

AUTOQUIP
AUTOMATION

A red graphic element consisting of a triangle pointing upwards, a horizontal line, and a circle, all overlapping to form a stylized 'Q' shape.

Multi-Component Metering System

- **Versatile-Ultra Wide Flow and Ratio Range**
- **Competitive Price**
- **Improves Quality**
- **Reduce Waste**
- **Ratio Assurance Flow Meters Available For All Models**



SUPERIOR CONTROL



REAL TIME METERING



OPTIMIZE MIX QUALITY

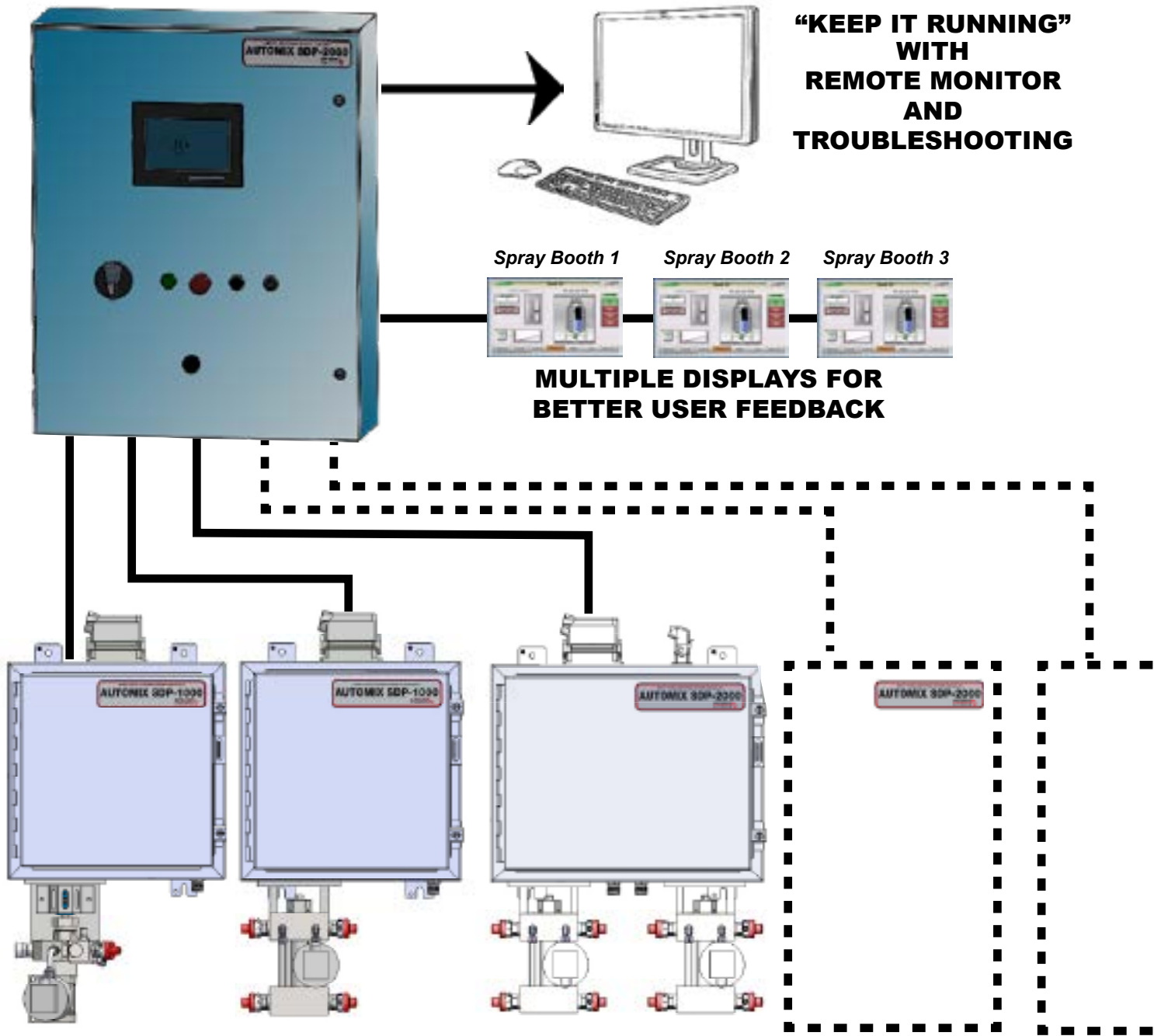
Superior Flow Control and Precision

The Autoquip Multi-Component Metering Mix System is designed to provide superior control of plural component ratios and flow rates. Our fluid metering system uses real-time metering to accurately dispense and mix the resin and hardener on-ratio, regardless of the varying flow rates seen in real world paint applications.

