

# **MG**Newell

*We Make It Work Better.*



## **PRODUCTS AND SERVICES**

*Providing sanitary processing equipment and customized services*

*Since 1885*

[www.mgnewell.com](http://www.mgnewell.com)

[www.newellautomation.com](http://www.newellautomation.com)



M.G. Newell is a full-service provider of sanitary equipment for the food, beverage, dairy, pharmaceutical and personal care industries. We carry a broad range of pumps, valves, fittings and other sanitary processing supplies. In addition, we also work with customers to design and fabricate cost-effective, customized systems to fit their space requirements.

Our customers represent the world’s largest manufacturers of food, beverages, pharmaceuticals and personal care products. To help them meet consumer expectations, we strive to support their goals of sanitary processing from start to finish.

Our engineers build sanitary design into every system, from pump carts to valve clusters to batching systems to new greenfield installations. Our field technicians conduct instrument repair, preventive maintenance, calibration of existing equipment and assist in the start-up of new, on-site installations.

Our Newell Automation controls team will identify the appropriate instrument and control functionality for your process. With automation hardware, software controls, control panel design and fabrication, we provide turnkey solutions for CIP, batching, blending and other processes.

**Greensboro Division/Corporate**

336-393-0100

**Louisville Division**

502-459-7475

**Nashville Division**

615-822-3030

***sales@mgnewell.com***

*We Make It Work Better.*



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## *We Make It Work Better.*

*It's not just a tag line; it's a commitment we make to provide unparalleled service and quality parts through every phase of our relationship with you.*



The company was founded by Myron G. Newell, who came to Greensboro from Elmira, New York and opened a store in 1885 selling everything from hand churns to buggies. The company was first incorporated in May 1908. In 1913, it added farm machinery to its product line. At the suggestion of Newell's son, Burton M. Newell, Sr., the company began specializing in the dairy business in the early 1920's.

Over the years, the company has expanded into the food, beverage, pharmaceutical, and personal care industries, having evolved from being a full-line distributor to a full-service systems integration company.

Currently, M.G. Newell has three locations: Greensboro, NC, Louisville, KY and Nashville, TN. With the addition of the Louisville and Nashville division, the original M.G. Newell now functions as the corporate headquarter and houses the Greensboro division.

***Providing sanitary processing solutions since 1885***



Clamps	O-rings
Ferrules	Elbows
Gaskets	Reducers
Strainers	Sight Glasses



1/2" - 6" sizes  
 Tri-clamp or bevel seat  
 All stainless—304 or 316L  
 DIN connections available  
 Cam-locking style clamps  
 Three-piece reusable clamp connections

**Metal-detectable gaskets**

Buna N, EPDM, Silicone, FKM/  
 Viton®, PTFE/Teflon®

Screen gaskets



*The clamped union is the critical element for evaluating pipeline pressure capacity. Be certain your pressure ratings are for the union—not just the clamp.*

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- Single pin tri-clamps
- Double pin tri-clamps
- High pressure clamps
- Squeeze clamps
- Smart Clamp™



Sizes range from 1/2" to 12" for most types  
Squeeze clamp—1" to 4" size  
304 or 316 SS



*Torque tools can be used to ensure a constant amount of force and eliminate over-tightening.*



Butterfly valves	Diaphragm valves
Ball valves	Check valves
Mix-Proof valves	2-Way valves
Shut Off and Divert valves	Zero-Static valves
Angle Seat valves	Block Body and Custom Blocks



ASTM 316 or 304 stainless steel construction

Sanitary tri-clamp ends

Easy to install and maintain

Materials comply with FDA, USDA and 3A requirements

USP class 6 materials available

FDA elastomeric seats available

Mix-Proof valves for continuous processing

Sizes up to 4"



*The EnviZion diaphragm valve features a quick change bonnet that requires no tools and reduces the time required for diaphragm changes by 90%!*

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*Mix-proof valves allow flow of two different media through the same valve simultaneously without the potential for mixing.*



