



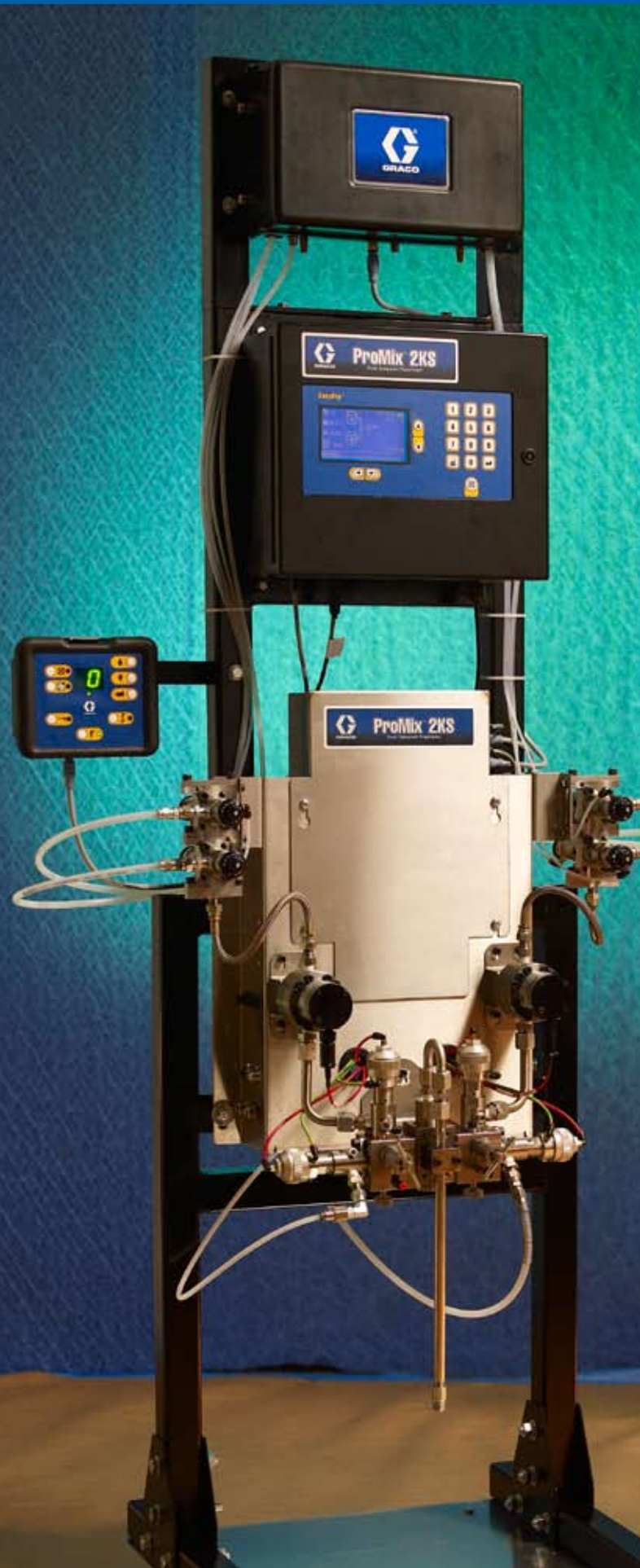
ProMix[®] 2KS

Two-Component Electronic Proportioning System



PROVEN QUALITY. LEADING TECHNOLOGY.

Increase Efficiency and Productivity



Introducing Graco's new line of electronic proportioners!

ProMix® 2KS offers precise and reliable electronic proportioning for a broad range of solventborne, waterborne, and acid catalyzed materials. From entry level to upgraded applications, the ProMix 2KS provides flexibility and increased efficiency. With outstanding performance in one easy-to-use design, let ProMix 2KS enhance your finishing operation today.