The mix manifold is designed to optimize mix quality and keep material separated until entry to the static mixer, minimizing internal volume by receiving Resin (Component A) and Hardener (Component B) continuously. This precise and reliable electronic Multi-Component system can be used for a broad range of solvent borne, waterborne, and acid catalyzed materials. The system is easily set up and operated with a 7" touch screen, with system parameters and usage data easily available. Ratio assurance with built-in system safeguards provides process feedback, effective color change solution and material tracking and reporting.

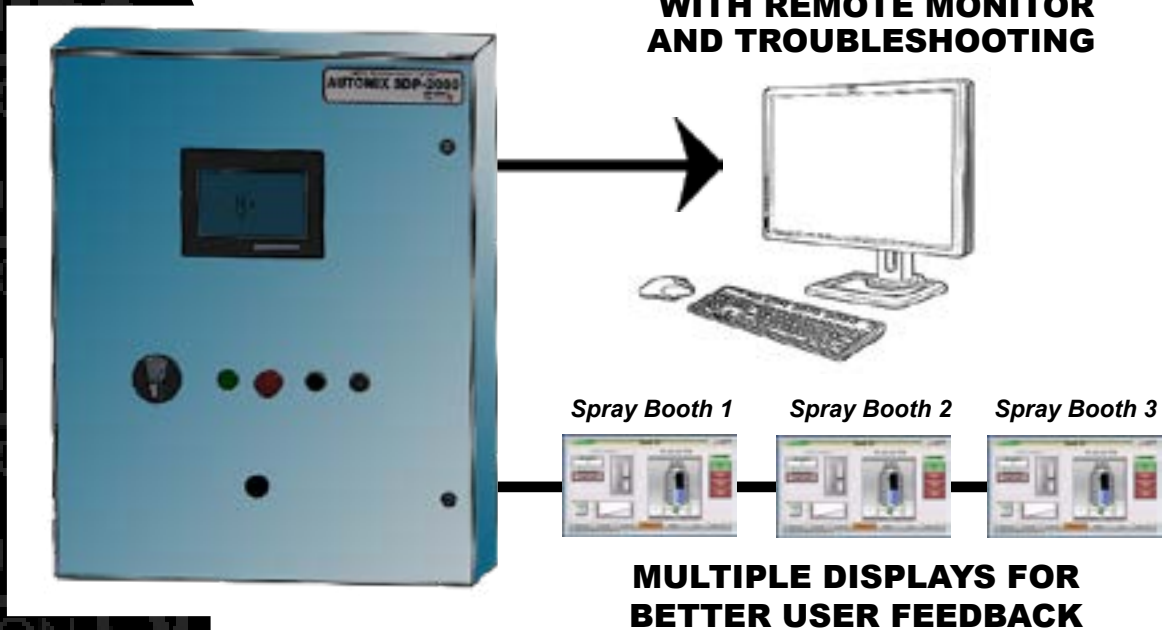


1K - 2K - 3K - MORE



- Add Fluid Panels to Blend Multiple Components

Versatile Platform - "The Controller"



