



THE POWER OF ECOSTITCH

The EcoStitch All-Electric gluing solution that has revolutionized the packing industry.

THIS IS WHAT YOU GET!

Instant ROI: Get a return on your investment in as little as 4 months of use, following install. That's all it takes for this system to pay for itself.

Adhesive Savings: Valco Melton's "EcoStitch" solution can help you reduce your adhesive usage by applying precision dots or using traditional beads. The unique "EcoStitch" feature will reduce adhesive usage while improving the bond quality.

Less Downtime: Electric gear pumps and electric valves remove almost all seals typically required to run a pneumatic system. This reduces the chance of failure created by too many moving parts instantly.

Easy Integration: Valco Melton's modular design and multi-module configurations are easily adapted to existing machines through various mounting options and valve spacing for package requirements.

EcoStitch solutions can include 3 conversion options:

- Melt on Demand All Electric System
- Full Systems
- Gun conversions using your existing melters



EcoStitch valves can work at extremely high speeds, providing a clean application with virtually no stringing.



No size limitations. Achieve the smallest bead size by setting the valve into stitch mode through the pattern control.



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**VALCO MELTON'S
ECOSTITCH SOLUTION**



**TRADITIONAL
PNEUMATIC SYSTEM**



Why Go All-Electric? *The Facts*

You are now aware of the potential issues that pneumatic systems can cause, but how is an all-electric system any different? Can it truly bring an improvement to your production line? Here are a few facts:

Lower Pressure + Larger Nozzles = Fewer Plugged Nozzles with Safer Operation

The use of an all electric hot melt system allows for the use of lower pressures and larger nozzles, therefore dispensing the same amount of adhesive through a larger nozzle. Gear pumps can provide a safer application scenario while enhancing your production up-time.

1

All Electric Glue System + Fewer Moving Parts = Less Downtime and Fewer Chances of Failure

The use of electric gear pumps and electric valves remove most of the seals and additional equipment required to run pneumatic pumps and valves. Each valve has a coil that operates the valve and one seal. Each gear pump revolves by utilizing an electric motor, which eliminates the pump "wink" and the moving air cylinder that contains multiple seals and shifting devices.

2

Electric Valves + Pattern Control = Up to 75% Adhesive Usage Reduction

The MX electric valve is controlled by an EcoStitch driver that produces an intelligent dot and gap glue pattern that is configurable by the customer for their unique product requirements. Adhesive savings can be tailored between 10%-75%

3

Removing Compressed Air + Eliminating the Gun Solenoids = Reduced Maintenance

The most frequent downtime on packaging lines involves changing failed pneumatic glue modules, plugged nozzles, and solenoids. Switching to electric guns eliminates the need for gun solenoids and modules that can be soiled and worn with a dirty, wet, and sometimes inconsistent air supply. By using electric guns, the lifespan of a valve module can be more than 2 billion cycles, depending on adhesive.

4

Adhesive Savings + Minimizing Spare Parts Stock = Instant ROI

With fewer moving parts virtually eliminating the chances of failure, the spare parts stock is reduced to a minimum, resulting in lower investment, storage costs and downtime associated with the replacement of parts. On the other hand, the reduction in adhesive usage brings additional savings that guarantee payback in as little as 4 months.

5

BETTER CASES & CARTONS - IMPRESS YOUR CUSTOMER!



EcoStitch applies precision dots of adhesive in place of traditional lines or short line stitch. The EcoStitch system doesn't produce "angel hair" and has zero dynamic seals in the applicators therefor eliminating parts changes and usage of items such as nozzles, air solenoids and glue modules.

