PRO-BLEND®
CLOSED MIXING SYSTEM
Total Operational Efficiency
THE FIRST EVER
CLOSED MIXING SYSTEM.
Innovation that is changing the world of liquid mixing.

A versatile, easy-to-use system that delivers complete mixing and more efficient operations while reducing worker and environmental exposure.
The innovative PRO-BLEND® Closed Mixing System utilizes timed pulses of pressurized air that quickly and completely mix the contents of a container such as a drum or an IBC.

Pro-Blend® delivers a thoroughly homogeneous mix more quickly, more safely and with less work than alternatives.
**Complete Mixing**

Achieves superior product homogeneity and reduces costly product returns and rework.

**Quick & Easy to Use**

Light weight compact design and Turn, Click & Go interface simplifies mixing operations and maximizes worker productivity.

**Protects Workers & Environment**

Closed System design provides greater worker safety and environmental protection than other types of mixing systems.

**Reduce Cost & Waste**

One Pro-Blend® Mixer can be used on multiple containers which eliminates the cost of a mixer for each container.

Customers get what they pay for by improving product consistency and the ability to maximize extraction with minimal waste or product loss.

- Optimized product quality due to a more homogeneous mix.
- Helps assure a consistent product and a consistent customer experience.

**Always Closed…For Ultimate Control**

Closed System dry-break design minimizes spills, stains and exposure and allows for control throughout the liquid handling process.

- Closed Packaging
- Closed Filling
- Closed Mixing
- Closed Dispensing
LESS IS MORE
WITH THE Pro-Blend®

Increased mixing speed and faster container switch-over equals decreased labor time and lower costs. Mix more containers more quickly.

*NOTE: Minor cleaning may be required between container reuse.*
A single Pro-Blend® Mixing System can be used on multiple Drums & IBC's.*

*NOTE: Minor cleaning may be required between container reuse.

**Drums**

**IBC's**

PRO-BLEND®
Drum Closed Mixer
For 55 Gal (208L) Drum
Part # 7340

PRO-BLEND®
IBC Closed Mixer
For 275 Gal (1000L) IBC
Part # 7339
HOW IT WORKS
THE POWER OF THE BUBBLE

1. Powerful Pulses of air are ejected through the bottom of the down tube and mix plate, then forced along the bottom of the container.

2. Large flat bubbles are formed immediately above the mix plate and begin moving product toward the surface.

3. Bubbles continue to rise upward, forcing heavier product to the surface and creating a vertical circular blending action.

4. As each bubble breaks the surface, it pushes product across the top of the container and down the sides to the bottom, quickly involving the entire contents of the container, providing a homogeneous mix.
INCREASE MIXING SPEED AND HOMOGENEITY

- NO SEALS
- NO GEARS
- NO MOTORS
- NO ELECTRICITY
- PNEUMATICALLY POWERED

The Micro Matic Pro-Blend® Closed Mixing System requires 4 CFM of clean dry compressed air to be operated.
Pro-Blend® APPLICATIONS

The Micro Matic Pro-Blend® Mixing System is designed to protect its users and the environment from exposure while providing complete liquid suspension and homogeneity. It successfully mixes a wide variety of products including the following:

- CROP PROTECTION PRODUCTS
- SEED TREATMENT
- LIQUID FERTILIZERS
- MICRONUTRIENTS
- SPECIALTY CHEMICALS
- ADDITIVES
Pro-Blend® USERS

The Micro Matic Pro-Blend® Mixing System is a solution for all users throughout the supply chain. This includes Manufacturers, Formulators, Distributors, Seed Treaters and Applicators.

Pro-Blend® SOLUTIONS SMALL TO LARGE

Closed System Solutions

DRUMS
5-55 Gallons

IBC’S
275 & 330 Gallons

ASSET TANKS
110 - 275 Gallons

Open System Solutions*

BLEND or STORAGE TANKS
200-30,000 Gallons
Flat Bottom
V - Bottom
Shallow V
Dish
Rectangular
Round
Horizontal

RAIL
20,000-30,000 Gallons

BULK
up to 1 million Gallons

*Call Micro Matic for customized open systems to fit your operational environment.
The Pro-Blend® is part of a closed chemical transfer system that is used to package, fill, mix and dispense liquid products. Each stage of this system is illustrated at left and right.

Closed Drum and IBC Systems shown use a 2.5” x 5 Buttress thread container valve. Other thread patterns are used in different markets and they are compatible with the Pro-Blend® Closed Mixing System.

