



**Spraying Systems Co.**  
Experts in Spray Technology

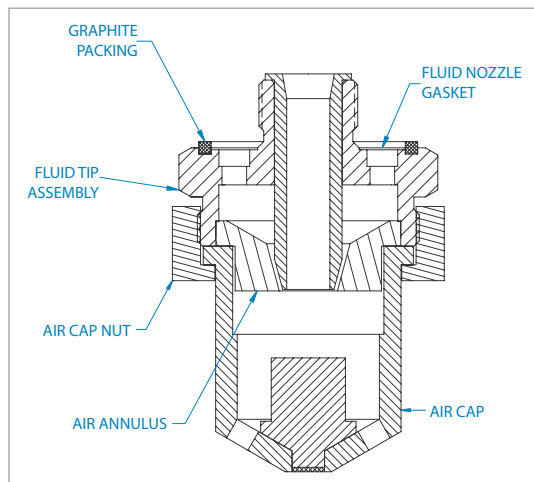
# High-Efficiency FloMax<sup>®</sup> Air Atomizing Nozzles

Unique atomization process produces smaller drops using less air than competitive nozzles and makes FloMax nozzles the preferred choice in gas conditioning applications.



## Description

### FloMax Air Atomizing Nozzles



Data sheets and performance information for the FM5A, FM10A and FM25A can be found at [www.spray.com/gasconditioning](http://www.spray.com/gasconditioning) or requested from your Spraying Systems Co. sales engineer.

Performance data, based on both constant air pressure and constant air volume, includes:



**Spraying Systems Co.**  
Experts in Spray Technology

P.O. Box 7900, Wheaton, IL 60189-7900 USA

Tel: 1.800.95.SPRAY Intl. Tel: 1.630.665.5000

Fax: 1.888.95.SPRAY Intl. Fax: 1.630.260.0842

[www.spray.com](http://www.spray.com)



Spray  
Nozzles



Spray  
Control



Spray  
Analysis



Spray  
Fabrication



# FloMax® "A" Series

## Parts List Numbering System

**A. Fluid Tip Body/Insert    FMT - 250<sup>1</sup>- XXX<sup>2</sup>- XX<sup>3</sup>/ XX<sup>4</sup>**

1. Air Inlet Orifice Diameter
2. Liquid Inlet Orifice Diameter
3. Standard Body Material 316SS [Optional – 310SS, 22HC]
4. Standard Insert Material 316SS [Optional – 310SS, 22HC, Stellite, RBSIC]

**B. Annular Insert        FMI - XXX<sup>1</sup>- XX<sup>2</sup>**

1. Air Guide Orifice Diameter
2. Standard Material 316SS [Optional – 310SS, 22HC, Stellite]

**C. Fluid Tip Gasket & Packing**

1. Gasket CP28593-002-XX Standard Material 316SS [Optional – 22HC]
2. Packing CP29699-001 Standard Material Gaphite

**D. Air Cap Retaining Nut        CP28548 - 104 - XX<sup>1</sup>**

1. Standard Material 316SS [Optional – 310SS, 22HC, Stellite]

**E. Air Cap        FMA - 8<sup>1</sup>- 188<sup>2</sup>- XX<sup>03</sup> - XX<sup>4</sup>**

1. Number of orifices in air cap
2. Size of individual orifices in air cap (determines free passage of atomizing assembly)
3. Standard Spray Angle 55° [Optional 20°]
4. Standard Material 316SS [Optional – 310SS, 22HC, Stellite, RBSIC]

**Notes:**

1. When ordering maintenance replacements, Air Cap and Annular Insert should be ordered at the same time to achieve consistent performance.
2. Optional Material – Quoted based on application. May be required in high temperature, erosive or corrosive environments.
3. Packing should be replaced everytime nozzle is removed.

**DESCRIPTION:**

FLOMAX® "A" SERIES PARTS LIST  
NUMBERING SYSTEM

FM5A, FM10A & FM25A  
AIR ATOMIZING NOZZLES



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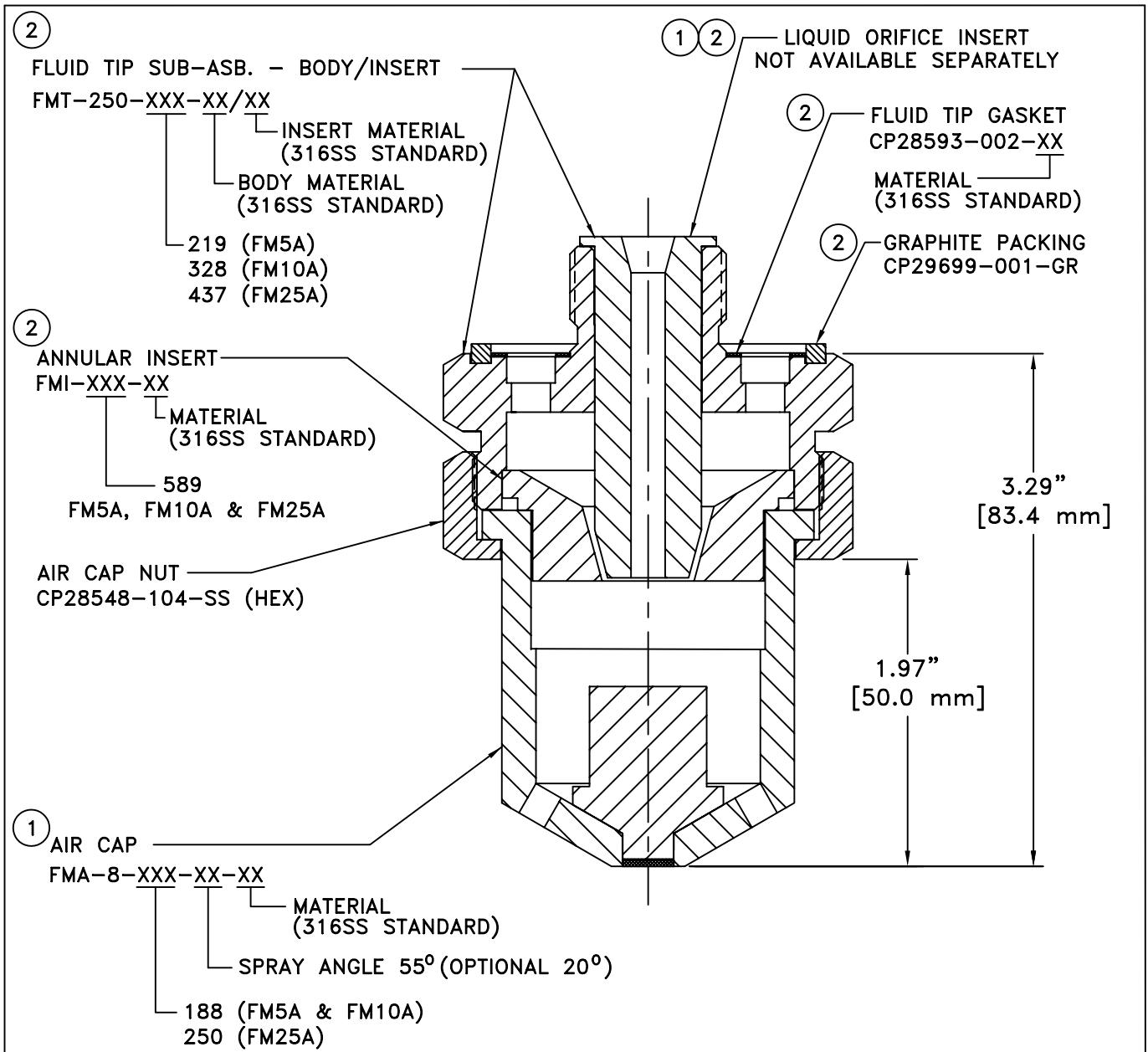
Rev. No. 5

