VIAjet™ V | SERIES

A large character drop-on-demand valve marking system specifically designed for challenging industrial applications.

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. Matthews' DOD valve print heads are considered the fastest in the industry, marking product at speeds over 800 fpm (244 meters/min), with the longest life - over 6 billion firings per head.

The V-Series features large character print, ranging from 1/8" to 5" (3mm to 127mm), 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 challenging industries.

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 counts, user-defined text fields, and barcode symbologies makes message creation and selection a breeze with the intuitive, touch screen interface. Seamless integration with ERP/MRP/WMS systems 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). Hundreds of V-Link's 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" or 15" MPERIA™ controllers are Ethernet ready, Linux based PC, with touch screen display
- Remote connectivity (Virtual Network Computing)
- Effortless integration with ERP/MRP or WMS systems

Ink-Jet Printing | Contact Printing | Indenting | Etching | Laser | Inks | Integrated Solutions | Software

Pittsburgh, PA | P 412.665.2500 | F 412.665.2550
Mölndal, Sweden | P 46.31.338.7900 | F 46.31.84.51.17
Beijing | P 86.10.88796525 | F 86.10.88796526
www.matthewsmarking.com

VIAjet™ V-Series
Technical Specifications

MPERIA™ PLATFORM

MPERIA™ Controller[1]	– Controls multiple production lines – Mix multiple ink jet technologies – Stack print heads for extra print height and resolution – Touch screen 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/config – Multilanguage 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 (ITF, ITF-14, Code 39, EAN8, EAN13, UPC-A, Code 128, GS1-128, GS1-Databar, GS1-Datamatrix, QR codes)

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

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.

V-SERIES V-LINK

Number of Printheads	1-4 (32 valves maximum)
No. of Production Lines Controlled by Single V-Link	1-2 up to 2 triggers and 2 speed encoders per V-Link
Electrical:	90-264VAC 50-60Hz 2.5A
Operating Conditions:	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 simultaneously.

8000+ Series Printheads

	Printhead Type	Min. Char. Size	Max. Char. Size	Rec. Print Distance
8000+ Maxi Max speed: 780 fpm[1] 3.96 mps	7-Valve	1/4" (6.35 mm)	1 ¼" (31.75 mm)	1/2" (12.7mm)
	16-Valve	1/4" (6.35 mm)	2 ½" (63.5 mm)	1/2" (12.7mm)
	32-Valve	1/4" (6.35 mm)	5" (127 mm)	1/2" (12.7mm)
8000+ Midi Max speed: 400 fpm[2] 2.03 mps	7-Valve	3/16" (4.76 mm)	1 ¼" (31.75 mm)	1/2" (12.7mm)
	16-Valve	3/16" (4.76 mm)	2 ½" (63.5 mm)	1/2" (12.7mm)
	32-Valve	3/16" (4.76 mm)	5" (127 mm)	1/2" (12.7mm)
8000+ Mini Max speed: 400 fpm[2] 2.03 mps	7-Valve	3/32" (2.38 mm)	1 ¼" (31.75 mm)	1/4" (6.357mm)
	16-Valve	3/32" (2.38 mm)	2 ½" (63.5 mm)	1/4" (6.357mm)
	32-Valve	3/32" (2.38 mm)	5" (127 mm)	1/4" (6.357mm)

(1) At 1.8 mm spacing   (2) At 1.0 mm spacing

MPERIA™

V-LINK

8000+ PRINT HEAD