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<th>Part Number</th>
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<td>1 102-079</td>
<td>RSV / RPV TAMPER EVIDENT SHIPPING CAP 3 Key, Black</td>
<td>Protects RSV &amp; RPV Container Valve through transportation. - Acetal Copolymer Plastic Construction</td>
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<tr>
<td>2 CE-Z11-618</td>
<td>TAMPER EVIDENT WIRE SEAL For 2.5&quot; x 5 Buttress RSV &amp; RPV Container Valves &amp; 6&quot; IBC Center Caps</td>
<td>Secures 2.5&quot; x 5 RSV Container Valve and 6&quot; IBC Center Cap to container and protects container from unauthorized access. - Galvanized Steel Construction - 18'(457.2mm) L, 1/16&quot; (1.59mm) DIA</td>
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<tr>
<td>3 PX-3</td>
<td>TAMPER EVIDENT CRIMP-ON RING Rieke, 2&quot; Ply Solid Center</td>
<td>Secures standard 2.5&quot; x 5 Buttress Bung Cap to container bung and protects container from unauthorized access. For use with Tamper Evident Crimp-On Ring Install Tool (#G10). - HDPE &amp; Aluminum Construction - Manufacturer: Reke - 2&quot; (50mm) VISEGRIP</td>
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<td>4 2683</td>
<td>RSV CONTAINER VALVE 2.5&quot; x 5 Buttress Thread, Viton Seals Also available in EPDM and other thread patterns</td>
<td>For use with 3 Key RSV / RPV Couplers for closed liquid transfer. - Glass Reinforced Nylon Construction</td>
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<td>5 744-023</td>
<td>RSV / RPV FILL COUPLER Vapor Recovery Outlet, Viton Seals</td>
<td>For use with 3 Key RSV &amp; RPV Container Valves for closed liquid filling. - Body Casting: AISI 316L Stainless Steel Construction - Probe: AISI 304 Stainless Steel Construction - 1/2&quot; (12.7mm) NPT Male Liquid Inlet, 1/4&quot; (6.35mm) NPT Female Vapor Recovery Outlet</td>
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<tr>
<td>6 7340</td>
<td>PRO-BLEND® Drum Closed Mixer For 55 Gal (208L) Drum</td>
<td>For use with 3 Key RSV &amp; RPV Container Valves for simplified closed container liquid mixing and reincorporation of suspension concentrates, seed treatments and products that require mixing or remixing before use.</td>
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<td>7 102-014</td>
<td>RSV / RPV DUST COVER Yellow</td>
<td>Protects RSV &amp; RPV Container Valve from debris when coupler is disconnected - HDPE Construction</td>
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<td>8 6589</td>
<td>RSV / RPV DISPENSE COUPLER Threaded Liquid Outlet, Viton Seals</td>
<td>For use with 3 Key RSV / RPV Container Valves for closed liquid dispensing. - AISI 304 Stainless Steel Construction - 3/4&quot; (19.05mm) NPT Female Liquid Outlet</td>
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<tr>
<td>9 7488/XXXX</td>
<td>RSV / RPV DOWN TUBE Cut to length by Micro Matic Customer to provide measurement from container sealing surface to sump.</td>
<td>Connects to RSV Container Valve to create the RSV Container Valve Assembly. - Thick Wall HDPE Construction - AISI 304 Stainless Steel Stepless Clamp - 38.38&quot; (975mm) L, 1&quot; (25.4mm) DIA - Straight cut with Inner Foot</td>
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1 | 102-079 RSV / RPV TAMPER EVIDENT SHIPPING CAP 3 Key, Black | Protects RSV & RPV Container Valve through transportation. - Acetal Copolymer Plastic Construction
2 | CE-Z11-618 TAMPER EVIDENT WIRE SEAL For 2.5” x 5 Buttress RSV & RPV Container Valves & 6” IBC Center Caps | Secures 2.5" x 5 RSV Container Valve and 6" IBC Center Cap to container and protects container from unauthorized access. - Galvanized Steel Construction - 18" (457.2mm) L, 1/16" (1.59mm) DIA
3 | 743-087 RSV CONTAINER VALVE 2.5” x 5 Buttress Thread, Viton Seals Also available in EPDM and other thread patterns | For use with 3 Key RSV Couplers for closed liquid transfer. - AISI 304 Stainless Steel Construction
4 | 2683 RPV CONTAINER VALVE 2.5” x 5 Buttress Thread, Viton Seals Also available in EPDM and other thread patterns | For use with 3 Key RSV / RPV Couplers for closed liquid transfer. - Glass Reinforced Nylon Construction
5 | 10918/XXX RSV / RPV DOWN TUBE PRO-BLEND® IBC MIXING PLATE ASSEMBLY Cut to length by Micro Matic. Customer to provide measurement from container sealing surface to sump. Top Side Bung Installation - 127mm diameter foot -Polyethylene Construction | Connects to RSV Container Valve to create the RSV Container Valve Assembly. - Thick Wall HDPE Construction - AISI 304 Stainless Steel Stepless Clamp - 38.38” (975mm) L, 1” (25.4mm) DIA - Straight cut with bellow Innerfoot base Improved mixing in high viscosity and densely settled materials. -5” (127mm) diameter foot for 0.1” (25mm) down tube -Polyethylene Construction - Requires at least 5” opening for installation.
6 | 7570/1065 RSV / RPV DOWN TUBE For 275 Gal (1000L) IBC Center Cap Installation | Connects to RSV Container Valve to create the RSV Container Valve Assembly. - Down Tube: HDPE Construction - Circuits: AISI 316L Stainless Steel Construction - 41.98” (1065mm) L, 1” (25.4mm) DIA - Flex bellows with straight cut base
7 | 744-023 RSV / RPV FILL COUPLER Vapor Recovery Outlet, Viton Seals | For use with 3 Key RSV & RPV Container Valves for closed liquid filling. - Body Casting: AISI 316L Stainless Steel Construction - Probe: AISI 304 Stainless Steel Construction - 1” (25.4mm) NPT Male Liquid inlet, 1/4” (6.35mm) NPT Female Vapor Recovery Outlet
8 | 7339 PRO-BLEND® IBC Closed Mixer For 275 Gal (1000L) IBC | For use with 3 Key RSV & RPV Container Valves for simplified closed container liquid mixing and reincorporation of suspension concentrates, seed treatments and products that require mixing or remixing before use.
9 | 6589 RSV / RPV DISPENSE COUPLER Threaded Liquid Outlet, Viton Seals | For use with 3 Key RSV / RPV Container Valves for closed liquid dispensing. - AISI 304 Stainless Steel Construction - 3/4” (19.05mm) NPT Female Liquid Outlet
10 | 102-014 RSV / RPV DUST COVER Yellow | Protects RSV & RPV Container Valve from debris when coupler is disconnected. - HDPE Construction
11 | 5792 6” DUAL BUNG IBC CENTER CAP Dark Blue, EPDM Seals | For use with 2.5” x 5 Buttress Thread RSV, RPV & EPV Container Valve IBC installs. - Glass Reinforced Polypropylene Construction - Accommodates two container valves, bung plugs, etc.
One Pro-Blend® can be used to mix multiple containers with the option of manual or automated container switch-over. The Pro-Blend® Series System can be reused with the same product or different products. NOTE: Rinsing is recommended between products to prevent cross contamination.