**Manual actuators**

**Pneumatic actuation**

**Valve communication platforms—  
FieldBus, HART, AS-Interface**

**Networking/wireless link options  
available**

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PD pumps

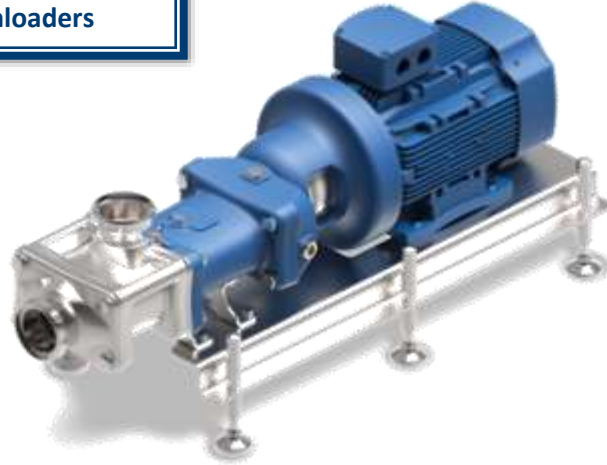
Centrifugal pumps

Twin-Screw pumps

Diaphragm pumps

Progressive cavity pumps

Drum/Tote unloaders



ASTM 316 stainless steel construction  
Pumps for a wide range of product viscosities—up to  
1,000,000 cps - and soft or hard particulates

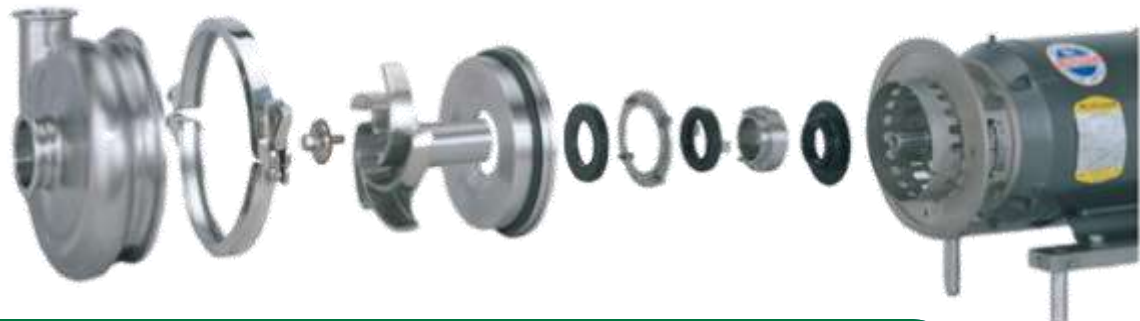
FDA, USDA and 3A compliant

USP class 6 materials available

SPX Flow Certified Pump Repair Center

Seal kits and maintenance programs

Pump rebuild and remanufacture



*Waukesha pumps are constructed with larger diameter shafts for greater strength and stiffness; extended life outer seals and heavy duty bearing frames.*

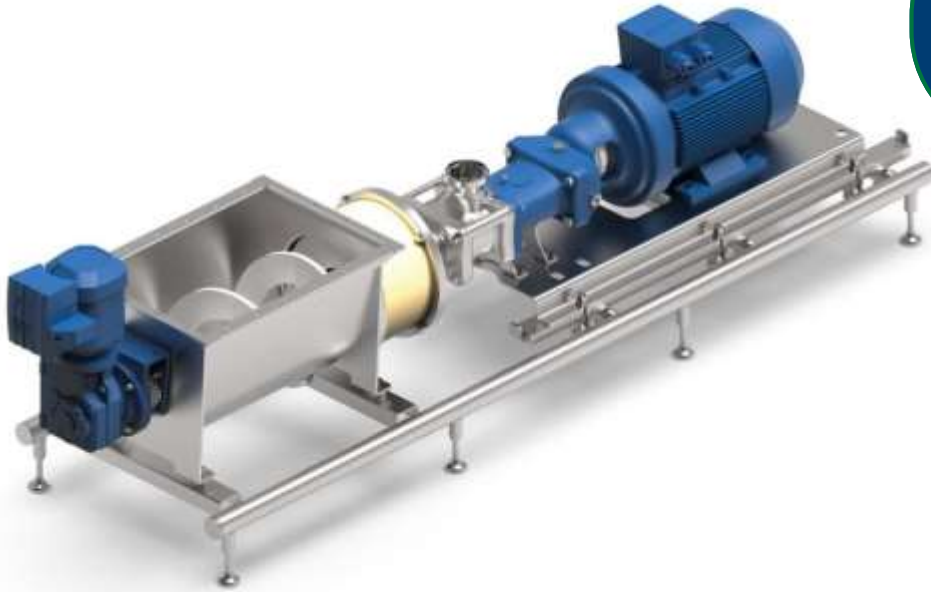




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*The feed screw will gently feed high-viscosity, non-flowable media into your twin screw pump.*

Pump carts with optional VFD control  
or remote mount pendants

Stainless steel frame

Electric drum pumps/Piston pumps

Stainless motors

Sanitary pump tubes



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PUMPS

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Dust-Free and Leak-Free

Easy installation and  
replacement

Explosion resistant

Transparent connections



Non-permeable connectors made from clear, ether-based polyurethane

Will not fracture with flexing

Options include static dissipation, high pressure transfers, black out covers, Kevlar® covers, PTFE covers