Autoquip is a manufacturer of premier coating application equipment. Our systems incorporate "Factory of the Future" designs. The Autoquip "Controller" shown here is an excellent example of flexibility within simplicity. Using experience gained over our years of business, our "Controller" is scalable for today and tomorrow. Expandable and configurable with capability to quickly adapt to different plant environments. As standard, our "Controller" HMI (Human Machine Interface) is mounted on the enclosure door. The HMI provides users system control and performance feedback in an easy to understand menu driven format. Not every customer can locate our "Controller" at an optimum user level. The Autoquip "Controller" HMI can be duplicated and/or remotely mounted, locating the display at a convenient point of use. Additional HMI displays are available for supervisor or maintenance monitoring. Every Autoquip "Controller" is Ethernet ready and interfaceable to plant control and data networks. Production monitoring and off-site troubleshooting schemes are available.

- Single control platform for both hand spray and automatic applications
- Simple to interface and operate
- Direct interface to robot controls, system PLC, and plant manufacturing networks
- Multiple mixers operating from a single control
- Extensive material usage recording **AUTOLOG** and reporting **AUTOREPORT**

Single Component 1K Systems - High Flow 30ccm - 1000ccm



Stabilize Your Current Metering System

- Solid control of flow stability
- Flow range 30CC/minute - 1000CC/minute
- Optional Flow Meter Monitor/Closed loop control
- Electronic inlet and outlet pressure monitoring
- Quick color change with minimal waste - pump volume less than 5CC
- Simple - integrates in minutes
- Common control technology
- Upgradeable to 2K
- Great ROI - normally less than 1 year

Atomizing coatings with improper process inputs waste material. Repeatable atomizing air and fluid flow are crucial to the development of smooth and repeatable finish layers. The lower the flow rate, the less variance allowed. The Autoquip SDP-1000 System – High Flow gear pump-based system provides a scalable/repeatable flow stream to the atomizer. The resulting ROI is substantial. Start with at least a 15% transfer efficiency increase over an air piloted fluid regulator system and 10% increase in FPY “First Pass Yield”. The Autoquip SDP-1000 High Flow System works well between 30 cc/minute and 1000 cc/minute and adjusting a flow rate is fast and accurate. The SDP-1000 System-High Flow is minimally affected by supply system malfunctions and incorporates the necessary pressure sensors to alert or alarm when the system can no longer maintain flow rate.

