



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.

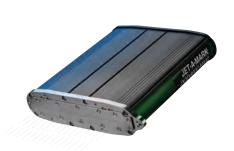
The VIAjet™ V-Series is powered by the MPERIA® platform. The MPERIA® controller effectively manages messages and settings for multiple printers across one or several production lines or plant locations. An extensive selection of pre-formatted and configurable counters, batch controls, user-defined text 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











# **VIAjet™ V-Series Technical Specifications**

## MPERIA™ Platform

MPERIA™ Controller <sup>(1)</sup>	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

<sup>(1)</sup> Find detailed information about our MPERIA™ controllers on the MPERIA™ controller data sheet.

### 8000+ Series Printheads

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

<sup>(1)</sup> 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 2.5A 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 2x1 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