304 or 316 spigots available

Available in diameters from 4" - 65"

Connector lengths available from 3" - 19 1/2 feet



*Flexible connectors provide a safe and hygienic alternative to hose clips*



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**Hoses**  
 Wash Down Stations  
 Hose support/fitting bumper  
 Sight glass/flow indicator



*Three-piece hose assemblies are reusable and offer a complete sanitary coupling!*



1"-4" diameter, any length  
 Reducers  
 Laser etching for permanent traceability and identification  
 Rubber, silicone, PVC or fluoropolymer lined  
 Molded, jacketed and/or grounded hoses available



Processing kettles

Pressure tanks

Storage silos

Fermenters

Balance tanks

CIP/COP tanks



Single-wall or jacketed designs

Fully customizable

Standard bottom configurations—conical, dish, flat-sloped  
Standard top configurations—open, dome or bridge & cover

Various agitation options available

Electropolishing and passivation available

*Tanks can be configured to meet ASME BPE design and construction.*





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*Flat-bed scales are easy and safe for workers and have very low space requirements due to their low-profile design (no pits required).*



Hygienically designed EHEDG certification  
Easy to clean  
Low maintenance cost

Scales—inline, floor, bench  
Load cells  
Check weighers  
Metal detection



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Flow	Pressure
Level	Conductivity
Temperature	Turbidity



All stainless steel, rugged construction  
Compliant with FDA, PMO and USDA  
USP class 6 materials available  
Installation of metered system  
Chart recording  
Batch controllers



*Calibration services are available at your location or in our Greensboro and Louisville offices.*



In-Tank High or Low Shear Mixing

In-Line Mixing

Shearmill

Powder induction

High purity magnetic mixers



*Whether dissolving, dispersing or deagglomerating, we have the right mixer for your application.*



All stainless steel, hygienic construction

3A and USDA compliant

Simplified, sealed drive assemblies

Clean-In-Place capability

Reduced energy consumption and mixing time

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Drum, tote and tank mixers for  
top entry or side entry

Portable or fixed mount

Portable mixer stands



*In tank design, it is critical that the impellers (and baffles when used) are in the correct position to insure proper mixing*





Plate and frame HEX

Scrape surface HEX

Shell and Tube HEX

Cooker-Cooler



Heavy-duty stainless steel designs  
Sanitary—3A and FDA compliant  
Efficient and flexible configurations  
Available as skidded systems  
Full service maintenance and repair



*By controlling the thermal processing properties, producers can improve product viscosity, color, texture, and sensory features such as taste, smell and mouth feel.*

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Steam traps

Clean steam

Skidded utility sets

In-line steam injection

SS In-line water heaters

Custom fabricated heat utility systems

Cooking/hot fill/aseptic systems

Precise temperature control

Energy efficient



STEAM/HEATING

19

*A steam trap is an automatic valve designed to stop the flow of steam so that heat energy can be transferred, and the condensate and air can be discharged as required.*



- CIP/COP skidded systems
- Tank cleaning
- Spray balls
- Strainers
- COP baskets, totes, trays
- Supply tubes



- Cabinet and tunnel washers
- Custom designed racks for buckets, totes, trays and more
- Custom spray ball patterns available



*To achieve a sanitary clean, the basic cleaning principles of TACT—Time, Action, Chemical and Temperature—must be understood.*



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*If there are several different products running through a process, the goal is to optimize the cycles down to the minimum time required to clean the equipment following each product that runs through the process.*



Single or multi-tank systems  
Single use or water/detergent reuse  
CIP/COP combination systems



Effective and economical cleaning for any size and shape tank  
Programming and controls for automated cleaning





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*Slip-resistant grating floors and stair treads provide maximum traction even in wet and oily environments.*

**Non-slip flooring and grates**

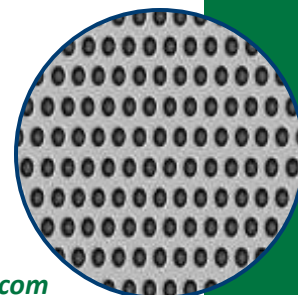
**Stair treads and covers**

**Ladder rungs and covers**

**Armoloy® coating for superior metal protection, friction, wear and corrosion resistant solutions**



Armoloy® coatings make food processing equipment last longer and clean up faster. Coatings are USDA and FDA approved for food contact applications.