Features

- Manual and automatic configurations
- Intrinsically safe fluid panels allow easy hazardous area integration
- Single or multi-color and catalysts
- Accurate ratio assurance for superior finish quality
- Simple programming allows fast set up and efficient process control
- Advanced web interface provides consolidated system management and reporting

Key Materials

- Solventborne epoxies and polyurethanes
- Waterborne epoxies and polyurethanes
- Acid catalyzed materials

Why Electronic Proportioning?

- Offers the highest degree of ratio assurance
- Provides critical process variable feedback
- Built in system safeguards
- Effective color change solution
- Efficient material tracking and reporting

Three Systems in One

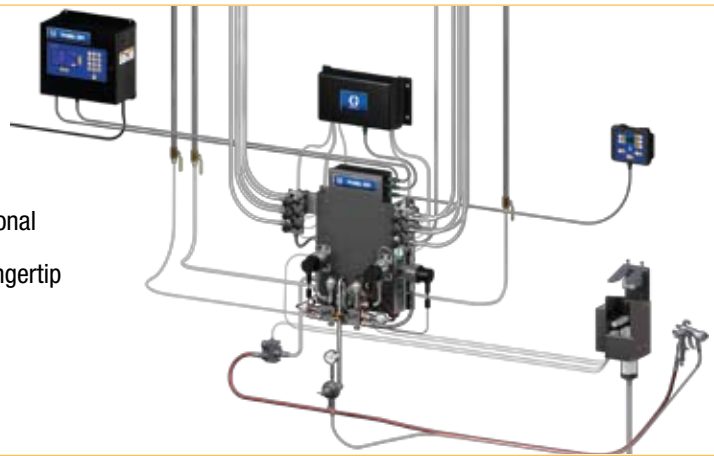
ProMix 2KS is available in a variety of system level configurations. Each one includes an EasyKey display along with a Smart Fluid Panel. Color and catalyst change is easily integrated with a plug-and-play control module and valves

Use up to 30 colors and 4 catalysts.

1

Manual Wall Panel

Manual systems benefit from an additional Remote Operator Station that allows fingertip control inside the spray booth.



2

Automatic Wall Panel

Optional flow control is cleanly integrated without incorporating a mixed material line meter. Pressure and flow loops provide fast step changes with superior closed loop control.



3

Automatic RoboMix Panel

This fluid panel can be easily integrated near the spray gun for a shorter mixed material line, faster color changes and less waste. Also available with flow control.



