VIAjet™ V | SERIES

Powered by MPERIA®, Matthews' VIAjet™ V-Series marking system features our reliable Drop-on-Demand (DOD) valve technology which marks on porous and non-porous substrates including metal, paper and pulp, wood, concrete and plastic stic. Matthews' DOD valve print heads are considered the fastest in the industry, marking products at speeds over 800 fpm (244 m / min), with the longest life - over 6 billion firings per head.

The V-Series features large character printing, ranging from 1/8" to 5" (3 mm to 127 mm) and the capability to stack print heads for large logos. These features, combined with its rugged design, make V-Series ideal to meet the demands of extreme environments, such as building products, steel mills and other industrial environments.

The VIAjet™ V-Series is powered by the MPERIA® platform. The MPERIA® controller effectively manages messages and settings for multiple printers across one or several production lines or plant locations. An extensive selection of pre-formatted and configurable counters, batch controls, user-defined text fields and barcode symbologies makes message creation and selection a breeze with the intuitive touchscreen interface. Seamless integration with ERP/MRP/WMS syetems helps to reduce coding errors. Best of all, MPERIA® is expandable, allowing you to add other print heads or other print technologies as needed, promising a sound secure investment. Our DOD valve technology and MPERIA® controller are connected by V-Link, an enclosed module featuring an internal power supply and print head driver board. Each V-Link drives up to 32 valves (1-4 print heads). Multiple of V-Links can be stacked and networked through MPERIA®, providing a flexible and scalable system for small or very large applications.

- Longest life for DOD valve print heads, with over 6 billion activiations between rebuilds
- Extensive selection of fast dry and / or pigmented inks available
- 7"-12" (177mm - 304mm) touchscreen controllers are available with various IP ratings and performance depending on your demand
- Remote connectivity (Virtual Network Computing)
- Effortless integration with ERP/MRP/WMS systems

Matthews Marking Systems™

VIAjet™ V-Series Technical Specifications

MPERIA™ Platform

MPERIA™ Controller [1]	• Controls multiple production lines • Combination of multiple inkjet technologies • Stack print heads for extra print height and resolution • Touchscreen interface • Built-in database • IP20 / IP65 versions • Network-ready • Simple message creation & editing • Application-specific plugins • Password-protected user levels • Troubleshooting / maintenance screens • Virtually no storage limits for number of messages / logos, message length, types of barcodes and time codes, etc. • Available in 7"-15" • On-board image editor • Virtual simulator • Intuitive program design • Windows / Codesoft driver • TrueType fonts, grayscale / color images • Guided installation / configuration • Multilingual with full BIDI support
Communications & Networking	• Ethernet-based with advanced connectivity possibilities for ERP-systems, computers and PLC's • Remote User Interface control via VNC
Print capabilities	• Static and dynamic text fields • Logos • Date and time clocks • Sequential and batch counters • True type fonts with density settings • Bi-directional printing • Barcodes and 2D codes

[1] Find detailed information about our MPERIA™ controllers on the MPERIA™ controller data sheet.

8000⁺ Series Printheads

	Printhead Type	Minimum Character Size	Maximum Character Size	Rec. Print Distance
8000⁺ Maxi Max. speed: 780 fpm[1]	7-Valve 16-Valve 32-Valve	1/4" (6.35 mm) 1/4" (6.35 mm) 1/4" (6.35 mm)	1 ¼" (31.75 mm) 2 ½" (63.5 mm) 5" (127 mm)	1/2" (12.7 mm) 1/2" (12.7 mm) 1/2" (12.7 mm)
8000⁺ Midi Max. speed: 120 fpm[2]	7-Valve 16-Valve 32-Valve	3/16" (4.76 mm) 3/16" (4.76 mm) 3/16" (4.76 mm)	1 ¼" (31.75 mm) 2 ½" (63.5 mm) 5" (127 mm)	3/32" (2.28 mm) 3/32" (2.28 mm) 3/32" (2.28 mm)
8000⁺ Mini Max. speed: 120 fpm[2]	7-Valve 16-Valve 32-Valve	3/32" (2.38 mm) 3/32" (2.38 mm) 3/32" (2.38 mm)	3/32" (2.28 mm) 3/32" (2.28 mm) 3/32" (2.28 mm)	1/4" (6.357 mm) 1/4" (6.357 mm) 1/4" (6.357 mm)

[1] At 1.8 mm spacing
[2] At 1.0 mm spacing

V-Series V-Link

Number of Printheads	1-4 (32 valves maximum)
Number of Production Lines / Controlled by Single V-Link	Up to 2 triggers and 2 encoders per V-Link
Electrical Operating Conditions	90 - 264 V AC 50-60 Hz 2.5 A Temp: 32-113° F (0 - 45° C) Humidity: 0 - 90 % non-condensing IP53
Mounting Options	Wallmount, bookshelf mount, DIN-rail mount
Features	Individual dot size control, electronic valve adjustment, seamless printing on multiple products simulatenously

Ink Delivery Systems

• Various available systems ranging from 2 x 1 liter capacity up to large capacity (19 liters / 5 gallon) or 208 liters / 55 gallon
• Dye-based or circulatory for pigmented inks
• Integrated low ink warning and warning output signals

Inks

• For porous and non-porous applications, as well as opaque and pigmented applications
• Recommended for building products, metal sheet, profile products, paper, pulp, wood, concrete, plastics, packaging, and other challenging substrates
• Available as water-based, water fast, alcohol (n-propylene, isopropylene, ethanol), ethyl acetate, MEK, acetone, heptane and other specialty solvents

Matthews Marking Systems™