

# UNIT FORMULA FULL CONE NOZZLES

## WIDE ANGLE SPRAY



### ■ FEATURES AND BENEFITS

- Full cone-shaped spray pattern with round impact coverage, spray angle of 120 degrees at 0.7bar.
- Unique vane design with large flow passages provides superior control and uniform distribution.
- Quick and easy spray tip replacement – remove tips by unscrewing the retainer cap.
- Lower cost – nozzle body can be reused – only spray tips are replaced.
- A large choice of interchangeable spray tips, body types/sizes, materials and accessories.
- Unit formula nozzle assemblies:
  - With NP3G-W tip: nozzle body, screen strainer, tip, tip retainer.
  - With NP3H-W tip: nozzle body, spray tip.

### ■ STANDARD UNIT FORMULA NOZZLE BODY

- FT female or MT male inlet connections



F female body



M male body



Screen strainer



Spray tip



Tip retainer

### ■ UNIT FORMULA SPRAY TIP

A typical assembly with NP3G-W tip will consist of a F female body or M male body, screen strainer, spray tip and tip retainer. A typical assembly with NP3H-W tip will consist of a F female body or M male body, spray tip and retainer. NP3G-W tips are designed so the spray tip serves as tip and retainer in one.

#### 【 NP3G-W 】



Spray tip only

#### 【 NP3H-W 】



Spray tip and tip retainer in one

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### TYPICAL APPLICATION

- Etching / Developing
- Cooling of primary metals and other materials
- Creating and dispersing drops in chemical reaction processing
- Gas regulation
- Dust control
- Gas scrubbing, washing, cooling
- Washing / Cleaning

### PERFORMANCE DATA

\*At the stated pressure in bar.

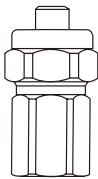
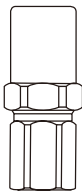
Body Inlet Conn. (in.)	Tip Type		Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Capacity (liters per minute)*										Spray Angle (°)*		
	NP3G-W	NP3H-W				0.4	0.5	0.7	1	1.5	2	3	4	6	0.4	0.7	6	
1/8 1/4	●	●	2.8W	1.6	1.0	.82	.90	1.0	1.2	1.4	1.6	2.0	2.3	2.8	-	120	102	
	●	●	4.3W	2.0	1.0	1.2	1.4	1.5	1.8	2.2	2.6	3.1	3.6	4.3	-	120	102	
	●	●	5.6W	2.4	1.0	1.6	1.7	2.0	2.4	2.9	3.4	4.1	4.7	5.6	-	120	102	
	●	●	8W	2.4	1.3	2.3	2.5	2.9	3.5	4.2	4.8	5.9	6.7	8.1	-	120	103	
1/4	●	●	10W	2.8	1.3	2.8	3.2	3.7	4.4	5.3	6.1	7.3	8.4	10.1	112	120	103	
	●	●	12W	3.2	1.3	3.4	3.8	4.5	5.3	6.4	7.3	8.8	10.1	12.2	114	120	103	
	●	●	14W	3.6	1.6	4.0	4.5	5.2	6.2	7.5	8.5	10.3	11.8	14.2	114	120	103	
3/8	●	●	17W	4.0	1.6	4.9	5.5	6.4	7.5	9.1	10.4	12.6	14.3	17.3	114	120	103	
	●	●	20W	4.4	2.4	5.8	6.4	7.5	8.9	10.7	12.3	14.8	16.9	19.9	114	120	104	
	●	●	24W	4.8	2.4	7.0	7.7	9.0	10.7	12.9	14.7	17.8	19.9	24.9	114	120	104	
	●	●	27W	5.2	2.8	7.9	8.7	10.2	12.0	14.5	16.6	19.9	22.9	27.9	114	120	106	
1/2	●	●	30W	5.6	2.8	8.7	9.7	11.3	13.4	16.1	18.4	21.9	24.9	30.9	114	120	108	
	●	●	35W	6.0	3.2	10.2	11.3	13.2	15.6	18.8	21.9	25.9	29.9	35.9	114	120	108	

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.  
Other body types may be available. Contact representative for further information.

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### DIMENSIONS AND WEIGHTS

Standard	Nozzle Type	Length (mm)	Hex. (mm)	Net Weight (kg)
	FT+NP3G-W	55	20.6	.09
	MT+NP3G-W	57	20.6	.07
	FT+NP3H-W	54.5	20.6	.09
	MT+NP3H-W	57	20.6	.09

Based on largest/heaviest version of each type.

### MATERIALS

Material	Material Code	Spray Tip	
		NP3G-W	NP3H-W
Brass	(none)	•	•
303 Stainless Steel	SS	•	•

Other materials available upon request

### ORDERING INFO

Unit Formula Complete Nozzle						
Nozzle Body				Spray Tip		
1/4	MT	-	SS	+	NP3G	- SS 10W
Inlet Conn.	Body Type	Material Code		Tip Type	Material Code	Capacity Size

BSPT connections require the addition of a "B" prior to the nozzle body inlet connection.

Mesh Selection Guide	
Orifice Dia. in. (mm)	Recommended Screen Mesh
Up through .018 (.46)	200
.019 (.47) through .031 (.79)	100
.032 (.80) and larger	50