EasyKey™ Display

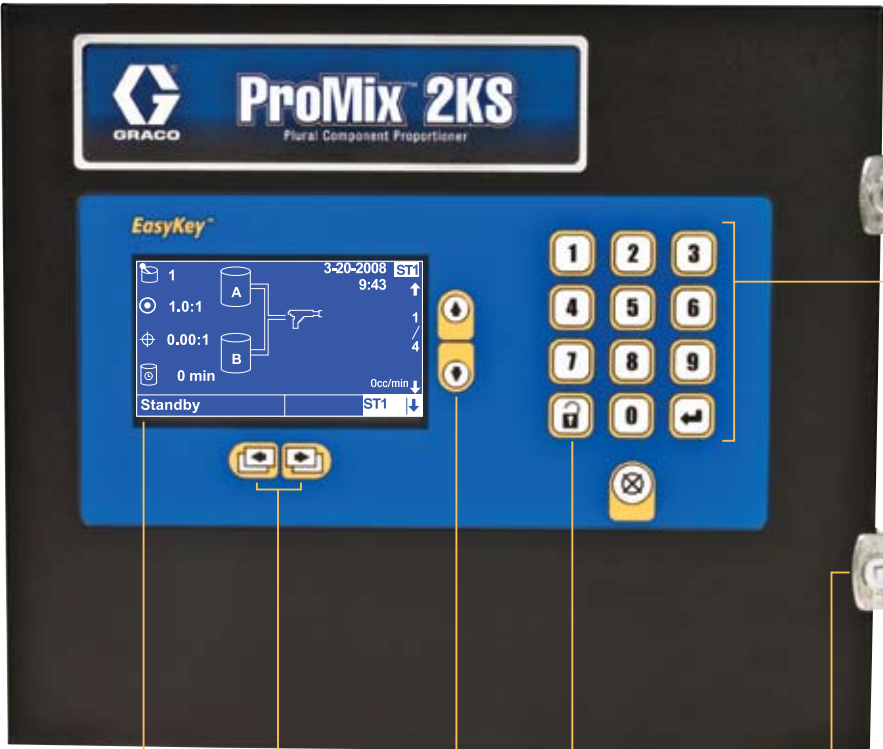


Easy Operation

The independent touch pad keeps contaminants off the screen while the large keys allow for easy data entry.

Graco's EasyKey user interface offers simple navigation, multiple language capabilities and a high degree of reliability. The large LCD display screen is simple to read and operate during machine set up and process monitoring.

EasyKey with Display



Independent Keypad

- Large LCD Display
- Left/Right Screen Toggle
- Up/Down Screen Toggle
- Password Protected System Set-Up
- Enclosure Access Key Lock