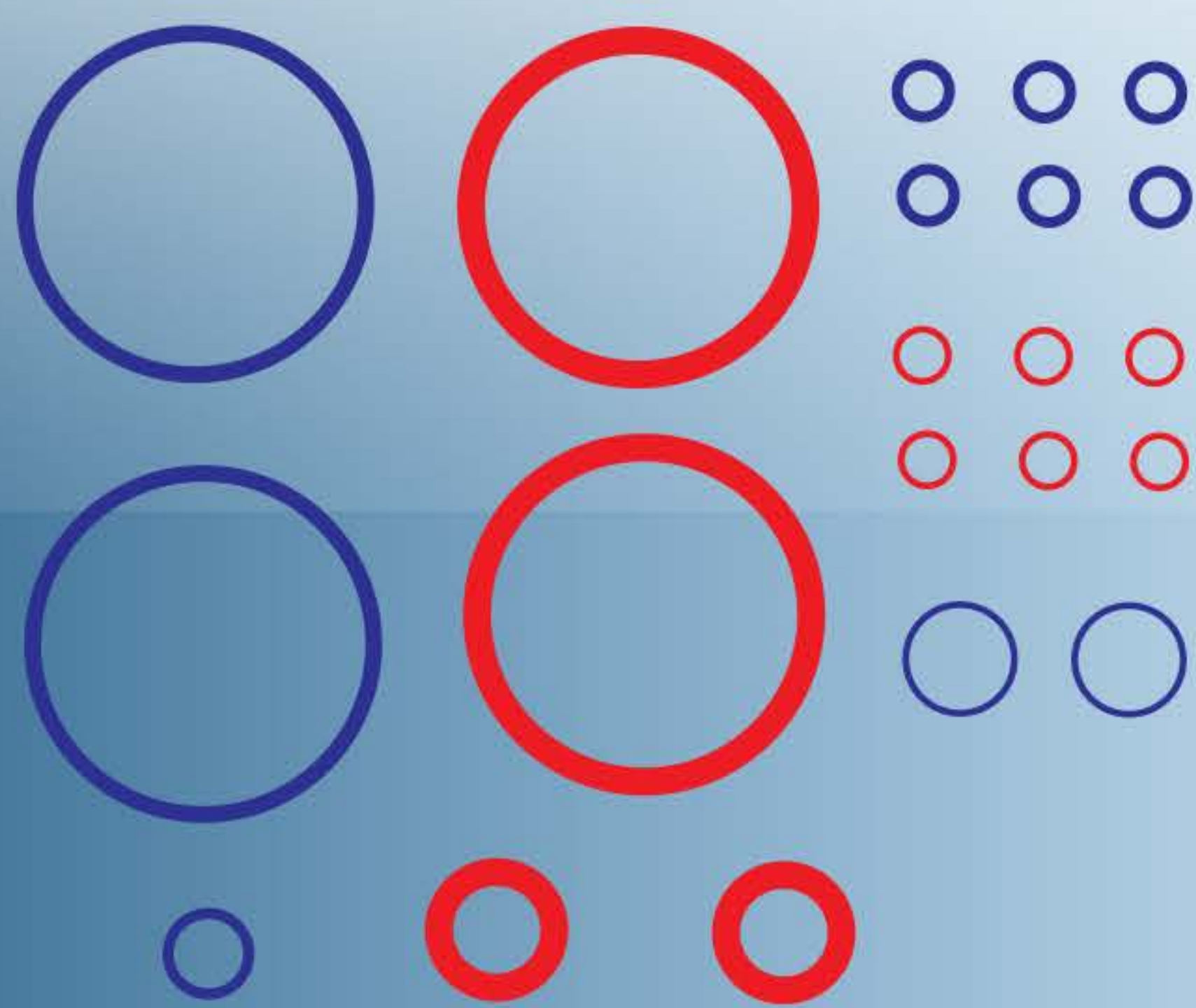
Therefore:

- No more "angel hair" buildup on machine or on ink jet printer heads
- No more downtime related to glue system troubleshooting and/or parts changes.
- No more compressed air required to operate glue system
- Greater machine speed capabilities

