



# ProMix<sup>®</sup> 2KS and 3KS

Two- and Three-Component Electronic Proportioning System



PROVEN QUALITY. LEADING TECHNOLOGY.

Packaging - Processing  
**Bid on Equipment**  
1-847-683-7720  
[www.bid-on-equipment.com](http://www.bid-on-equipment.com)

# Increase Efficiency and Productivity!

## Introducing Graco's 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.

## New ProMix 3KS Upgrade

ProMix® 3KS offers precision mixing of three component materials. From manual or automatic operation, the ProMix 3KS provides optimized flushing sequences including a third flush option.



### PROMIX 2KS FEATURES

- Manual and automatic configurations
- Intrinsically safe fluid panels allow for integration into hazardous areas\*
- 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

\*All accessories and installations need to meet local, state and national codes

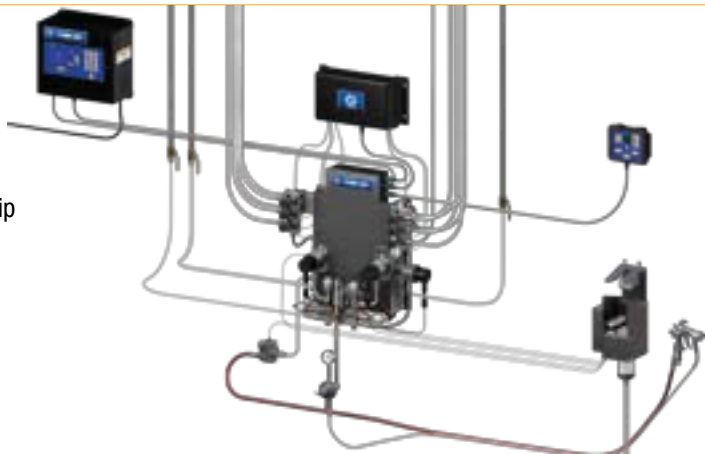
# Three Systems in One

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.



# Easy Operation

## ONE EFFICIENT SYSTEM

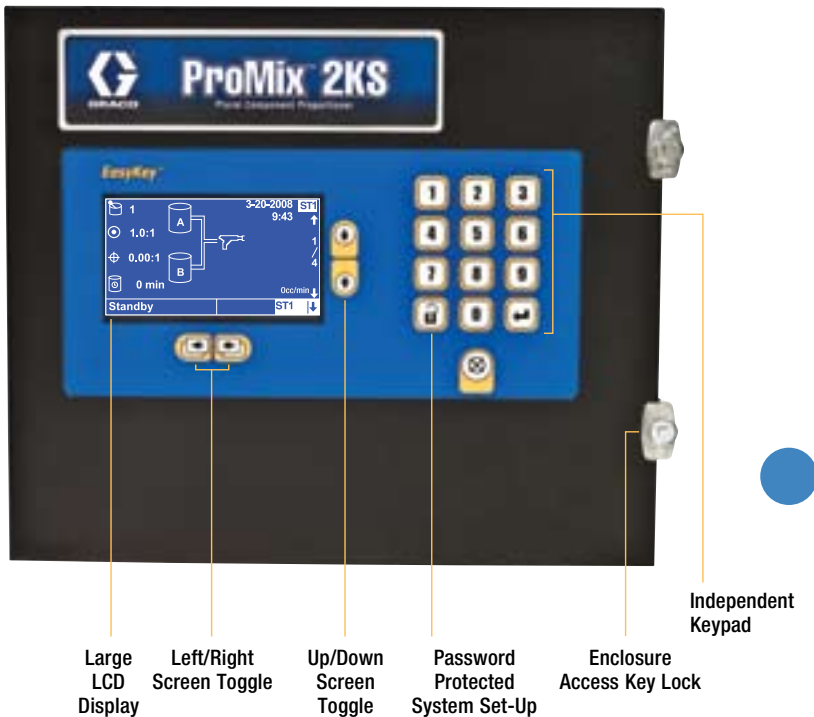
Graco's ProMix 2KS offers high-ratio assurance with easy-to-use components. The EasyKey Display and Remote Operator Station can help you achieve substantial cost and material savings.

