



GRACO XHF™ SPRAY GUN

- High-flow, high pressure gun
- Easily handles high-viscosity coatings, fiber filled materials and epoxy intumescent materials
- Reduced clogging means more uptime
- Rated to 500 bar (7250 psi, 50 MPa)



XHF Gun
262854

KING PFP

REDUCE DOWNTIME AND BOOST PRODUCTIVITY WITH EASY MAINTENANCE AND REPAIR

KING PFP SPRAYER

Ideal for spraying hot-potted PFP epoxies, the King XL PFP Sprayer is easy to clean with its quick knock-down, double-ball pump.

Here's more of what makes the King PFP Sprayer stand out:

XL10000 13 Inch Air Motor

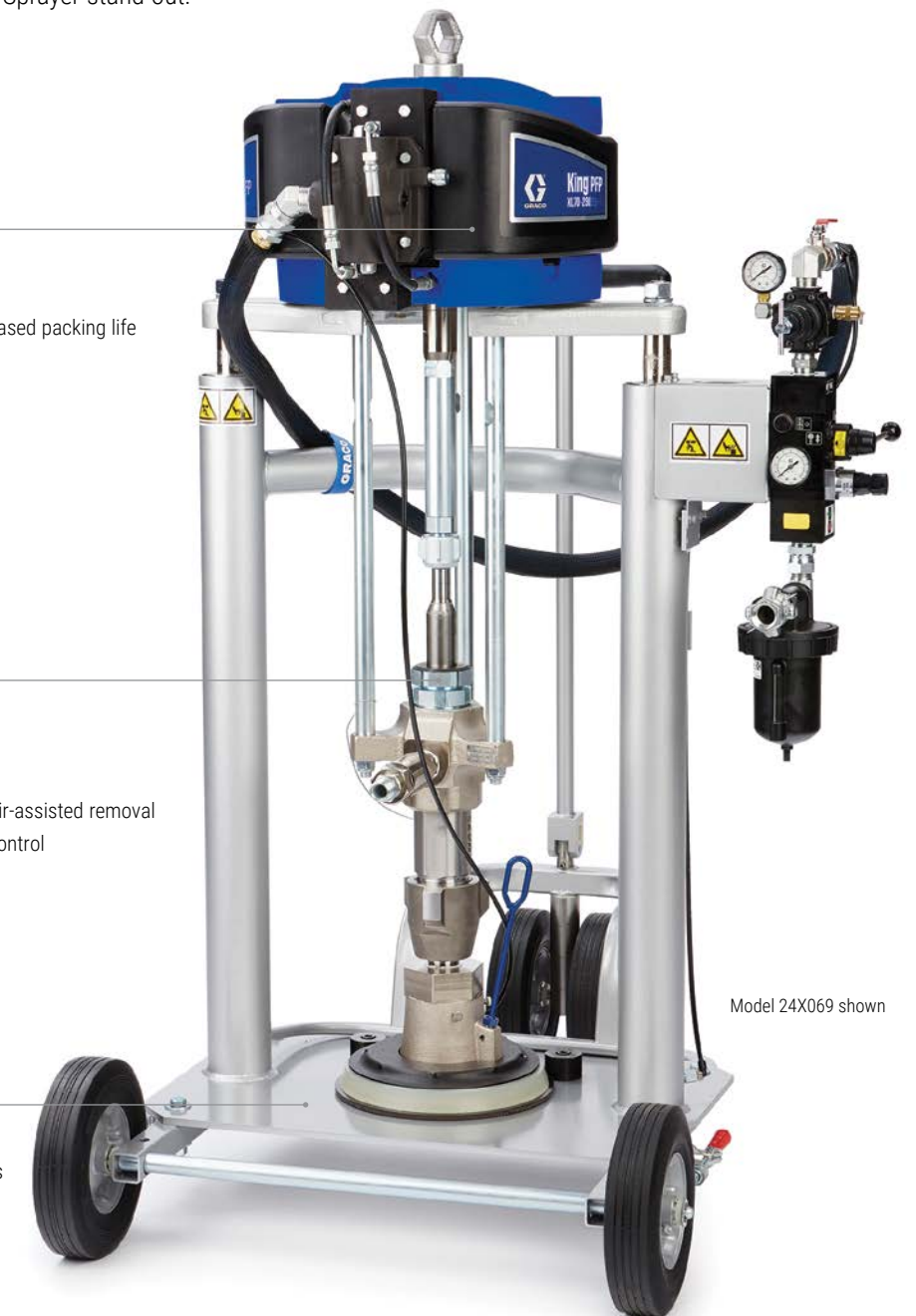
- Largest air motor in its class
- Reduces pump duty cycle for increased packing life