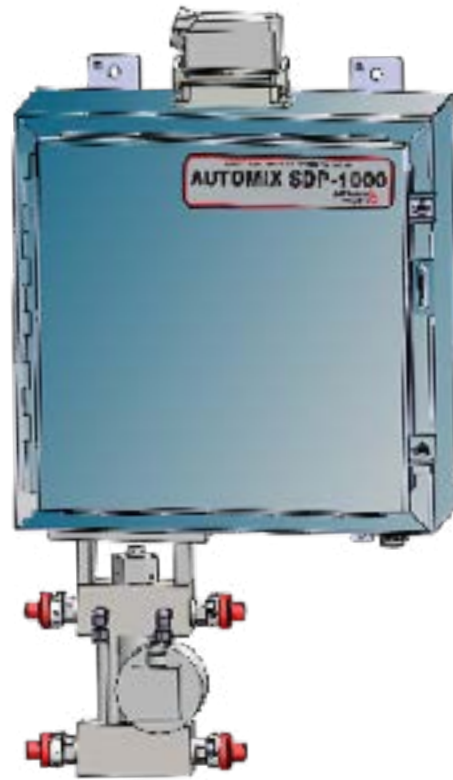
SOLID FLOW CONTROL



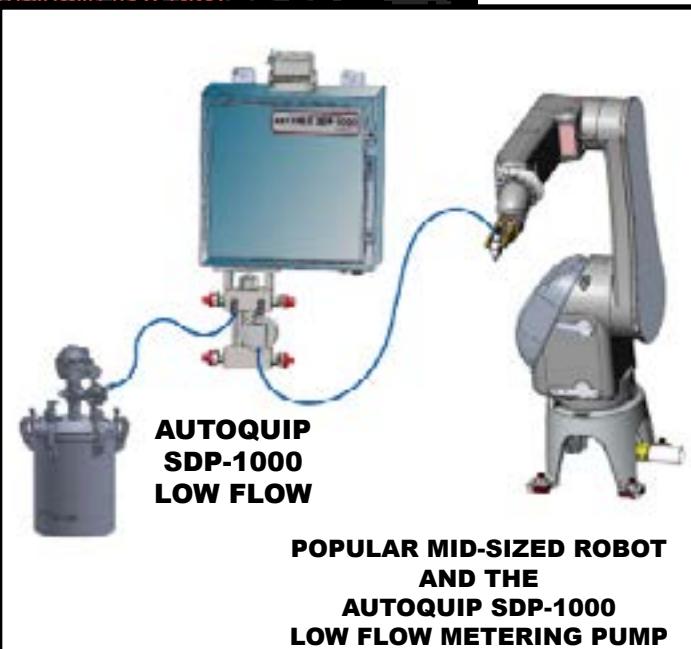
**AUTOQUIP SDP-1000
WITH LEADING
2K SYSTEM**

Single Component SDP-1000 Systems - Low Flow 1 ccm-400ccm

Atomizing coatings with improper process inputs waste material. Repeatable atomizing air and fluid flow are crucial to the development of smooth and even finish layers. The lower the flow rate, the less variance allowed. The Autoquip SDP-1000 System – Low Flow dispense pump-based system provides a scalable/repeatable flow stream to the atomizer. The resulting ROI is substantial. Start with at least a 30% transfer increase over a fluid regulator system. Add at least a 25% increase in FPY “First Pass Yield” when using the SDP-1000 Low Flow System. The Autoquip SDP-1000 Low Flow System works well between 1 cc/minute and 400 cc/minute and adjusting a flow rate is fast and accurate. The SDP-1000 System - Low Flow is minimally affected to supply system malfunctions or low viscosity materials and incorporates the necessary pressure sensors to alert when the system can no longer maintain flow rate.



- Solid control of flow stability
- Works well with low viscosity fluids including solvents and mold releases
- Flow range 1CC/minute - 400CC/minute
- Repeatable >1%
- Electronic inlet and outlet pressure monitoring
- Simple - integrates in minutes
- Common control technology
- Upgradeable to 2K
- Great ROI



DualComponent2KSystems-HandGun-SingleBeakerRatioCheck



- Ultra wide ratio control 1:1 - 100:1 even when feathering the trigger
- Multiple mix manifolds on one control
- Remote mix manifold available (mixed at the waist) for extended hose lengths
- Multiple Guns/Resins/Catalyst
- Fast color change
- Gun flush box interface for automatic loading of coatings

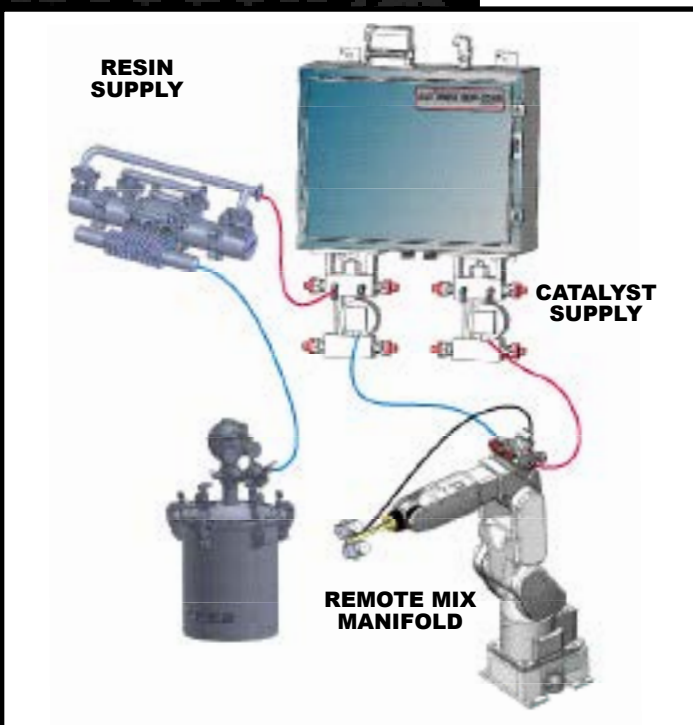
Autoquip offers Multi-Component Mixing Systems in a wide variety of configurations. Autoquip hand gun systems are especially flexible. Our "Controller" technology will employ up to 4 mixing points and can be operated simultaneously, netting significant cost savings over competitive models. Autoquip was first with "Mix at the Waist" technology yielding Best in Class reductions in flushing waste. Our Catalyst Dispenser Technology provides the most accurate blending of hardener agents at ratios to 100:1. Our equipment is simple to test the calibration. Manually select options on the HMI display, dispense a few hundred cc of mixed coating in a beaker, enter the volume into the HMI and the Autoquip patent pending "Single Beaker Ratio Verification" process provides a go/no go ratio test. No disassembly of fluid equipment, flushing procedures, or future problems are introduced from the ratio calibration procedure.



