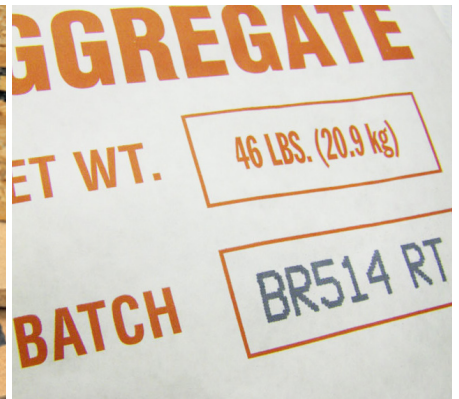# Mperia V-Series

Low ink consumption and increased reliability.

– Tilt function for variable character height

– High quality prints at line speeds, up to 240 m/s

– Patented nozzle design to eliminate nozzle blockages

Matthews drop on demand (DOD) technology has a performance record of solving the most challenging, industrial and packaging coding applications.

Our new Mperia V-Series 8000+ printheads deliver low ink consumption with high print quality and improved speeds. Find your recommended solution by selecting the printhead for your application.

Robust

Matthews Swedot print heads, which constitute the heart of the printing system, are based on a patented valve technology.

Precision jewels set in a stainless steel faceplate provide dramatically lower ink consumption and high print quality To describe it simply, our printheads propel drops of ink from a pressurized ink chamber when a sealing valve is quickly opened by a magnetic force. Using drop on demand (DOD) technology our fastest valves can produce as many as 3000 drops per second.

Reliability

With only one moving part, this printhead features a more reliable design with extremely long standby times and reduced maintenance requirements. With 500 times less ink in the plunger, this new range of printheads not only achieves high resolution printing but also lower ink consumption. The extremely short nozzle path (<10mm) ensures that any dried ink simply pushes out after extended standby.

Flexibility

The Mperia V-Series 8000+ printheads present the flexibility to easily modify character heights from 5mm and 128mm, large character marking can be achieved by stacking several printheads on top of each other to make large graphic, such as a logotype. Numerous lines of text are possible or higher resolution graphics with the selection of 7, 16 or 32 valves combination. Fast start-up and color change without purging.

Matthews
INTELLIGENT IDENTIFICATION

Technical Specifications Mperia V-Series 8000+ Printheads

	Printhead Type	Min. Char. Size	Max. Char. Size	MAX SPEED[1]	Max. Print Distance[3]	3-Way Valve[5]	Dimensions
8000+ Maxi	8000+ 7-Valve	1/4" (6.35mm)	1 1/4" (31.75mm)	780fpm[1]/3.96mps	1/2" (12.7mm)		7.52"L x 1.68"W x 4.84"H (191 x 42.7 x 123mm)
	8000+ 16-Valve	1/4" (6.35mm)	2 1/2" (63.5mm)	780fpm[1]/3.96mps	1/2" (12.7mm)	Yes	7.48"L x 1.73"W x 6.26"H (190 x 44 x 159mm)
	8000+ 32-Valve	1/4" (6.35mm)	5" (127mm)	780fpm[1]/3.96mps	1/2" (12.7mm)	Yes	7.48"L x 1.73"W x 8.80"H (190 x 44 x 159mm)
8000+ Midi	8000+ 7-Valve	3/16" (4.76mm)	1 1/4" (31.75mm)	400fpm[2]/2.03mps	1/2" (12.7mm)		7.52"L x 1.68"W x 4.84"H (191 x 42.7 x 123mm)
	8000+ 16-Valve	3/16" (4.76mm)	2 1/2" (63.5mm)	400fpm[2]/2.03mps	1/2" (12.7mm)	Yes	7.48"L x 1.73"W x 6.26"H (190 x 44 x 159mm)
	8000+ 32-Valve	3/16" (4.76mm)	5" (127mm)	400fpm[2]/2.03mps	1/2" (12.7mm)	Yes	7.48"L x 1.73"W x 8.80"H (190 x 44 x 223.4mm)
8000+ Mini IP65- 7-Valve Printhead available for washdown applications.[4]	8000+ 7-Valve	3/32" (2.38mm)	1 1/4" (31.75mm)	400fpm[2]/2.03mps	1/4" (6.35mm)		7.52"L x 1.68"W x 4.84"H (191 x 42.7 x 123mm)
	8000+ 16-Valve	3/32" (2.38mm)	2 1/2" (63.5mm)	400fpm[2]/2.03mps	1/4" (6.35mm)	Yes	7.48"L x 1.73"W x 6.26"H (190 x 44 x 159mm)
	8000+ 32-Valve	3/32" (2.38mm)	5" (127mm)	400fpm[2]/2.03mps	1/4" (6.35mm)	Yes	7.48"L x 1.73"W x 8.80"H (190 x 44 x 223.4mm)
Controllers	Mperia, SX32e, V84, V80i						
Inks	Water based, Water fast, Alcohol (n-propylene, ethanol), MEK, Acetone, Pigmented.						

(1) At 1.8mm spacing   (2) At 1.0mm spacing   (3) At <200 fpm   (4) IP65 3.4" Dia. x 5.2" L (87.5 x 132.0mm)
(5) Uniquie 3-way valve enables you to quickly purge solvent, minimizing maintenance and downtime.

5-6 times longer life time to meet tomorrow's demand from the industry

Improved print quality at higher speeds

All print heads are classified IP54
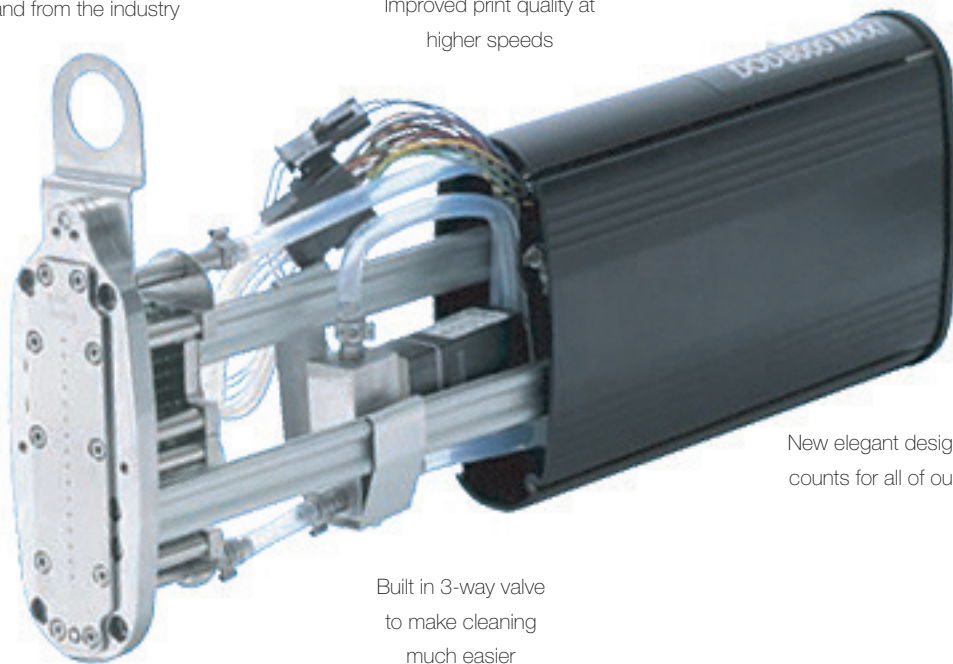
New elegant design which now counts for all of our print heads

Built in 3-way valve to make cleaning much easier

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