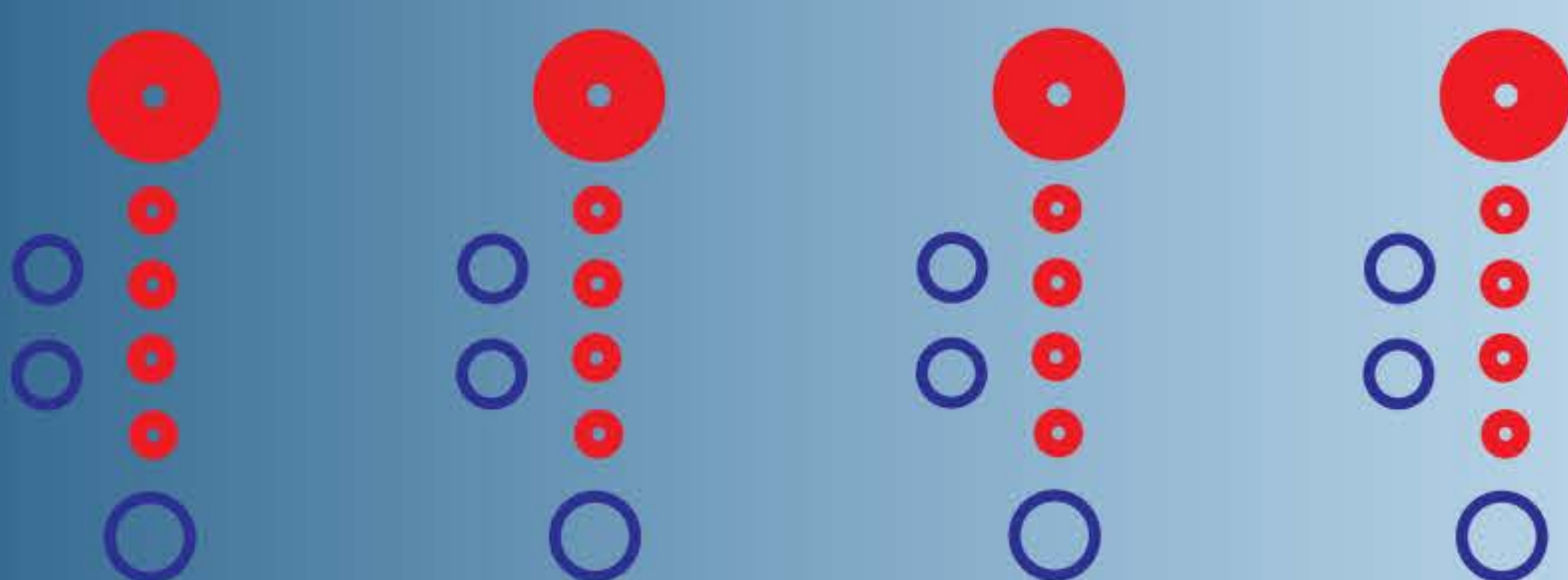
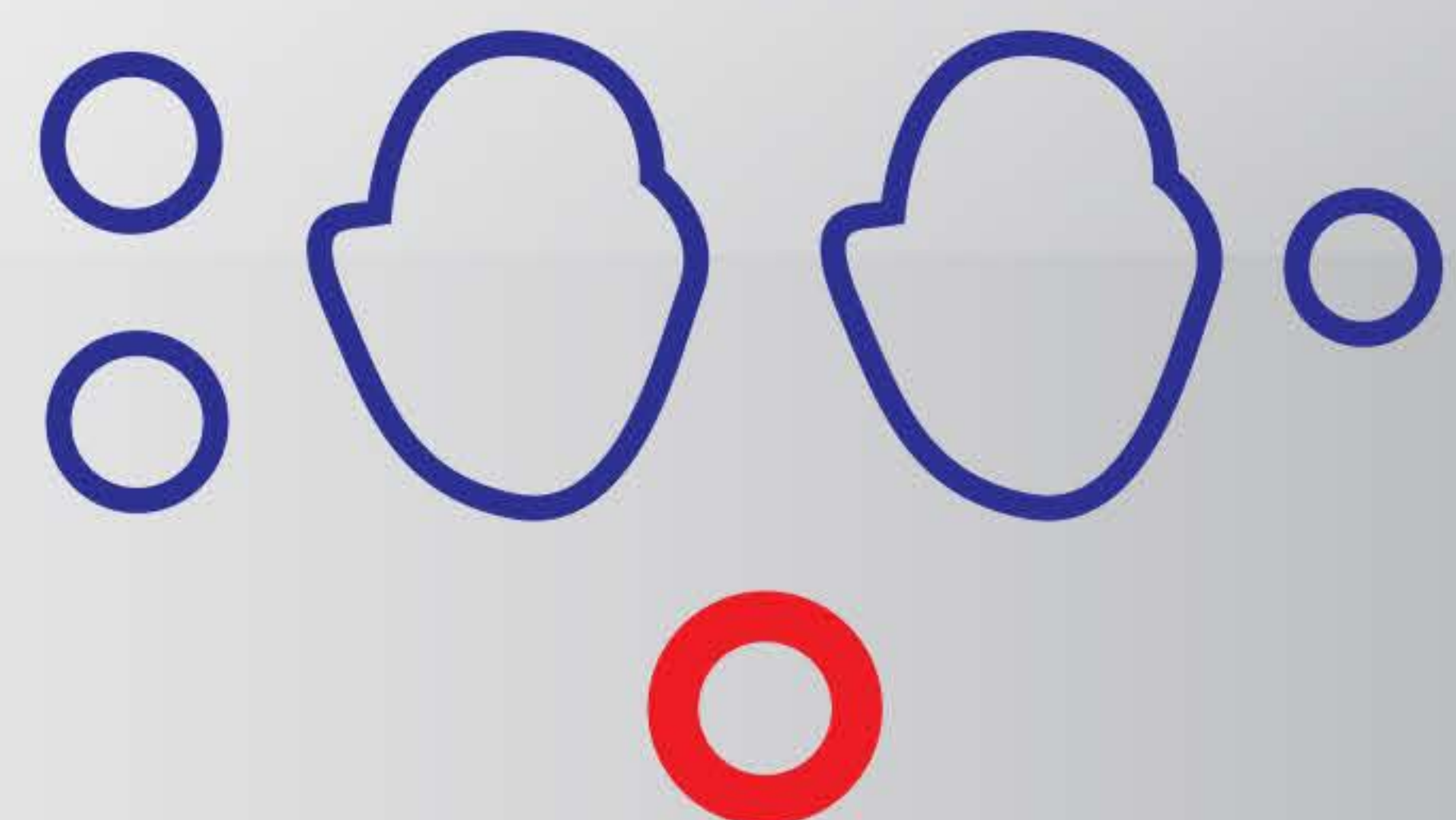
How Do Seals Impact My Investment? *The Big Picture*