Data Sheet No.

39801-1

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SHEET OF



① WETTED COMPONENTS IE., AIR CAP AND FLUID TIP INSERT ARE AVAILABLE IN ABRASION RESISTANT MATERIALS INCLUDING REACTION BONDED SILICON CARBIDE AND STELLITE. ALL OTHER COMPONENTS ARE FABRICATED OF 316SS UNLESS OTHERWISE SPECIFIED. SEE DATA SHEET 39801-1 FOR ADDITIONAL INFORMATION.

② FLUID TIP SUB-ASSEMBLY INCLUDES FLUID TIP GASKET, GRAPHITE PACKING, LIQUID ORIFICE INSERT, FLUID TIP BODY AND ANNULAR INSERT.

APPROX. WEIGHT - FM5A, FM10A & FM25A - 2.4 lbs [1.09 kg]

**DESCRIPTION:**  
FLOMAX® FM5A, FM10A & FM25A  
AIR ATOMIZING NOZZLES

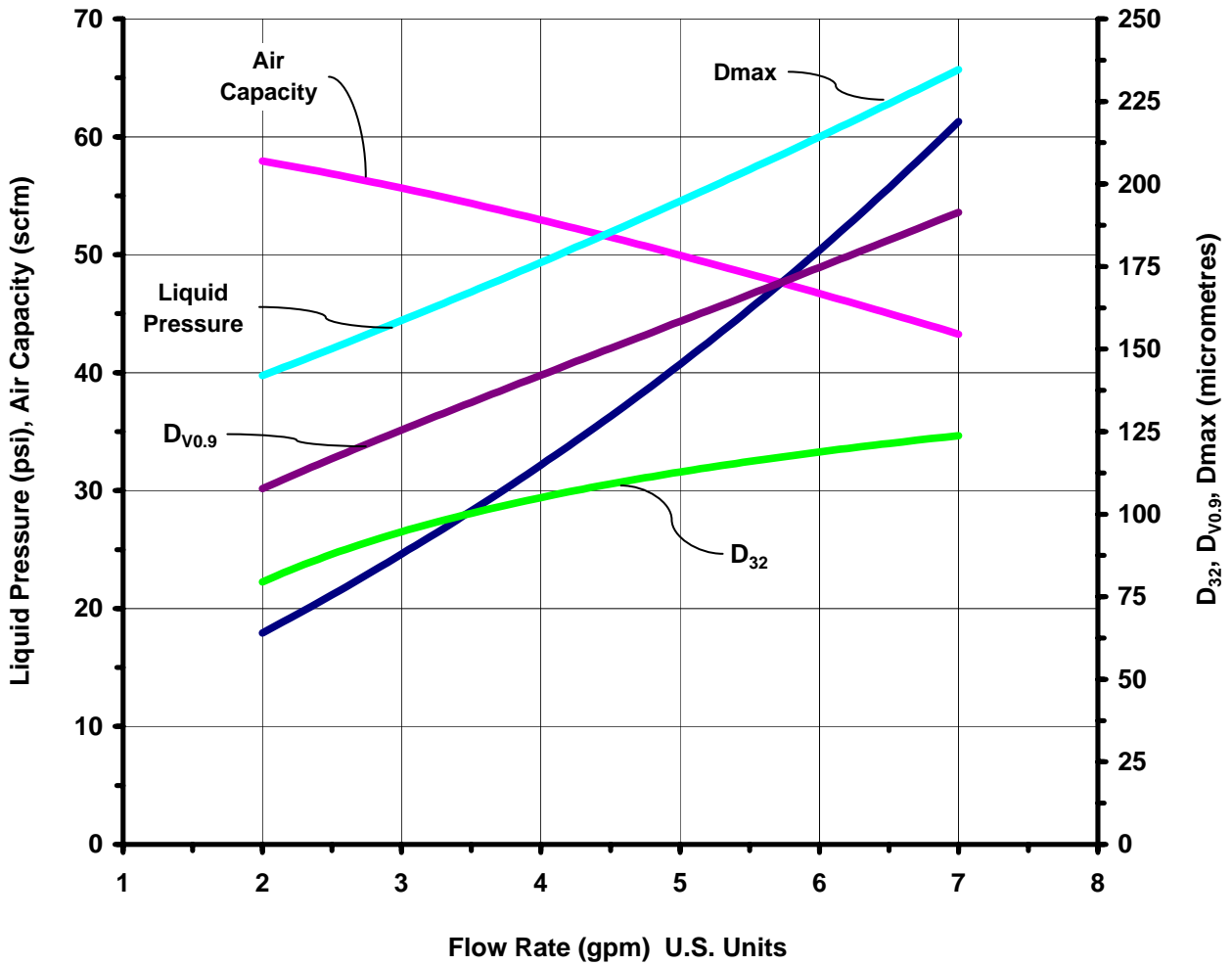


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Rev. No. 5  
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Data Sheet No.  
39801-2  
SHEET OF

