Matthews Large Character DOD

Matthews Marking Systems

MPERIA® V-Series™ drop-on-demand valvejet printheads offer incredible print quality in flexible configurations and feature one of the fastest speeds in the industry. And because they feature long-life printheads, your production lines continue to run at the highest efficiency. Engineered for operating in harsh and demanding environments, the MPERIA V-Series provides unmatched reliability.

V-Series Printheads

These Drop-on-Demand (DOD) systems feature the longest life and most reliable printhead in the industry. The exclusive micro-valve technology dramatically lowers ink consumption while maintaining impressive quality and speed. Our robust 8000+ series printheads produce a high-resolution mark by overlapping a series of smaller dots.

- 7, 16, and 32 valve printhead options
- 9 billion firings per head
- The most robust and reliable in the industry
- Large character marking
- Small character marking

V-Link

The enclosed module featuring an internal power supply and printhead driver board, enables communication between the DOD printhead technology and the MPERIA controller through an Ethernet connection. V-Links can be stacked and networked through MPERIA®, providing a flexible and scalable system for small or very large applications.

- Mounting options: wall mount, bookshelf, DIN rail
- Controls 1-4 printheads (32 valves max)
- Controls up to 2 triggers and 2 encoders

MPERIA Controller

The MPERIA marking and coding automation platform centralizes control of your marking technology, regardless of equipment technology or vendor. Controllers are available in a range of screen sizes and in enclosures with ratings for harsh environments, including IP40, IP54, IP55, and IP65.

- Available in 7, 12 and 15 inch models
- IP ratings include: IP42, IP54, Ip40, IP54, IP65
- Integrates with any ERP system or database
- Control third party devices and printing technologies

Technical Specifications

7 Valve Printhead
Mini, Midi, Maxi Nazzle Options

16 Valve Printhead
Mini, Midi, Maxi Nazzle Options

32 Valve Printhead
Mini, Midi, Maxi Nazzle Options

V-Series prin-thead	PRINTHEAD TYPE	MINIMUM CHA-RACTER SIZE	MAXIMUM CHA-RACTER SIZE	MAXIMUM SPEED	MAXIMUM PRINT DISTANCE[3]	3-WAY VALVE[5]	DIMENSIONS
8000+ Maxi	7-Valve 16-Valve 32-Valve	1/4" (6.35 mm)	7-VALVE: 1 1/4" (31.75 mm)	780 ft/min(1) (240 m/min)	1/2" (12.7 mm)	16-Valve 32-Valve	7-VALVE: 7.52"L x1.68" W x 4.84" H (191x 42.7x123 mm)
8000+ Midi		3/16" (4.76 mm)	16-VALVE: 2 1/2" (63.5 mm)				16-VALVE: 7.48"L x1.73" W x 6.26" H (190 x 44 x159 mm)
8000+ Mini IP65-7-valve printhead(4) available for washdown applications		3/32" (2.38 mm)		400 ft/min(2) (120 m/min	1/4" (6.4 mm)		32-VALVE: 7.48"L x1.73" W x 8.80" H (190 x 44 x 223.4 mm)
Inks	Water-based, Water-fast, Alcohol (n-propylene, isopropylene, ethenol). Ethyl Acetate, MEK, Acetone, Pigmented						

[1] At 1.8 mm spacing. (2) At 1.0 mm spacing. (3) At <200 fpm. (4) IP65 3.4" Diameter x 5.2" L (87.5 x 132 mm).

[5] Unique 3-way valve enables you to quickly purge solvent, minimizing maintenance and downtime.

PLASTIC PIPE

METAL

WOOD