## EASYKEY DISPLAY

Graco's EasyKey user interface offers simple navigation, multiple language capabilities and a high degree of reliability.

The large LCD display screen is easy to read and operate during machine set up and process monitoring.

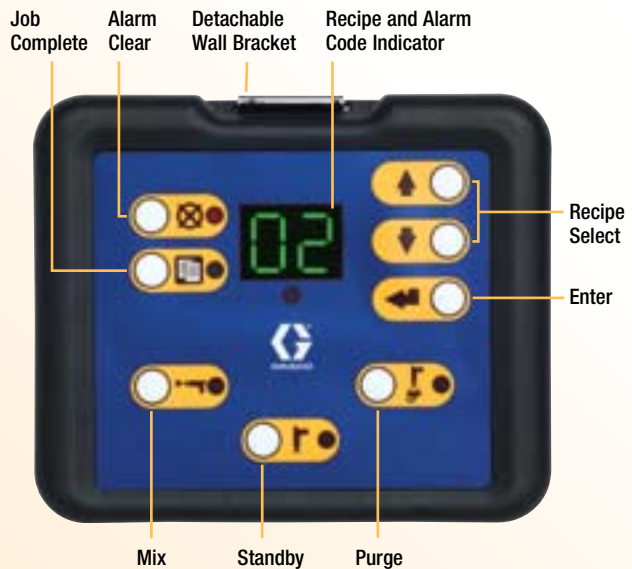
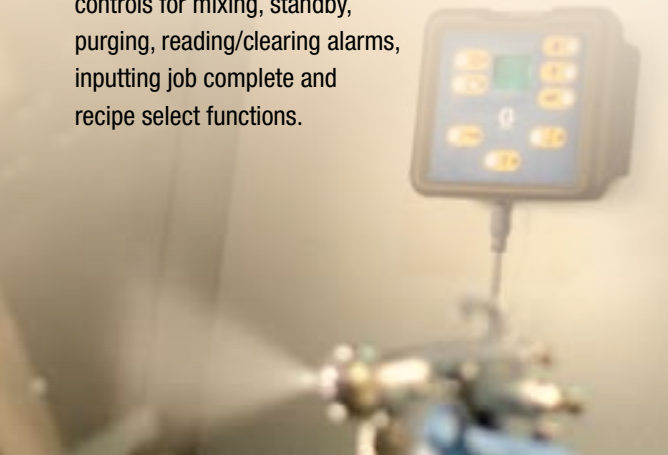
The independent touch pad keeps contaminants off the screen while the large keys allow for clear data entry.



## REMOTE OPERATOR STATION

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.



# 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 50:1 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

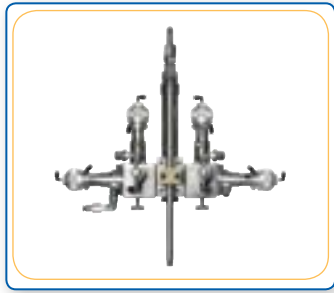


#### ROBOMIX

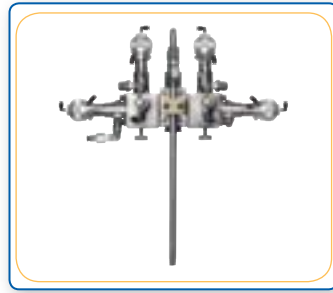
- Up to 50:1 mix ratio for a variety of applications
- Up to 250 psi (17.2 bar) working pressure
- Lightweight, compact design allows easier integration closer to the spray gun
- Can be interfaced with manual spray guns