EasyKey without Display



Network multiple ProMix 2KS systems to a single EasyKey with display

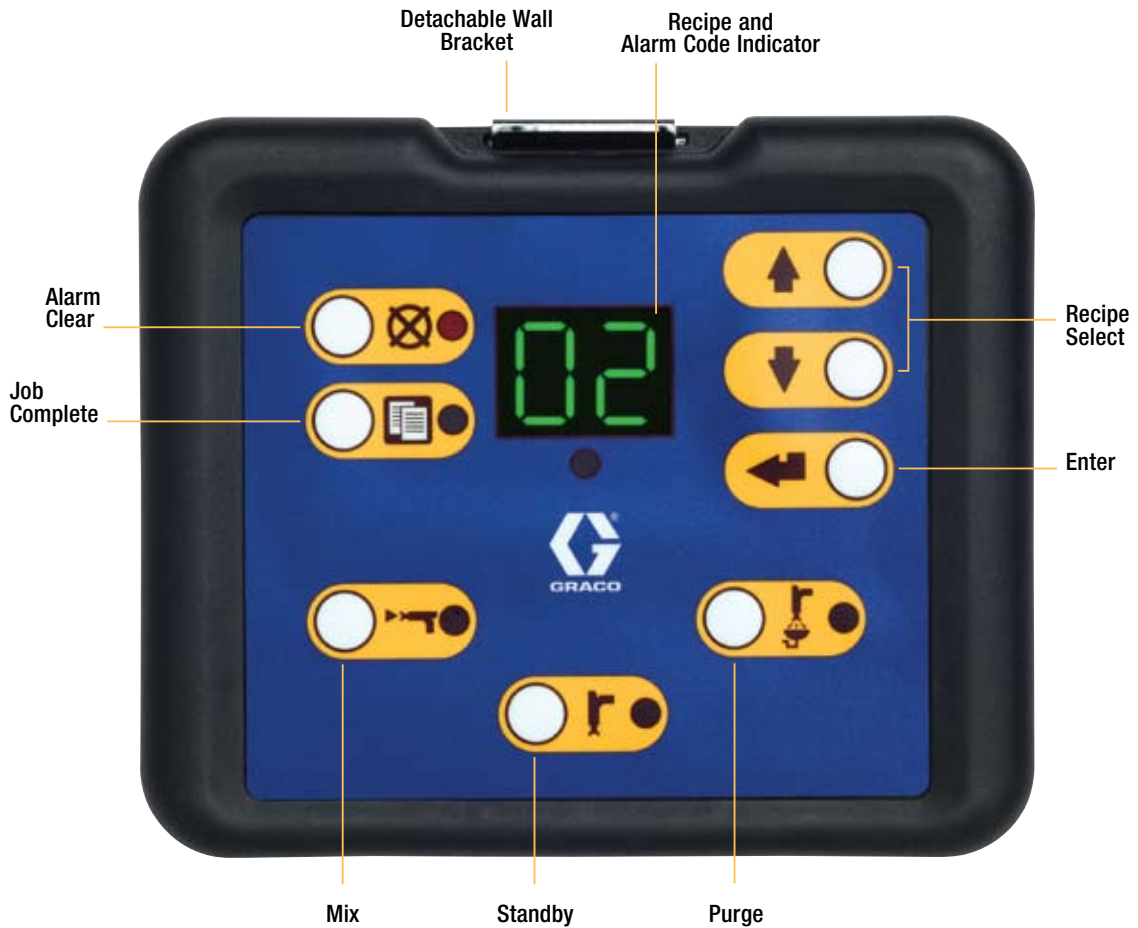
Remote Operator Station



Convenient Control

The remote operator station can be mounted inside the spray booth or near the operator for quicker response times. The station offers easy-to-use controls for mixing, standby, purging, reading/clearing alarms, inputting job complete and recipe select functions.

Perform all proportioning functions without leaving the spray booth.



Simplicity with Unmatched Functionality

Wall & RoboMix Fluid Panel Features

Productive Panels

Intrinsically safe fluid panels offer increased proportioning and flushing functionality, resulting in improved process performance.

Versatile Dosing

Multiple sequential dose sizes allow the system to meet a broad range of applications without sacrificing performance and quality. Dynamic dosing provides additional proportioning technology to meet unique applications needs.

On-Ratio Performance

Volume based dosing provides exceptional ratio accuracy across varying flow rates or gun triggering conditions. On-the-fly monitoring and compensation enhance performance and finish quality.

Consistent Mix Quality

Optimized mix chamber hardware, along with high-speed processors and dispense valves, generate precise performance and consistent, high quality mixed material.

Fast Color Change with Reduced Waste

New fluid manifold design reduces material volume and streamlines fluid porting for cleaner flushing. Manifold dump valves allow simultaneous purging and loading – reducing color change time and providing better waste containment.

Wall Panel

- Up to 30:1 mix ratio for a variety of applications
- Up to 4000 psi (275.6 bar) working pressure for single color and catalyst, supports all spray technologies
- Supports two manual spray guns and gun flush boxes

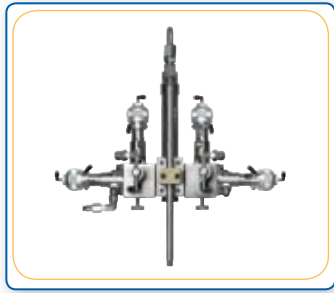


RoboMix

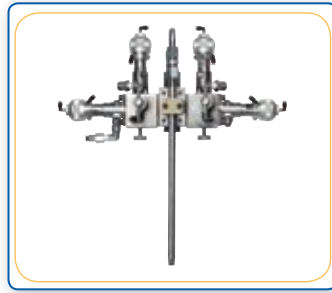
- Up to 30:1 mix ratio for a variety of applications
- Up to 250 psi (17.2 bar) working pressure
- Lightweight, compact design allows easier integration closer to the spray gun
- Can be interfaced with manual spray guns