Dual Component 2K Systems - Autoquip Low Flow 1- 400CC/Minute



- Very low flow capability
- Ultra wide ratio control 1:1 - 100:1
- Solid flow control
- Highly accurate even with thin materials
- Remote mix manifold available for on-machine/arm mixing
- Multiple Resins and Catalyst
- Common control technology
- Upgradeable to Multi-Component mixing

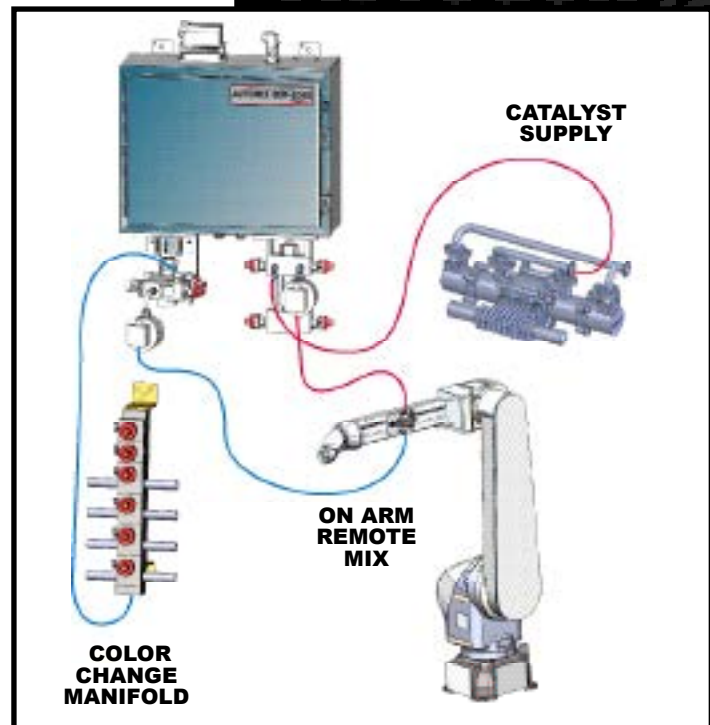


Dual Component 2K Systems - Autoquip Standard Flow 25-1750CC/Minute



- Flow rated to 1750CCM
- Ultra wide ratio control 1:1 - 100:1
- Solid flow control
- Highly accurate even with thin materials
- Remote mix manifold available for on-machine/arm mixing
- Multiple Guns/Resins/Catalyst
- Common control technology
- Upgradeable to Multi-Component

Autoquip offers Multi-Component Mixing Systems in a wide variety of configurations. Autoquip automatic gun systems are offered in low and high flow capacities. Our "Controller" technology operates up to 2 mixing points, netting significant cost savings over other competitive models. Autoquip offers remote mixing technology yielding Best in Class reductions in flushing waste. Our Catalyst Dispenser Technology provides the most accurate blending of hardener agents at ratios to 100:1. Our equipment is simple to test the calibration. Manually select options on the HMI display, dispense a few hundred cc of mixed coating in a beaker, enter the volume into the HMI and the Autoquip patent pending "Single Beaker Ratio Verification" process provides a go/no go ratio test. No disassembly of fluid equipment, flushing procedures, or future problems introduced from the ratio calibration procedure.