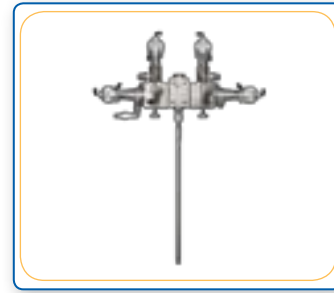
# Fluid Manifold



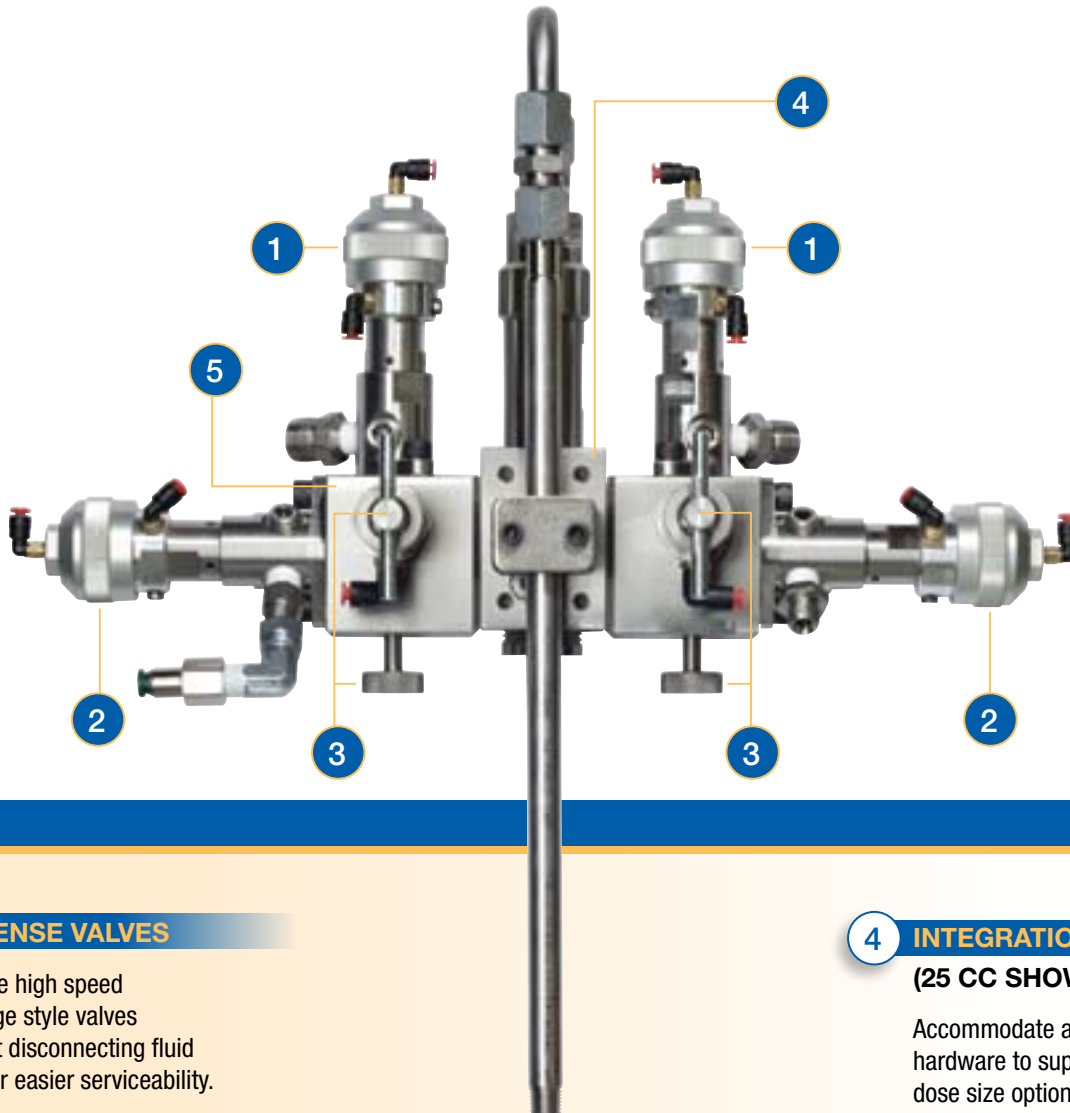
50 cc Integrator



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



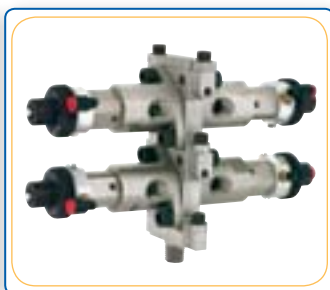
Coriolis meter

### 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



Color Change Module



Low Pressure Color Stack

### GUN FLUSH BOX

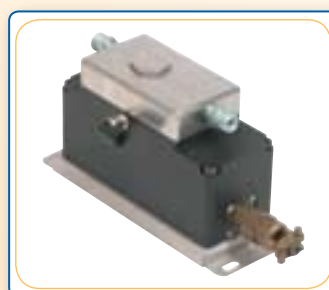
- Automated flushing system for manual spray guns
- Eliminates manual gun triggering for more accurate flushing and filling, and less waste



Gun Flush Box

### 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



Regulator 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

### 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



Advanced Web Interface screen shot

# Upgrade Your System with the ProMix 3KS

## PRECISION MIXING OF THREE-COMPONENT MATERIALS

- Manual or automatic operation
- Up to 25 colors, 4 catalysts, and 4 reducers in modular color change system
- Intrinsically safe fluid panel for operation in hazardous areas\*
- Optimized flushing sequences including third flush option

\*All accessories and installations need to meet local, state and national codes

## PROMIX 3KS EXAMPLE SYSTEM

### Step 1: Identify

Specify your base system.

### Step 2: Upgrade!

Choose the ProMix 3KS Module to fit your system.

**T**    **K**    **X**    **X**    **0**    **0**  
 ↑    ↑    ↑    ↑    ↑    ↑  
 Three Component Meter Color Valves  