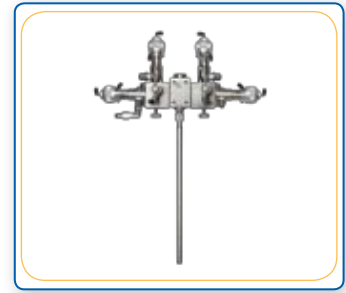
Fluid Manifold



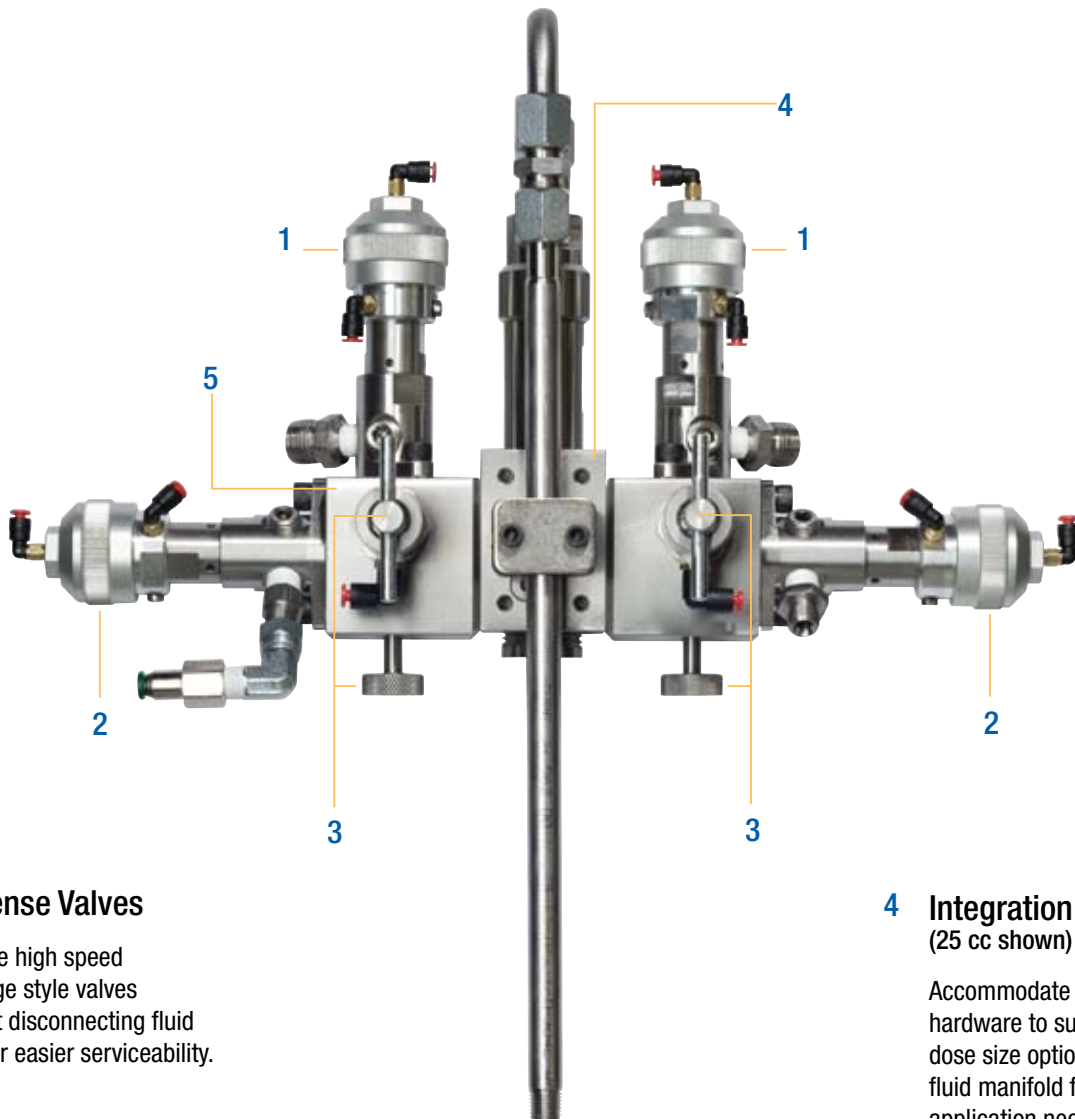
50 cc Integrator



10 cc Integrator



Dynamic Dosing



1 Dispense Valves

Remove high speed cartridge style valves without disconnecting fluid lines for easier serviceability.

2 Manifold Flush Valves

Flush mixed material without wasting premixed resin and catalyst. Add a third valve to the resin side for enhanced flushing, especially with waterborne materials.