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*Pump carts provide flexibility and cost savings. They are designed with bead-blasted stainless steel base and frame and locking caster wheels for durability.*



**Pump carts with optional VFD control  
or remote mount pendants**

**Stainless steel frame**

**Pump lift stations**

**Stainless motors**

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Valve clusters	Inline blending
Utility sets	Filtration
Holding tubes	Pasteurization
CIP/COP	Batching
Temp control	Pump carts
Homogenization	Heat exchanger



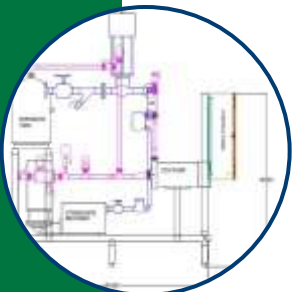
**Greenfield and upgraded installations**

**Custom engineered designs**

**Skid-mounted systems**



*Our engineers build safety and sanitary design into every system—  
all while meeting your budget!*



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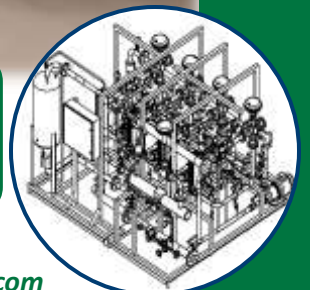
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*Skidded systems offer faster time to market, higher quality fabrication and provide flexible, efficient use of space.*



Optional designs are available to meet NEMA-4 and/or explosion-proof environments.  
Our systems meet and often exceed compliance to FDA, USDA and/or 3A standards.



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**Calibration services for:**

- Pressure
- Conductivity
- Level
- Temperature
- pH
- Chart recorders

Flow including magnetic, turbine, mass and PD



**Pump maintenance**

**Valve maintenance**

**Homogenizer maintenance**

**SPX Flow Certified Repair Center**



*As a Certified Repair Center, M.G. Newell has qualified factory service technicians on staff with over 30 years of experience.*



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*Calibration tools are maintained to NIST traceable standards.*

**Newell**  
University



Newell University is a seminar series aimed at educating plant engineers, operation managers, maintenance managers, QC personnel and plant leadership. The sessions are technical in nature in small class room settings using hands-on and real life examples. We offer these classes at our office or at your facility.



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PLC Design and Programming

HMI Design and Programming

Control Panel Design and  
Fabrication

Audits and Retrofits



UL-508A Certified Panel Shop

Panels meet NFPA, NEC and UL-508 regulations

NEMA 4x and explosion proof panels optional

Factory and Site Acceptance testing

SCADA systems

Rockwell Automation Recognized System Integrator

*Automating flawed or inefficient processes is similar to 'garbage in, garbage out'*

- Engineer's Proverb

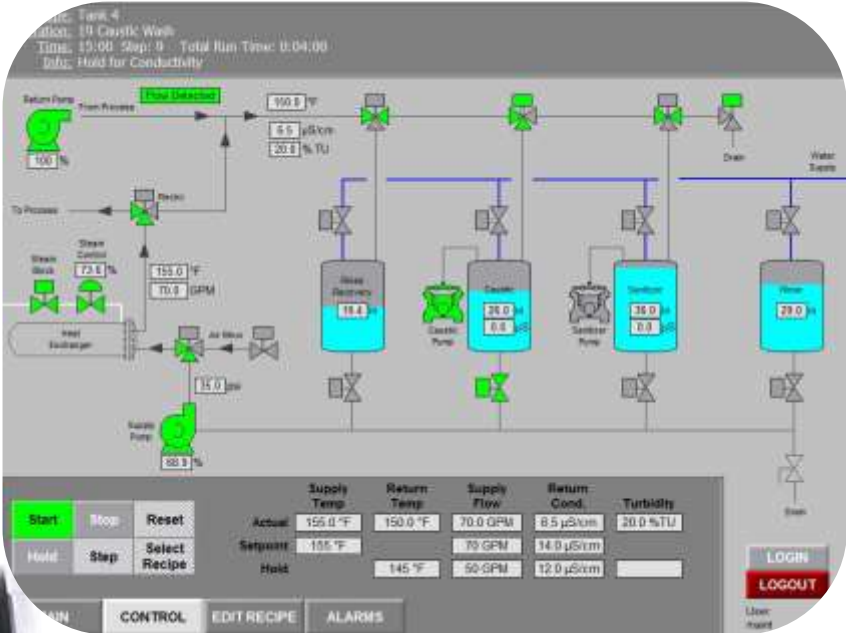




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*Working along with our process engineers, our controls team will identify the appropriate instrumentation and control functionality for your process.*

- Hardware and software specification
- Program development
- Piping and Instrumentation drawings
- Documentation
- Support and training



# MGNewell

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