 ↑    ↑    ↑    ↑    ↑    ↑  
 Three Component Meter Color Valves

T	K	Meter	Color Valves	0	0
T	K	0 = No Meter	0 = No Valves (single color)	0	0
		1 = G3000	1 = 2 Color LP		
		2 = G3000 HR	2 = 4 Color LP		
		3 = 1/8" Coriolis	3 = 2 Color HP		
		4 = S3000	4 = 4 Color HP		



## PROMIX 3KS TECHNICAL SPECIFICATIONS

<b>Mix Ratio Range*</b>	
Sequential Dosing.....	1st stage: 0.1:1 to 50:1 2nd stage: 0.1:1 to 50:1
Dynamic Dosing .....	1st stage: 0.1:1 to 30:1 2nd stage: 0.1:1 to 30:1
Ratio Accuracy.....	up to + 1% minimum (user selectable)
External Power Supply Requirements .....	85-250Vac, 50/60 Hz. 2 amps max draw, 15 amp circuit breaker required, 8 to 14 AWG power supply wire gauge
Operating Temperature Range .....	41 to 122°F (5 to 50°C)
<b>Noise Level</b>	
Sound pressure level.....	below 70 dBA
Sound power level.....	below 85 dBA
Wetted Parts .....	303 SST, 17-4 SST, PTFE, perfluoroelastomer, tungsten carbide with nickel binder
<b>Weight</b>	
3KS Wall fluid panel.....	32.6 lb (14.8 kg)
Power/Barrier Assy .....	15.2 lb (6.9 kg)

\*Ratio ranges are dependent on flow rate, dose size and meter resolution

## PROMIX 3KS ACCESSORIES

<b>Cables</b>	
123277....	6 ft Yellow Color Change/Booth Control
123280....	50 ft Yellow Color Change/Booth Control
123273....	10 ft Green CAN Cable
123274....	25 ft Green CAN Cable
123271....	50 ft Red Power Cable
123272....	100 ft Red Power Cable
<b>Miscellaneous Kits</b>	
16A732 ...	3K Floor Stand Extension Extends 15V950 2KS floor stand for 3KS use