**FloMax<sup>®</sup> FM5A Air Atomizing Nozzle  
@ 30 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM5A  
Air Atomizing Nozzle  
@ 30 psi Air Pressure**



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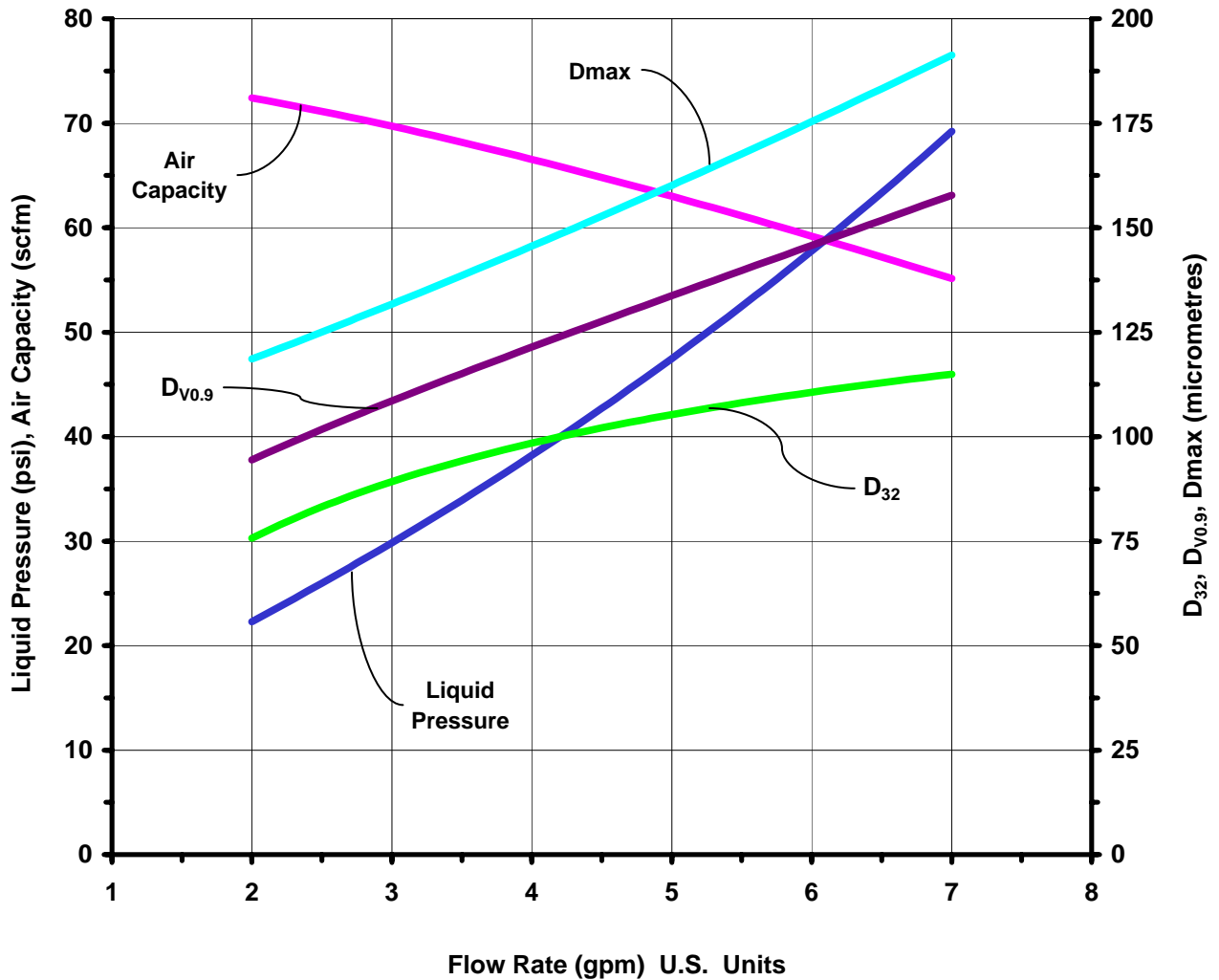
Data Sheet No.

**48677-30**

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Sheet of

**FloMax<sup>®</sup> FM5A Air Atomizing Nozzle  
@ 40 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM5A  
Air Atomizing Nozzle  
@ 40 psi Air Pressure**



