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Most of our production-line machines can mark your lumber product in various ways. From the options listed here, you may select the equipment that will give you the best quality, style, and location of ink marking.

Description

Metriguard offers a variety of single nozzle and multiple nozzle and valve arrays for marking wood products. Our nozzles are available with 115 Vac and high-speed low-voltage solenoid control in several mounting configurations with or without ink tank systems. These systems, on a variety of Metriguard products, are available for use anywhere ink spray marking is required.

Metriguard's patented single-shooter, four-shooter, and six-shooter spray nozzle assemblies produce spray markings on wood products or other material at relatively large nozzle-to-target spacings. The stainless steel nozzle assemblies mix ink externally with air and use air to transport the ink to a target material. They are specially designed to minimize clogging problems and allow fast, easy cleaning should a clog occur.

The Metriguard single-shooter spray nozzle assembly contains a nozzle with a single air orifice adjacent to a single ink orifice. It may be used alone to mark with one color, or in an array to mark a common target area with a variety of

colors. The nozzle assembly will color-code information on wood products or other material.

The Metriguard four-shooter and six-shooter spray nozzle assemblies contain nozzles with a single air orifice and four or six ink orifices. They provide an alternative to using an array of single-shooters to mark a common target area.

Nozzles are controlled by 115 Vac 50/60 Hz or 24 Vdc solenoids for normal operation or by high-speed 12-volt dc solenoids for applications requiring high-speed, precise control of mark location (high-speed control requires a special controlling apparatus like the Metriguard PC Data System).

Ink is supplied to the nozzles from pressurized ink tanks. Metriguard nozzle assemblies use air to transport ink to a target material. During operation, air constantly flows through the nozzle, with ink added to the air stream by valve control. External mixing of ink with air prevents backflow of ink into the air line or of air into the ink line.

Specifications

Single-Shooter Spray Nozzle Block (PNE-NOZ-1001)

Channels	1
Response Time.....	30 ms with 115 Vac solenoid valves
Voltage / Valve Required	115 Vac/PNE-VAL-1001 24 Vdc/PNE-VAL-1000
Ports	1/8 NPT
Size (L x W x H).....	1.4 x 0.75 x 1.1 in (36 x 19 x 28 mm)
Weight	10 oz (280 g)
Material.....	Stainless Steel



Single-Shooter Nozzle Assembly (SYS-ASM-1007/115 Vac or SYS-ASM-1052/24 Vdc)

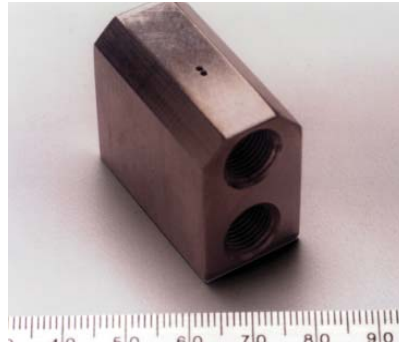
Channels	1
Response Time.....	30 ms with 115 Vac solenoid valves
Voltage / Valve Used	115 Vac/PNE-VAL-1001 24 Vdc/PNE-VAL-1000
Size (L x W x H).....	1.5 x 2.5 x 3.5 in (38 x 60 x 89 mm)
Weight	10 oz (280 g)



Spray Marking Options

Single-Shooter Spray Nozzle Block (high speed) (PNE-NOZ-1002)

Channels	1
Response Time.....	4 ms
Voltage.....	12 Vdc
Ports	1/8 NPT
Valve Required	PNE-VAL-1002
Size (L x W x H).....	1.4 x 0.75 x 1.1 in (36 x 19 x 28 mm)
Weight	10 oz (280 g)
Material.....	Stainless Steel



Single-Shooter Spray Assembly (high speed) (SYS-ASM-1014)

Channels	1
Response Time.....	4 ms
Voltage.....	12 Vdc
Ports	1/8 NPT
Valve Used	PNE-VAL-1002
Size (L x W x H).....	2.1 x 0.75 x 2.4 in (53 x 19 x 61 mm)
Weight	6 oz



Four-Shooter Spray Nozzle Block (PNE-NOZ-1003)

Channels	4
Response Time.....	30 ms with 115 Vac solenoid valves
Voltage / Valve Required	115 Vac/PNE-VAL-1001 (4 ea) 24 Vdc/PNE-VAL-1000 (4 ea)
Ports	1/8 NPT
Mount.....	1/4-20 threads
Size (L x W x H).....	1.5 x 1.5 x 2 in (38 x 38 x 51 mm)
Weight	2 lbs (0.9 g)
Material.....	Stainless Steel