3 Shutoff and Sample Valves

Ensure accurate volume measurements for meter calibrations and ratio checks with positive shutoff and convenient sampling.

4 Integration Chamber (25 cc shown)

Accommodate a wide range of hardware to support multiple dose size options. Optimizes fluid manifold for particular application needs.

5 Fluid Porting

Compact, low volume design with no material dead spots, provide faster flushing time and less waste.

Expanded Functionality

Complete Your System!

Today's demanding applications require more than just precise and reliable proportioning from a ProMix 2KS. Graco offers a variety of flow meter technologies and accessories that will further enhance your finishing operation.

Flow Meters

- Complete line of spur gear, helical gear, and non-intrusive Coriolis meters
- Supports a broad range of material types and physical characteristics



G3000 meter

Intrinsically Safe Color and Catalyst Change Module

- Provides easy and flexible installation without running long pneumatic lines
- Accommodates future color and catalyst needs with upgradable module



Coriolis meter

Gun Flush Box

- Automated flushing system for manual spray guns
- Eliminates manual gun triggering for more accurate flushing and filling, and less waste

Integrated Flow Control

- Eliminates a long pneumatic control line and associated lag with intrinsically safe control module
- Produces quick responses and superior process control with on-board electronics and control hardware
- Provides accurate and consistent flow control for increased material savings



Color Change Module

Advanced Web Interface

- Perform quick and easy system configuration and recipe set up
- Offers convenient process monitoring and streamlines data gathering and reporting
- Manages operations more efficiently by networking multiple ProMix 2KS systems to a single PC



Low Pressure Color Stack

Communication Gateway

- Provides network integration for automatic systems
- Offers integration flexibility with multiple protocol capabilities
- Reduces installation time with quick plug-and-play set up



Gun Flush Box



Regulator Module



Advanced Web Interface screen shot

Technical Specifications

Maximum working air pressure	125 psig (8.6 bar)
Air supply	70 to 125 psig (4.8 to 8.6 bar)
Air filtration	
Air logic (Graco supplied)	5 micron
Air purge (user supplied)	30 micron clean/dry
Air for atomizing (user supplied)	minimum of 30 micron clean/dry
Mix ratio range	
Sequential dosing	0.1:1 to 30:1
Dynamic dosing	0.1:1 to 30:1
Ratio accuracy	up to $\pm 1\%$ minimum (user selectable)
Fluids handled	one or two component: solvent and waterborne paints; polyurethanes; epoxies; acid catalyzed varnishes; moisture sensitive isocyanates
Fluid filtration	100 mesh min
Flow meters:	

METER	TYPE	MAX PRESSURE	FLOW RANGE	VISCOSITY
G250	Spur Gear	250 psi (17.2 bar)	75-3800 cc/min	20-3000 cps
G250HR	Spur Gear	250 psi (17.2 bar)	38-1900 cc/min	20-3000 cps
G3000	Spur Gear	4000 psi (275 bar)	75-3800 cc/min	20-3000 cps
G3000HR	Spur Gear	4000 psi (275 bar)	38-1900 cc/min	20-3000 cps
HG6000	Helical Gear	6000 psi (413 bar)	50-7500 cc/min	30-100,000 cps
1/8" Coriolis	Single Tube	2300 psi (158 bar)	20-3800 cc/min*	0.1-3000 cps
3/8" Coriolis	Single Tube	2300 psi (158 bar)	50-3800 cc/min	0.1-3000 cps
S3000 (Solvent Meter)	Oval Gear	4000 psi (275 bar)	100-4000 cc/min	0.5-1000 cps**