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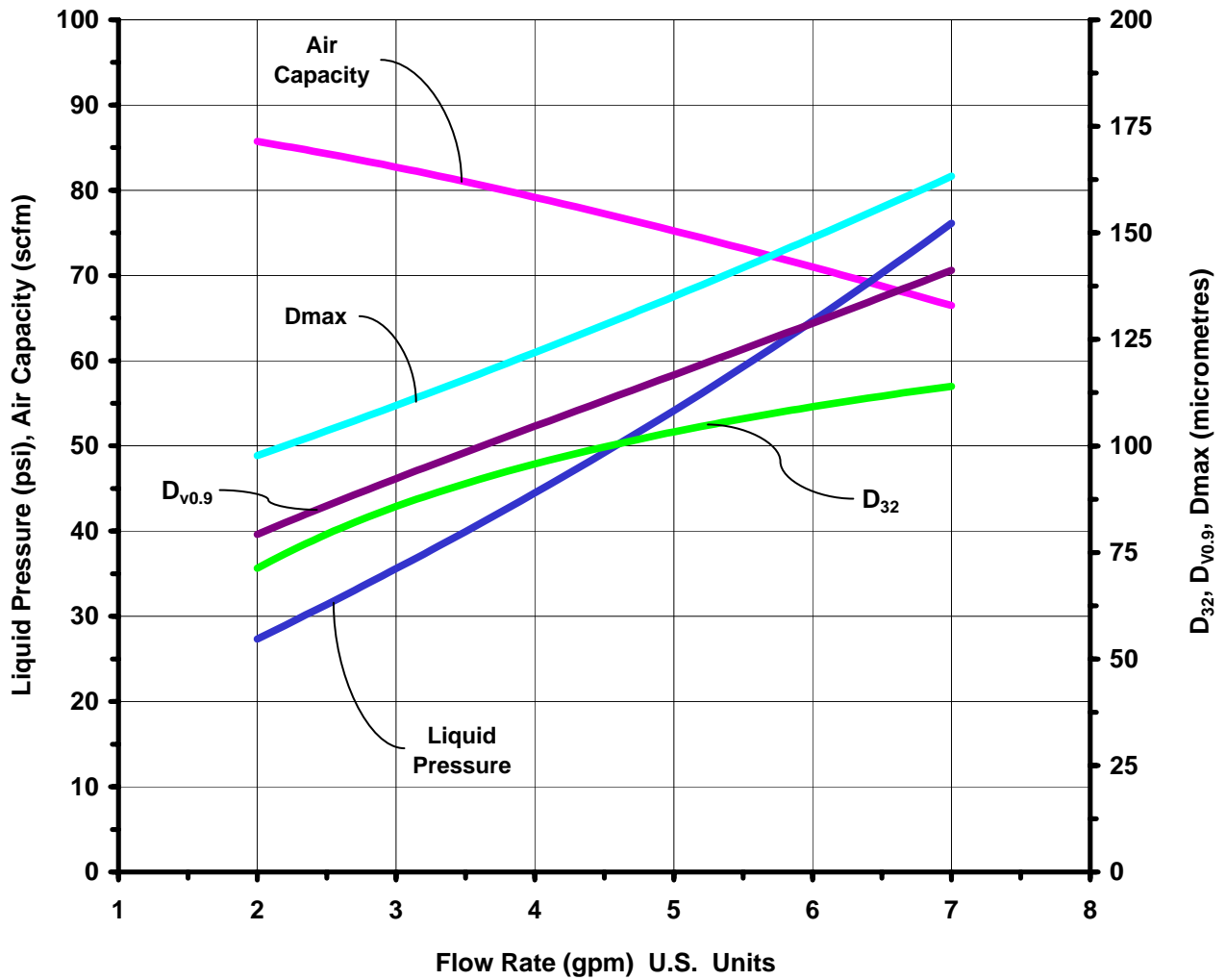
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**48677-40**

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Sheet of

**FloMax<sup>®</sup> FM5A Air Atomizing Nozzle  
@ 50 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM5A  
Air Atomizing Nozzle  
@ 50 psi Air Pressure**



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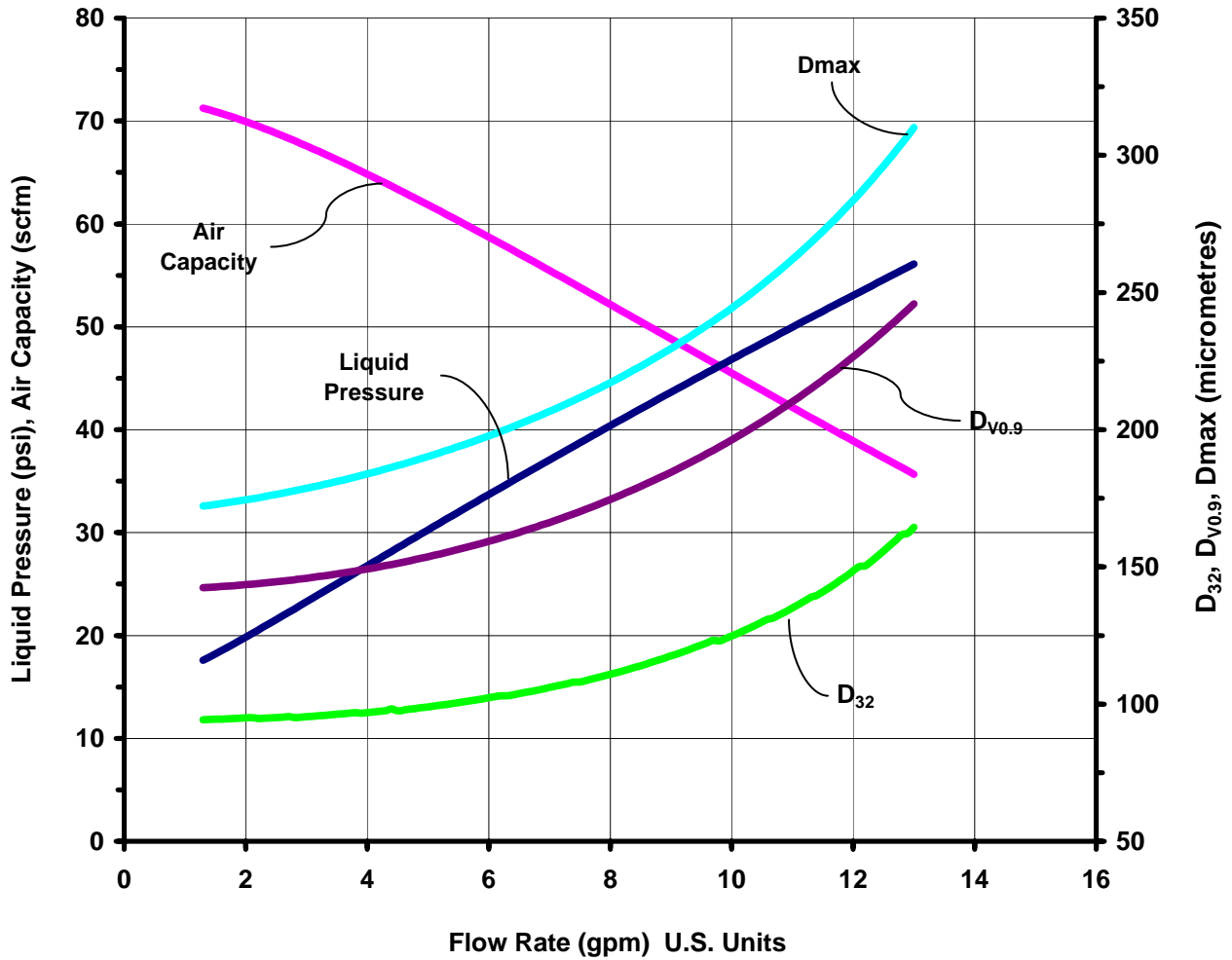
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**48677-50**