Four-Shooter Nozzle Assembly (SYS-ASM-1007/115 Vac or SYS-ASM-1050/24 Vdc)

Channels	4
Response Time.....	30 ms with 115 Vac solenoid valves
Voltage / Valve Used	115 Vac/PNE-VAL-1001 (6 ea) 24 Vac/PNE-VAL-1000 (6 ea)
Size (L x W x H).....	6.5 x 6.5 x 5.75 in (165 x 165 x 146 mm)
Weight	3.2 lbs (2 kg)



Spray Marking Options



Four-Shooter Spray Nozzle Block (high speed) (PNE-NOZ-1004)

Channels 4
 Response Time..... 4 ms
 Valve Required PNE-VAL-1002 (4 ea)
 Ports 1/8 NPT
 Mount..... 1/4-20 threads
 Size (L x W x H)..... 1.5 x 1.5 x 2.1 in
 (38 x 38 x 53 mm)
 Weight 2 lbs (0.9 g)
 Material..... Stainless Steel



Four-Shooter Nozzle Assembly (high speed) (SYS-ASM-1006)

Channels 4
 Response Time..... 4 ms
 Valves Used..... 4 x PNE-VAL-1002 (4 ea)
 Size (L x W x H)..... 4.2 x 4.2 x 7 in
 (107 x 107 x 173 mm)
 Weight 8 lbs (4 kg)
(Shown here without mounting plates or junction box.)



Six-Shooter Spray Nozzle Block (PNE-NOZ-1006)

Channels 6
 Ports 1/8 NPT
 Response time..... 30 ms w/115 Vac valves
 Voltage / Valves Required 115 Vac/PNE-VAL-1001
 (6 ea)
 24 Vdc/PNE-VAL-1002
 (6 ea)
 Mount..... 1/4 – 20 threads
 Weight 2 lbs (0.9 kg)
 Material..... Stainless Steel



Six-Shooter Nozzle Assembly (SYS-ASM-1008/115 Vac or SYS-ASM-1054/24Vdc)

Channels 6
 Response Time..... 30 ms w/ 115Vac valves
 Voltage / Valves Used..... 115 Vac/PNE-VAL-1001
 (6 ea)
 24 Vdc/PNE-VAL- 1002
 (6 ea)
 Size (L x W x H)..... 6.5 x 6.5 x 6.0 in
 (165 x 165 x 152 mm)
 Weight 8 lbs (4 kg)

Spray Marking Options

Six-Shooter Spray Nozzle Block (high speed) (PNE-NOZ-1007)

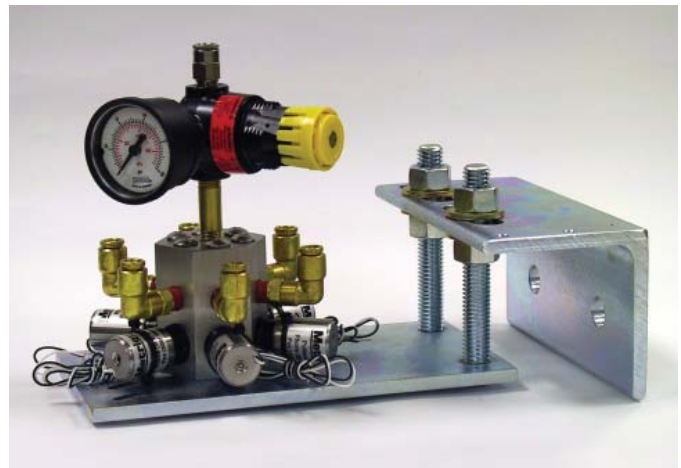
Channels	6
Response Time.....	4 ms
Valve Required	PNE-VAL-1002 (6 ea)
Ports	1/8 NPT
Mount.....	1/4-20 threads
Size (L x W x H).....	1.5 x 1.5 x 2 in (38 x 38 x 51 mm)
Weight	2 lbs (0.9 kg)
Material.....	Stainless Steel



Six-Shooter Nozzle Assembly (high speed) (SYS-ASM-1053)

Channels	6
Response Time.....	4 ms
Voltage.....	12 Vdc
Valves Used.....	PNE-VAL-1002 (6 ea)
Size (L x W x H).....	9.25 x 6 x 7 in (235 x 152 x 178 mm)
Weight	9 lbs (4.1 kg)

(Shown without junction box.)



Single-Shooter Nozzle Assembly (260-ASM-1001)

Channels	1
Response Time.....	30 ms with 115 Vac valves
Voltage.....	115 Vac
Valves Used.....	PNE-VAL-1001
Size (L x W x H).....	12 x 1 x 5 in (304 x 25 x 127 mm)
Weight	2 lbs (0.9 kg)