*Ratio and K-factor dependent

**No filled materials

Component working pressure

Wall fluid panel (no meters)	4000 psig (275 bar)
RoboMix fluid panel (G250 meters)	250 psig (17.2 bar)
Flow control regulator	200 psig (13 bar)
Low pressure color change valves	300 psig (20.6 bar)
High pressure color change valves	3000 psig (206.7 bar)
External power supply requirements	85-250 Vac, 50/60 Hz. 2 amps maximum draw, 15 amp maximum circuit breaker required, 8 to 14 AWG power supply wire gauge
Operating temperature range	41 to 122°F (5 to 50°C)

Noise level

Sound pressure level	below 70 dBA
Sound power level	below 85 dBA
Wetted parts	303 SST, 17-4 SST, PTFE, perfluoroelastomer, tungsten carbide with nickle binder

Weight

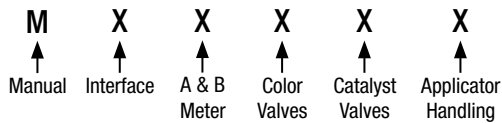
EasyKey display	21.75 lb (9.8 kg)
Remote operator station	0.95 lb (0.43 kg)
Wall fluid panel (no meters)	50 lb (22.7 kg)
RoboMix fluid panel (G250 meters included)	31.6 lb (14.3 kg)
Flow control regulator	4 lb (18.6 kg)

Approved for hazardous locations US and Canada - class 1 Div 1 Group D T3
 Europe - Zone 1 2A T3/ATEX 22 GT3

Environmental condition rating indoor use, pollution degree (2), installation category II

Ordering Information

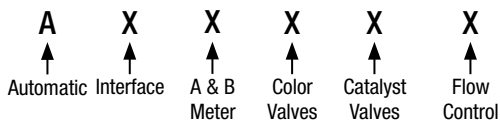
Manual Wall Panel



	Interface	A & B Meter	Color Valves*	Catalyst Valves	Applicator Handling
M	D = EasyKey with LCD Display E = Multi Fluid Station Control Box, No LCD Display	0 = No Meter 1 = G3000 A & B 2 = G3000HR A & B 3 = 1/8" Coriolis A & G3000 B 4 = G3000 A & 1/8" Coriolis B 5 = 1/8" Coriolis A & G3000HR B 6 = G3000HR A & 1/8" Coriolis B 7 = 1/8" Coriolis A & 1/8" Coriolis B	0 = No Valves (Single Color) 1 = 2 Colors LP 2 = 4 Colors LP 3 = 7 Colors LP 4 = 12 Colors LP 5 = 2 Colors HP 6 = 4 Colors HP	0 = No Valves (Single Catalyst) 1 = 2 Catalysts LP 2 = 4 Catalysts LP 3 = 2 Catalysts HP	1 = 1 AFS 2 = 2 AFS 3 = 1 AFS with 1 GFB 4 = 2 AFS with 2 GFB

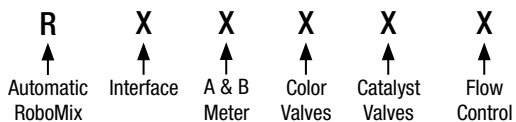
*Order additional low pressure valves or other high pressure valve configurations as kits (see accessories)

Automatic Wall Panel



	Interface	A & B Meter	Color Valves	Catalyst Valves	Flow Control
A			Available 2009		

Automatic RoboMix Panel



	Interface	A & B Meter	Color Valves	Catalyst Valves	Flow Control
R			Available 2009		

LP = low pressure; HP = high pressure; AFS = air flow switch; GFB = gun flush box

Accessories

Meter Kits

Contains one flow meter, cable, and hardware

15V804	G3000 Flow Meter
15V827	G3000HR Flow Meter
15V820	HG6000 Flow Meter
15V806	1/8" Coriolis Flow Meter
258151	3/8" Coriolis Flow Meter
15V807	S3000 (Solvent) Flow Meter