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Sheet of

**FloMax<sup>®</sup> FM10A Air Atomizing Nozzle  
@ 40 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM10A  
Air Atomizing Nozzle  
@ 40 psi Air Pressure**



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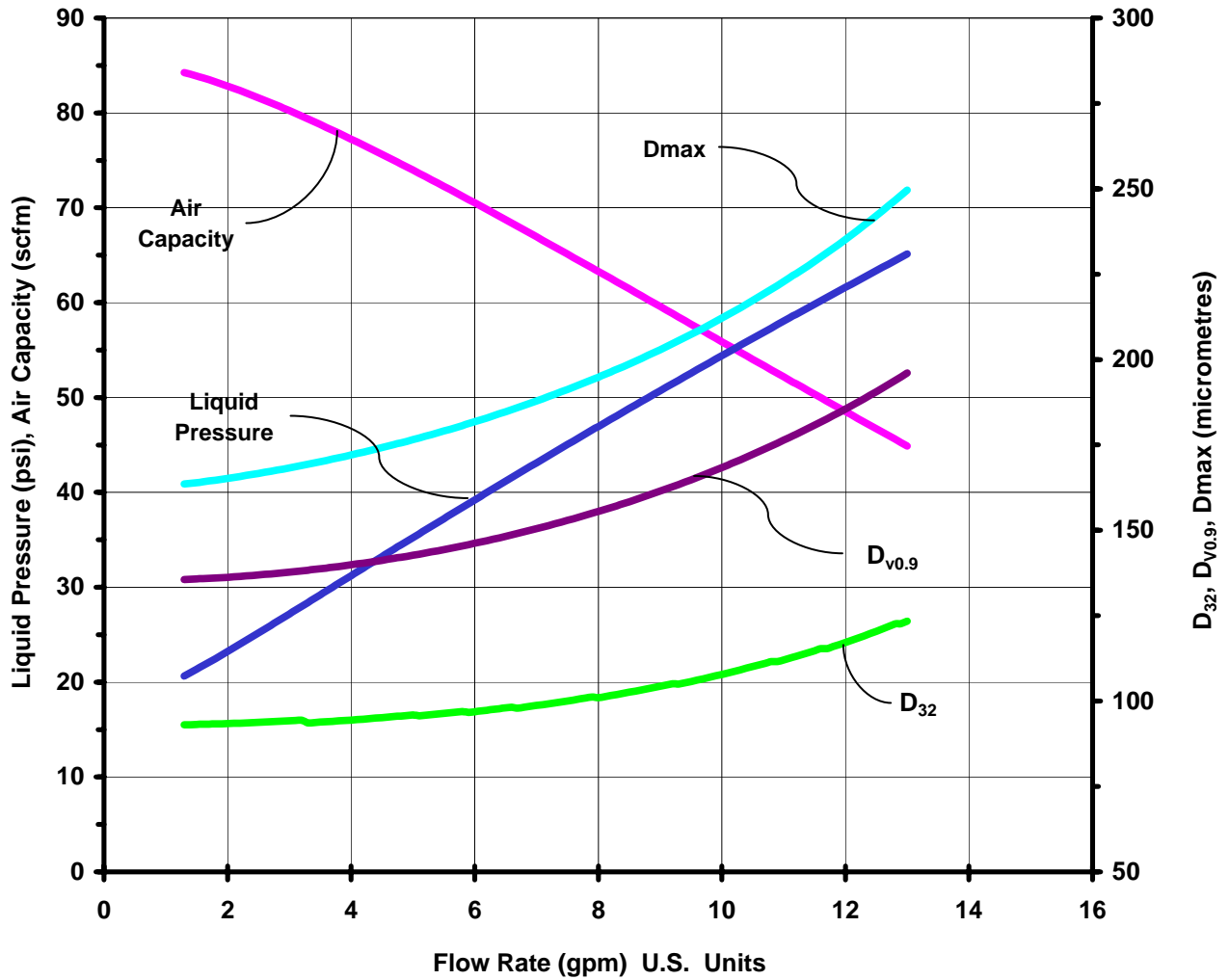
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**48676-40**

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Sheet of

**FloMax® FM10A Air Atomizing Nozzle  
@ 50 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax® FM10A  
Air Atomizing Nozzle  
@ 50 psi Air Pressure**