TRACK IT DOWN “Use Autolog and Autoreport to automate the VOC process”

AutoReport software uses the data acquired by the AutoLog software package and user information entered into a spreadsheet program to generate full featured environmental reports.

AutoReport is designed to sub-divide by chemical composition each gallon of paint and hardener into **V.O.C.** and non **V.O.C.** usage totals. AutoReport can be programmed to provide sub and grand totals for all **V.O.C.** producing liquids passing through the Autoquip Multi-Component System along with non- **V.O.C.**'s totals and subtotals by color, and material type.

Key Benefits:

- Automated method of collecting and reporting HAPS emissions.
- Much more accuracy.

SYSTEM
STATUS
FROM
AUTOMIX

PRODUCTION
DATA
FROM CELL
CONTROL

VOLUME
DATA
FROM FLOW
METERS

THE CONTROLLER



**RESIN, CATALYST
AND SOLVENT TOTALS**

**AUTOQUIP
AUTOLOG SOFTWARE**

Current Recipe
& Flow Status



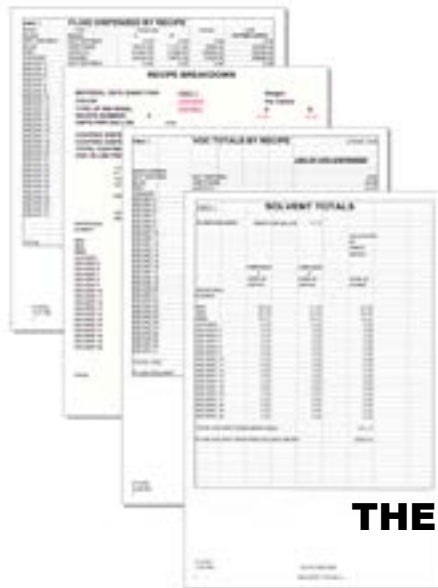
Flow Rates

Log Control

**COLLATE AND STORE
DELIMITED DATA**

**AUTOREPORT
SOFTWARE**

**TABULATE AND
REPORT DATA**



THE VOC SOLUTION

AQ 1K, 2K, 3K Configurations

Pump 1 Options

No Pump
1.5cc Gear Pump
3.0cc Gear Pump
4.5cc Gear Pump
*35cc Dispenser Pump
*70cc Dispenser Pump

Pump 1 Dispenser Transducer Type*

Non Flushable
Flushable

Pump 1 Color Change Manifold Options

Resin Materials-
Minimum 0
Maximum 24

Pump 2 Options

No Pump
1.5cc Gear Pump
3.0cc Gear Pump
4.5cc Gear Pump
*35cc Dispenser Pump
*70cc Dispenser Pump

Pump 2 Dispenser Transducer Type*

Non Flushable
Flushable

Catalyst Color Change Manifold Options

Catalyst Materials-
Minimum 2
Maximum 5

Pump 3 Options

No Pump
1.5cc Gear Pump
3.0cc Gear Pump
4.5cc Gear Pump
*35cc Dispenser Pump
*70cc Dispenser Pump

Pump 3 Dispenser Transducer Type*

Non Flushable
Flushable

Control to Pump Wiring Options

Conduit Install - Hard Wired
Harding Connectors - Plug In

Mounting Options

No Stand
Stand

Control Interface

Ethernet Communication

Gear Flowmeter Options

Pump 1
Pump 2
Pump 3

Pump 1 Fast Flush Options

Standard
Solvent/Dump
Solvent/Air Dump

Hazardous Duty Enclosure X-Proof

No
Yes

***If pump is a dispense choice, flushable or non-flushable**

AUTOQUIP
AUTOMATION



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