Handles High-Viscosity Coatings

- 500 bar (7250 psi) working pressure
- Large inlet check with extended ball travel
- Pail ram plate with high down force and air-assisted removal
- Large outlet check for improved pattern control

Compact Cart-Mounted

- Heavy-duty cart withstands extreme conditions
- Easy handling for one person



Model 24X069 shown



TECHNICAL SPECIFICATIONS

ORDERING INFORMATION

		XM PFP	KING PFP XL70-290	KING PFP XL70-180
SPECIFICATIONS	Mix Ratio Range	1:1 - 10:1 (in 0.01 increments)	Hot Potted	Hot Potted
	Ratio Tolerance Range (before alarm)	+/- 5%	No Alarm	No Alarm
	Max Flow Rate	3 gpm (11.4 lpm)	4.6 gpm (17.4 lpm)	2.9 gpm (11 lpm)
	Fluid to Air Pressure Ratio	60:1	70:1	
	Fluid Viscosity Range	Handles mastic materials which are loaded into heated tanks with ram-fed priming piston pumps	Handles mastic materials of two parts (A and B) which are mixed then ram-fed	Handles mastic materials of two parts (A and B) which are mixed then ram-fed
	Air Inlet	1 in npt(f)	3/4 in npt(f)	3/4 in npt(f)
	Fluid Inlets	Ram plate fed pail pumps	Ram plate fed pail pump	Ram plate fed pail pump
	Max Fluid Working Pressure of Mixed Material	414 bar (6000 psi, 41.4 MPa)	500 bar (7250 psi, 50.0 MPa)	500 bar (7250 psi, 50.0 MPa)
	Max Fluid Temp	70°C (160°F)	Hot potted (depends on material)	Hot potted (depends on material)
	Incoming Air Supply Pressure Range	5.5-10.3 bar (80-150 psi, 0.5-1.0 MPa)	5.5-10.3 bar (80-150 psi, 0.5-1.0 MPa)	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)	7 bar (100 psi, 0.7 MPa)	7 bar (100 psi, 0.7 MPa)
	Max Tank Pressure	7 bar (100 psi, 0.7 MPa)	N/A	N/A
	Max Air Consumption	175 scfm (5 meter ³ /min)	175 scfm (5 meter ³ /min)	175 scfm (5 meter ³ /min)
	Air Filtration	40 micron main filter, 5 micron control filter	40 micron filter	40 micron filter
	Ambient Operating Temp Range	0° - 54°C (32° - 130°F)	0° - 54°C (32° - 130°F)	0° - 54°C (32° - 130°F)
	Ambient Storage Temp Range	-1° - 71°C (30° - 160°F)	1° - 30°C (34° - 86°F)	1° - 30°C (34° - 86°F)
	Environmental Conditions Rating	Altitude up to 4000 m (13,123 ft)	Altitude up to 4000 m (13,123 ft)	Altitude up to 4000 m (13,123 ft)
	Sound Pressure	86 dBA at 6.89 bar (100 psi)	86.8 dba at 6.89 bar (100 psi), 15 cycles/min	84.18 dba at 6.89 bar (100 psi), 15 cycles/min
	Sound Power	98 dBA at 6.89 bar (100 psi)	86 dBA at 6.89 bar (100 psi), 15 cycles/min	96 dBA at 6.89 bar (100 psi), 15 cycles/min
	Weight	987 kg (2175 lb)	178 kg (392 lb), includes cart	
POWER REQUIREMENTS	Voltage (Jumper Selectable)	Option 1: 220-240V, 3-ph (3 wire plus ground) Option 2: 380-400 DELTA, WYE, 3-ph (4 wire including neutral plus ground)	N/A	N/A
	Wattage	18,400 Watts (23,400 Watts with optional flush water heater)	N/A	N/A
	Amps	65 amps DELTA (38 amps WYE)	N/A	N/A
WETTED PARTS	Suction Tube (flush)	Aluminum	N/A	N/A
	Tanks	Stainless Steel	N/A	N/A
	Flush Pump	Carbide, PTFE, stainless steel, UHMWPE	N/A	N/A
	Hoses	Nylon	Nylon	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	Carbon steel, alloy steel, 304, 440, 17-ph grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE, leather	Carbon steel, alloy steel, 304, 440, 17-ph grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE, leather
	Metering Valves	Carbon steel, nickel plating, carbide, polyethylene, leather	N/A	N/A
	Manifold	Carbon steel, nickel plating, carbide, 302 stainless steel, PTFE, UHMWPE	N/A	N/A
	Mixer	Stainless steel housing with stainless elements	N/A	N/A
APPROVALS	Machine	CE, ETL to UL 499 and CSA 22.2	CE	CE
	Pressure Tanks	ASME, PED		
	Manuals	3A2776	3A2798	3A2798