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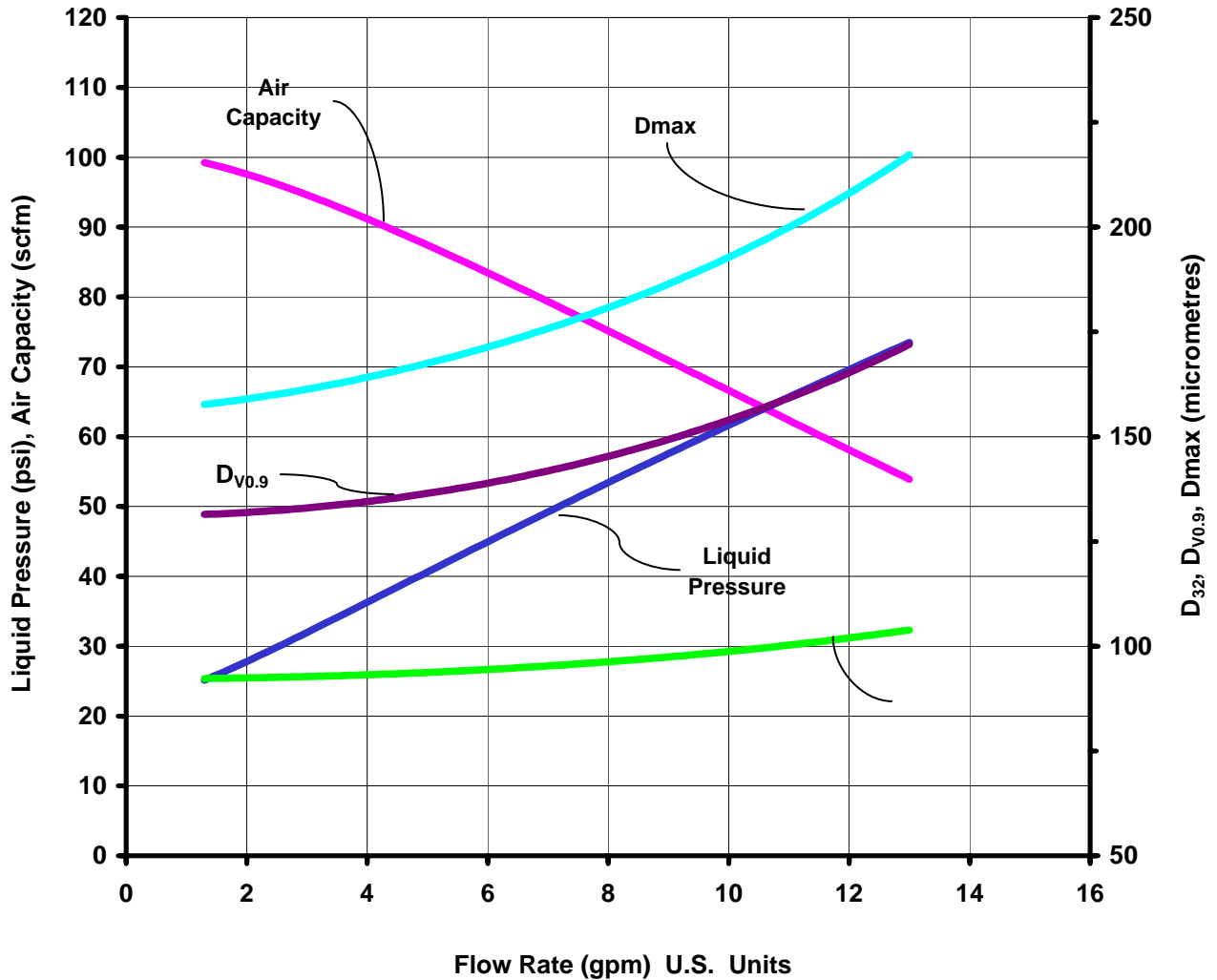
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**48676-50**

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Sheet of

**FloMax<sup>®</sup> FM10A Air Atomizing Nozzle  
@ 60 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM10A  
Air Atomizing Nozzle  
@ 60 psi Air Pressure**



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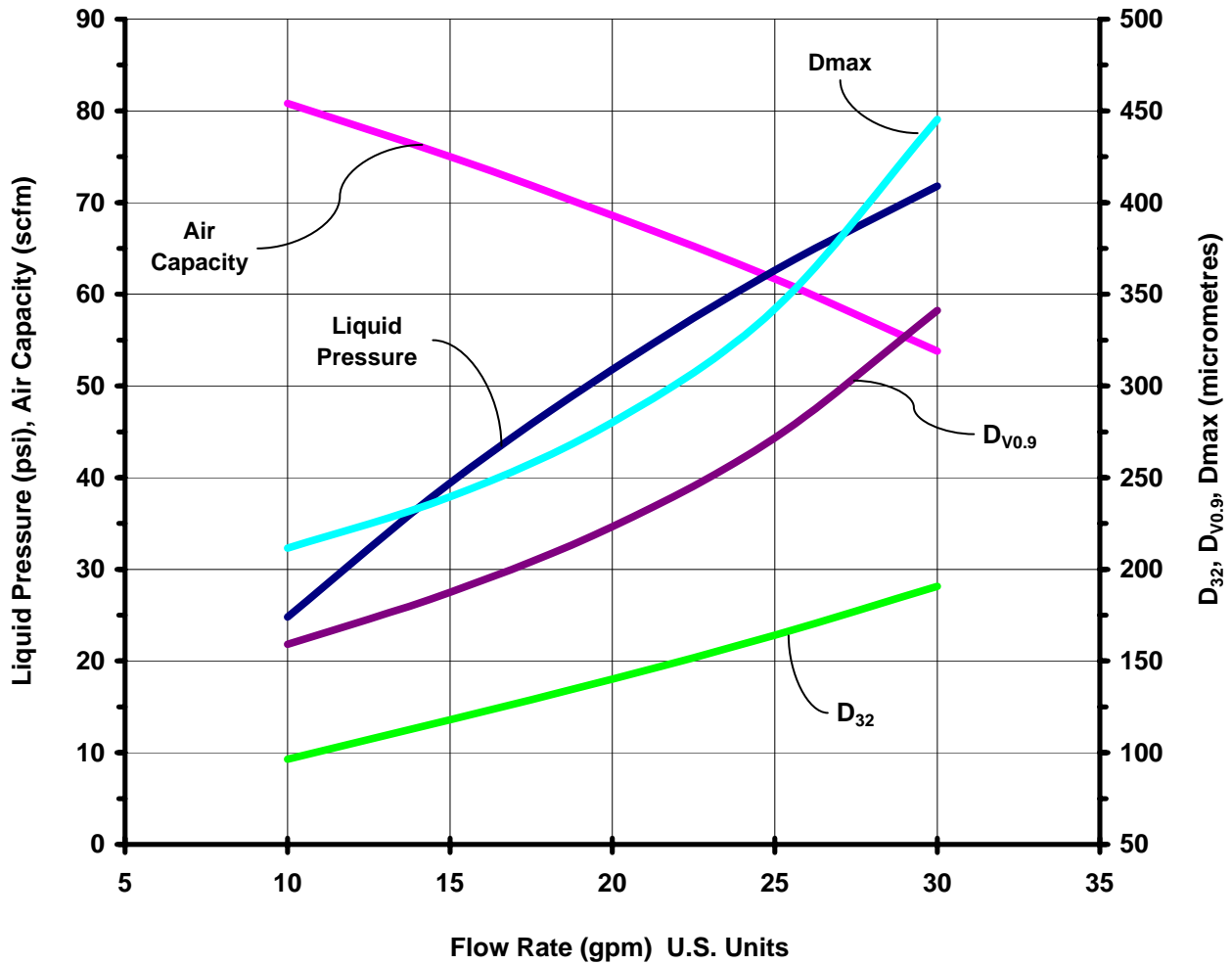
Data Sheet No.

