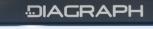# DIAGRAPH

IV4000 INTEGRATED VALVE JET SYSTEM

The IV4000 Integrated Valve Jet System is designed to consistently print highly readable alphanumeric messages on porous and non-porous surfaces in the most challenging of industrial environments — providing one of the lowest cost per marks in the industry. Configure multiple IV9-dot (½" or ⅞") and IV18-dot (1" or 2") printheads in any combination totaling up to 144 vertical dots.

Optimal performance in industrial environments due to 100% sealed integrated valve printhead design

Stainless steel controller seamlessly integrates printheads, ink systems, sensors and networking functions for expanded capabilities

Smart connection hub design combines system controls with ink delivery components, allowing the system to control printing for multiple production lines from remote locations

KEY FEATURES

- **Porous and non-porous printing** on surfaces such as paper, corrugate, plastic, wood, drywall, metal, PVC, etc.

- **Achieves long-distance readability** on alphanumeric print messages including date codes, lot/batch codes, product name, contents and descriptions

- **Reduce ink consumption by as much as 50%** with the lower contrast Draft Mode ink conservation feature

- **High speed print performance** for applications requiring speeds up to 650 feet per minute

SPECIFICATIONS

Controller	IJ4000 HMI or IJ4000 HH
Touch Screen Display	10.2" (25.9 cm) Stainless Steel Color or 7" (17.8 cm) Plastic Color
Operator Interface	Graphic User Interface (GUI), WYSIWYG Editor
QWERTY Keypad	Pop Up on Touch Screen
Enclosure	Stainless Steel, Environmentally Sealed
Memory	512 MB
Connectivity	1-Ethernet, 1- USB, 2-RS232
IO Interface	IO Board Optional
Auto Codes	Time, Date, Use By, Julian, Count, User Defined, Shifts, Variable Input
Logos	Bitmap Images, Multiple Formats
Fonts	True Type Available

PC Interface	
Windows PC GUI Software	Graphic User Interface (GUI), WYSIWYG Editor
Network Software w/Database	Yes
Direct Interface	Protocol Provided

Printheads	IV9-Dot and IV18-Dot
Technology	Drop on Demand (Integrated Valve Jet)
Print Height	1/2" and 7/8" (IV9-Dot), 1" and 2" (IV18-Dot) Printheads
Print Resolution	9 x 25 dpi (IV9-Dot), 18 x 25 dpi (IV18-Dot)
Standard Print Speeds	Up to 200 fpm
Print Speeds with Reduced Resolution	Up to 650 fpm
Print Options	Side, Angled, Top Down, Bottom Up
Print Throw Distance	Up to 1/2"

Ink Systems	
System Type	Large Bulk Supply
Ink Delivery	Centralized Ink Delivery for Multiple Printheads
Ink Supplies	5 and 30 Gallon
Ink Types	Porous, Non-Porous, Water Based, Solvent Based – Including Non-VOC Solvent Inks

System	
Regulatory Listings	TUV (CE/CSA/UL)
Operating Environment	40°F to 104°F (5°C to 40°C)