PART NUMBER	DESCRIPTION
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PLURAL-COMPONENT SPRAYERS

262878	Base XM PFP. No feed modules or heated hose bundle. Base XM PFP includes: Viscon® HF primary heaters, Viscon HP with hose heat supply system, 30:1 Merkur® flush pump, PFP mix manifold, mixer, whip hoses and gun.
262869	Complete XM PFP System for 1.5:1 to 4:1 mix ratios. Includes base XM PFP with 15 m (50 ft) dual heated hose, mix manifold, 5 m (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.
262943	Complete XM PFP System for Explosive Atmospheres for 1.5:1 to 4:1 mix ratios. Includes base XM PFP with 15 m (50 ft) dual heated hose, mix manifold, 5 m (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	Complete XM PFP System for Explosive Atmospheres for 1:1 to 1.5:1 mix ratios. Includes base XM PFP with 15 m (50 ft) dual heated hose, mix manifold, 5 m (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.
24W626	Complete XM PFP System for 1:1 to 1.5:1 mix ratios. Includes base XM PFP with 15 m (50 ft) dual heated hose, mix manifold, 5 m (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.



262869

SINGLE-COMPONENT SPRAYERS

Includes 23 m (75 ft) spray line and XHF Gun with 429 tip.

16P957	King XL70-180 PFP, floor mount
16T311	King XL70-180 PFP, cart mount
24X068	King XL70-290 PFP floor Mount
24X069	King XL70-290 PFP cart Mount



16T311

SUPPLY PROCESSING EQUIPMENT

24P883	Heated Supply Module. Includes 40:1 Check-Mate, heated pressure tank, agitator, level sensor, and bottom outlet feed hose and connection.
24P884	Level sensor kit. Replacement for XM PFP heated tanks.
24P831	Level sensor probe replacement
16T525	Viscon LT heater for tank heat circulation, 1750 W
24P885	XM PFP feed module agitator
24P835	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 (1-1/4 in npt)
262853	Viscon HF heater kit, remote controlled. Not approved for use in explosive atmospheres.



262853

PART NUMBER	DESCRIPTION
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HOSES AND GUNS

16T122	Heated hose bundle, water-jacketed, 50 ft, 3/4 in x 1/2 in (15 m, 18 mm x 13 mm), 448 bar (6500 psi/44.8 MPa)
16T121	Heated hose bundle, water-jacketed, 50 ft, 3/4 in x 3/4 in (15 m, 18 mm x 18 mm), 448 bar (6500 psi/44.8 MPa)
16T316	Static mixer assembly, 12 element, SST
24P886	Mix element replacement, SST
262890	XM PFP mix manifold with ball valves and check valves, 414 bar (60000 psi/41.4 MPa)
237260	XHF Gun repair kit
24P832	King PFP Gun and mix line kit, 23 m (75 ft) – (single component pump to gun)
24P833	XM PFP Gun and mix line kit, 5 m (17 ft); includes static mixer – (mix manifold outlet to gun)
16T484	Hose, 19 mm (3/4 in) ID x 15 m (50 ft), 19 mm (3/4 in) npsm (fbe), 448 bar (6500 psi/44.8 MPa) nylon core
H75050	Hose, 13 mm (1/2 in) ID x 15 m (50 ft), 13 mm (1/2 in) npsm (fbe), 500 bar (7250 psi/50 MPa) nylon core
H75025	Hose, 13 mm (1/2 in) ID x 7.6 m (25 ft), 13 mm (1/2 in) npsm (fbe), 500 bar (7250 psi/50 MPa) nylon core
262854	XHF Gun, includes XHD 429 tip
24P834	XHF Gun swivel, 1/2 in f x 3/8 npsm, PTFE packing, 448 bar (6500 psi/44.8 MPa)



16T121



H75025



262854

ACCESSORIES

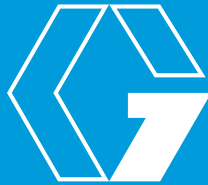
16T481	Check valve, 19 mm (3/4 in) npt (fbe), 500 bar (7250 psi/50 MPa)
24Y132	Hot water flush kit, 82°C (180°F) with auto fill and temperature control
255478	Dosing valve, A or B replacement valve
262872	XM PFP sampling valve. Used for weight ratio checks.
24P268	Ball valve, 19 mm (3/4 in) npt, 414 bar (60000 psi/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)
L180C7	Xtreme PFP lower replacement, 180 cc, Xtreme Seal (repair kit 24F969) (has inlet ball spacers in a different location)



L180C7



MOVING MATERIALS THAT MATTER™



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