**48676-60**

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Sheet of

**FloMax<sup>®</sup> FM25A Air Atomizing Nozzle  
@ 50 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM25A  
Air Atomizing Nozzle  
@ 50 psi Air Pressure**



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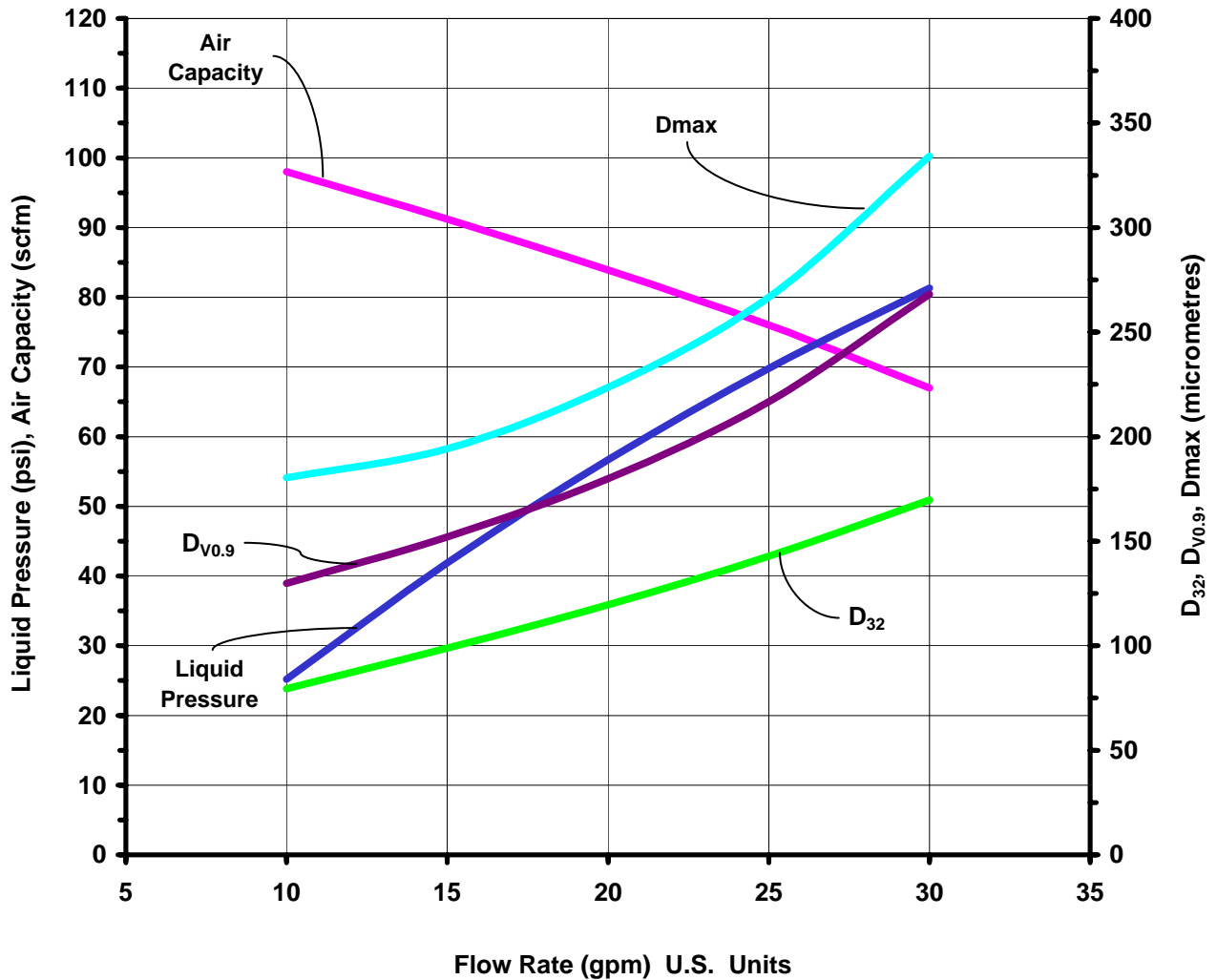
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**48675-50**

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Sheet of

**FloMax<sup>®</sup> FM25A Air Atomizing Nozzle  
@ 60 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM25A  
Air Atomizing Nozzle  
@ 60 psi Air Pressure**



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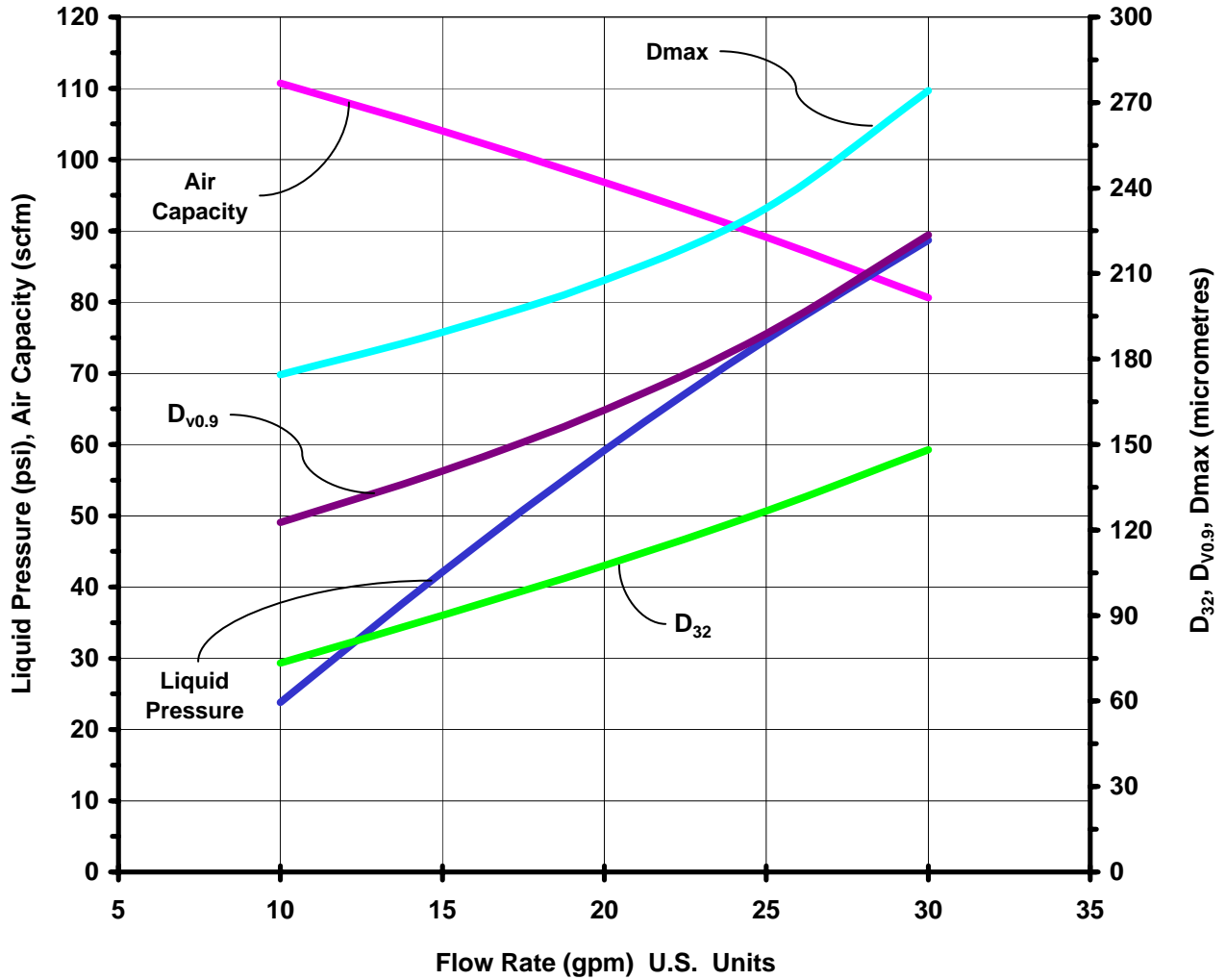
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**48675-60**