Low Pressure Color Change Kits

Contains color valves and solenoid control module

256581	2 Color
256582	4 Color
256583	7 Color
256584	12 Color
256585	2 Color and 2 Catalyst
256586	4 Color and 2 Catalyst
256587	4 Color and 4 Catalyst
256588	7 Color and 2 Catalyst
256589	7 Color and 4 Catalyst
256590	12 Color and 2 Catalyst
256591	12 Color and 4 Catalyst
256592	13-18 Colors
256593	13-24 Colors
256594	13-30 Colors
256595	0 Colors and 2 Catalysts

High Pressure Color Change Kits

Contains color valves and solenoid control module

256596	2 Color
256597	4 Color
256598	7 Color
256599	12 Color
256600	2 Color and 2 Catalyst
256601	4 Color and 2 Catalyst
256602	4 Color and 4 Catalyst
256603	7 Color and 2 Catalyst
256604	7 Color and 4 Catalyst
256605	12 Color and 2 Catalyst
256606	12 Color and 4 Catalyst
256607	13-18 Colors
256608	13-24 Colors
256609	13-30 Colors
256610	0 Colors and 2 Catalysts

Valve Kits

Contains valve, solenoid, and hardware

15V821	Wall Panel Dump Valve
15V354	Wall Panel 3rd Flush Valve
15V077	Stainless Steel Needle High Pressure Valve
15V737	Lubrication Cup High and Low Pressure Valve Supplies lubrication to the valve needle and seal
15U932	Carbide Seat High Pressure Valve

Dosing Kits

Contains fluid manifold hardware

15V034	10 cc Sequential Dosing
15V033	25 cc Sequential Dosing
15V021	50 cc Sequential Dosing
15U955	0 cc Dynamic Dosing

Communication Kits

15V825	Discrete I/O Integration Board Contains inputs and outputs for controlling automatic integration and special output functionality
15W023	Communication + I/O Harness Kit
15V337	Advanced Web Interface with Eight Port Hub Contains web server module, power supply, eight port hub, and enclosure
15V336	Eight Port Ethernet Hub Contains eight port hub, power supply, and enclosure
121998	25 ft CAT V Cable
121999	50 ft CAT V Cable
15V842	100 ft CAT V Cable
15V843	200 ft CAT V Cable

Cables

15V213	100 ft Power Cable
15G710	100 ft Fiber Optic Cable
15U532	3 ft CAN Cable
15V205	6 ft CAN Cable
15V206	10 ft CAN Cable
15V207	15 ft CAN Cable
15V208	25 ft CAN Cable
15U533	50 ft CAN Cable

Miscellaneous Kits

15V826	Gun Flush Box Kit Contains guns flush box and control hardware
570123	Gun Flush Box Wall Mount Kit
15V823	Gun Air Shutoff Kit Used to automatically shut off gun atomizing air during flush and fill sequences without a gun flush box
15T632	Air Flow Switch Kit
15V350	Remote Operator Station Kit
15X247	Auto Dump Kit Used to incorporate an auto dump feature without a gun flush box. Contains a dump valve, solenoid, and hardware
949122	Clear Plastic Static Mixer
15V536	Solvent Flow Switch Used to detect solvent flow during flush sequences
15W034	Alarm Light for Manual Systems
15V950	Floor Stand Contains provisions for mounting a wall fluid panel, EasyKey display, and color change module.
197902	EasyKey Paint Shields Includes 10 disposable clear plastic shields to cover the EasyKey display and shield it from paint overspray
15M483	Remote Operator Station Paint Shields Includes 10 disposable clear plastic shields to cover the remote operator station display and shield it from paint overspray
15W600	Wall Panel Fluid Manifold Cover

Gun Flush Box Gun Holders

198787	Graco Pro Xs2
198405	Graco Pro Xs3, Pro Xs4
196768	Graco PRO 3500, 3500hc, 4500
15T646	Graco AirPro Air Spray
196769	Graco Delta Air Spray
196770	Graco Alpha
196771	Graco Alpha Plus, Alpha Plus RAC
15G093	Graco G15
15G346	Graco G40, G40 RAC



ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

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.

GRACO LOCATIONS

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