Here is a clear visual example that compares the all-electric hot melt system to the pneumatic option. By removing additional seals, you minimize the chance of valve failure, the cost to replace the loose parts, and the downtime associated with it.

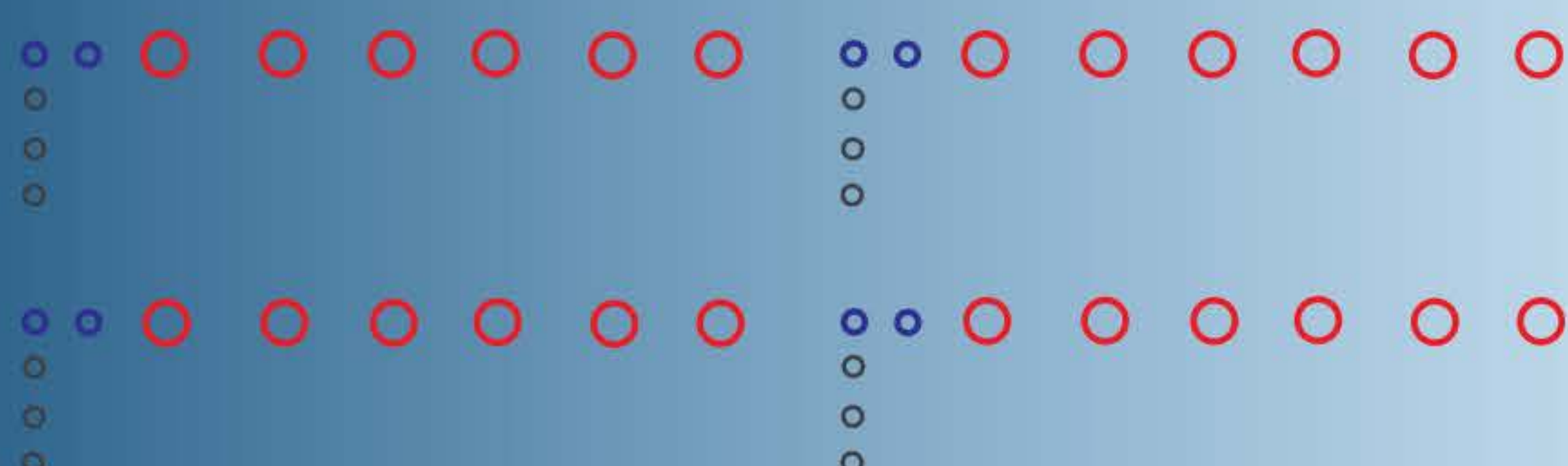
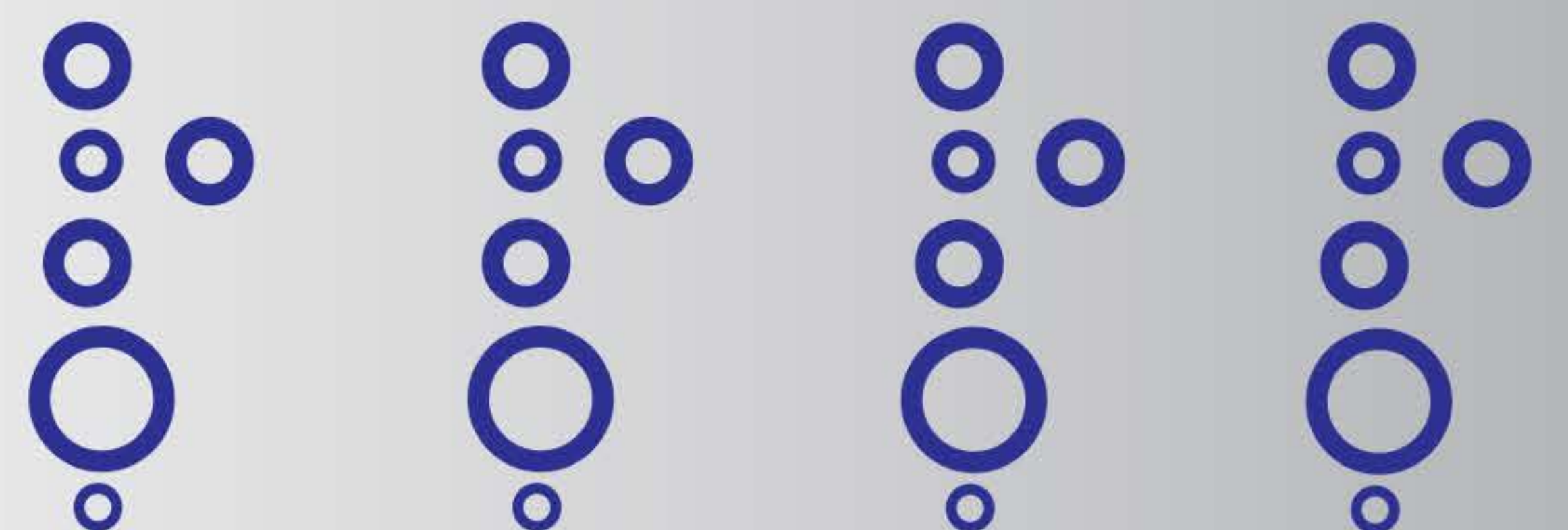
○ = Dynamic Seals
○ = Static Seals



Pump Seals



Valve Seals



Air Solenoids

Traditional Pneumatic
and Tankless Systems

Valco Melton EcoStitch
All-Electric System

ECOSTITCH IN ACTION

THE VD-2E

- Independent control of the pattern through EcoStitch or bead setting
- Customize your adhesive pattern with EcoStitch's unique "dot" and "gap" settings
- Improve operator effectiveness with simplified setup and programming tasks
- Quick installation with plug-and-run connectors
- Switch between dots and beads with the press of a button
- Users can easily configure the stitch or bead parameters as well as dot placement and gap size with the simple press of a button.



MX GUNS

- Built-in Filter with each MX gun continually filters adhesive without having an external housing that acts as a hot spot and additional SKU to stock.
- The MX valves can operate cleanly and precisely with nearly any adhesive formula. Viscosity ranges from 200cps up to over 6,000cps.
- The MX electric valve can operate 6-10 times faster than the world's fastest air solenoid.
- The MX valve design is capable of routinely reaching well over 2 billion cycles.

D SERIES MELT UNITS

- The D series melters feature an electric gear pump with optional variable speed drive motor for precise adhesive pumping and supply.
- Custom Designed adhesive reservoir has PTFE Teflon coating to reduce char and allow for easy filling/cleaning.
- Fully Integrated Auto feed system, pump size configuration, line speed tracking are all available features on the D series melters.
- All D series melters offer all electric operation and do not require compressed air.



To learn more about how Valco Melton's EcoStitch can save your company money, contact us today!



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