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Sheet of

**FloMax<sup>®</sup> FM25A Air Atomizing Nozzle  
@ 70 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM25A  
Air Atomizing Nozzle  
@ 70 psi Air Pressure**



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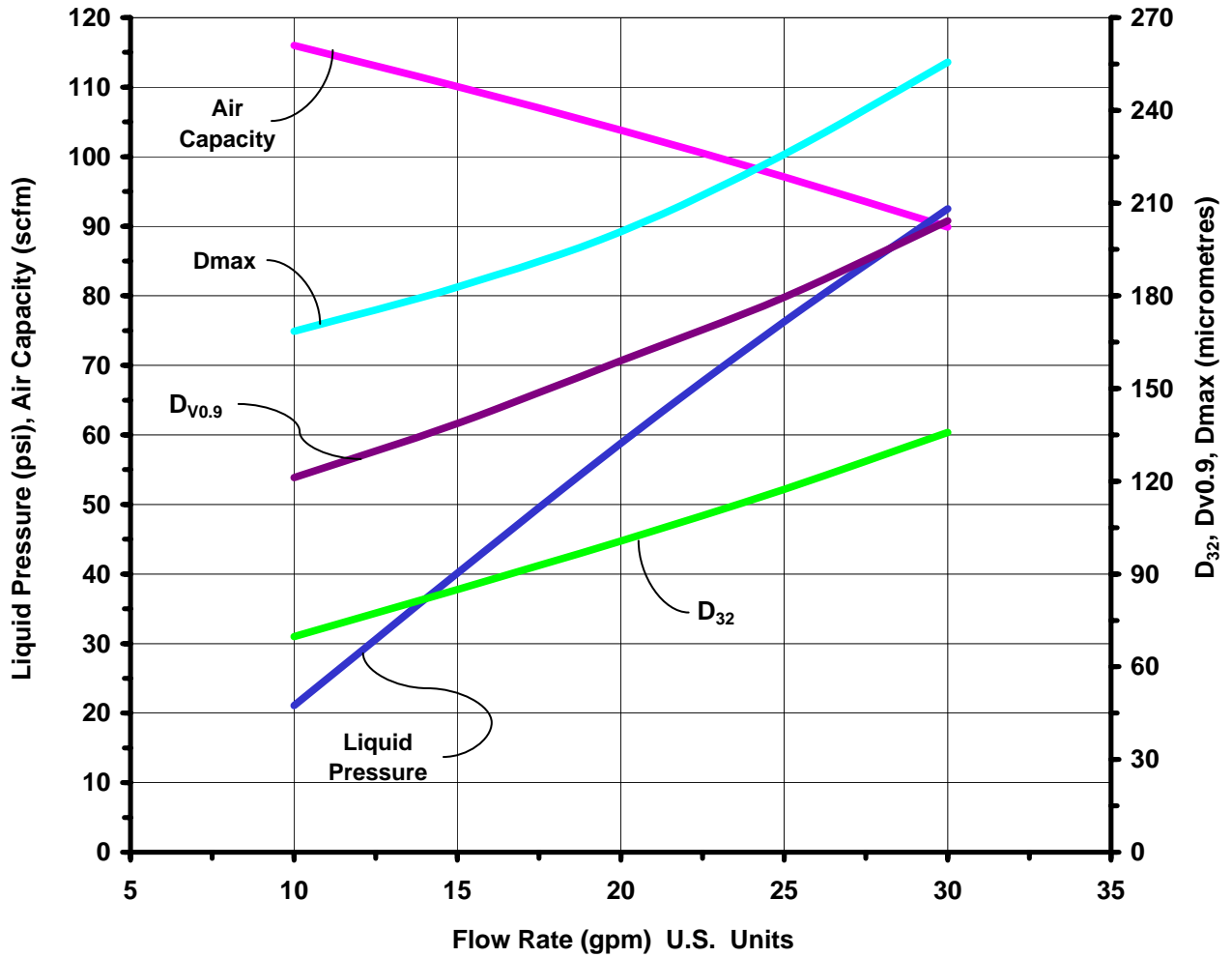
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**FloMax<sup>®</sup> FM25A Air Atomizing Nozzle  
@ 80 psi Air Pressure**



Data is based on spraying water under laboratory conditions using the Phase Doppler Particle Analyzer (PDPA). All values are to be computed utilizing the procedures for determining spray characteristics as outlined by ASTM (Standard E799).

**Description:**

**FloMax<sup>®</sup> FM25A  
Air Atomizing Nozzle  
@ 80 psi Air Pressure**



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