Custom designs available. Call 1-866-755-4477 for details.

**MANUAL SERIES MIXING**

Mix one container at a time with a manifold system.

**PLC AUTOMATED MIXING**

Mix multiple containers at the same time.
Use of Micro Matic's low cost system accessories allows the Pro-Blend® Mixing System to mix product and dispense it at the same time.

The same accessories provide the capability to achieve nearly full product extraction from the container by using an angled down tube that is positioned in the sump of the IBC. When the cost of many products are considered, the amount of product left unused in the sump can mean substantial value in each container that often goes unused. With Micro Matic accessories, the value in this product can be realized.
DRUM DOWN TUBE WITH MIX FOOT

RSV / RPV Down Tube Part# 7488/XXXX – Unique thick wall structural design optimizes mixing results in containers. Engineered bellows and mix foot resist flexing when air pressure pulses.

Specifications: ESCR HDPE Construction, 301 SS stepless clamp, 1.9" / 49mm diameter foot

IBC DOWN Tube WITH MIX PLATE

RSV / RPV Thick Wall Down Tube w/ 5" Mix Plate Part# 10918/XXXX – Recommended for fastest and most thorough mixing in IBCs and Asset Tanks. Unique thick wall structural design optimizes mixing results. Engineered bellows and mix plate resist flexing when air pressure pulses. Use with medium and high viscosity products and other products that are especially challenging to mix.

Specifications: ESCR HDPE Tube Construction, 301 SS stepless clamp, 5" / 127mm diameter foot, Polyethylene Foot construction.

DUAL BUNG IBC CAP

6” Dual Bung IBC Center Cap Part# 5792 – Use this cap with two 2.5” x 5 buttress valves and two down tubes with to provide mixing and dispensing at the same time. Specifications: Industrial Standard (DN150) thread 2 X 2.5”x5 Buttress thread, GF Polypropylene construction, EPDM gasket seal

ANGLED DOWN TUBE

RSV / RPV Down Tube Part# 7570/XXXX – Maximizes product extraction from IBC sump.

Specifications: ESCR HDPE Construction, 301 SS circlip, 1.9" / 49mm diameter with straight cut base

RINSING & STORAGE SOCKET

RSV Rinsing & Storage Socket Part# 8564 – Used to rinse Pro-Blend® mixer between containers or products. Also used as a secure storage fixture to protect the mixer when not in use.

VAPOR CANISTER

Carbon Vapor Canister Part# 7417 – Captures unwanted off-gassing. This component attaches directly to the vent port on the Pro-Blend® coupler and uses carbon filtration to purify air before discharge.

Specifications: 300cc of filter media