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Mott Porous Metal Data Sheet

Media Grade: 0.2
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch of Hg 5.0 - 6.9
 Minimum Tensile, kpsi --
 Yield Strength, kpsi --
 Young's Modulus, x 10⁶ psi --

Permeability Coefficient

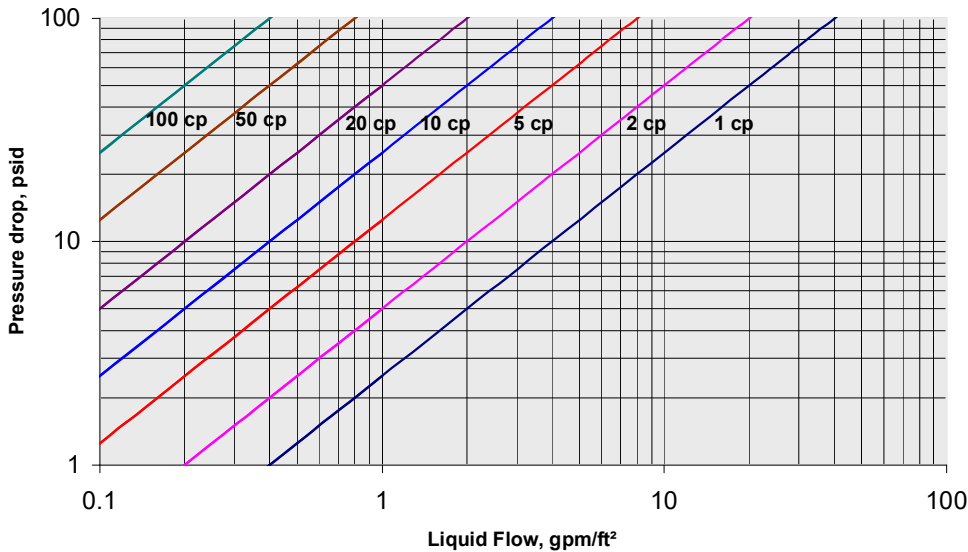
Liquid, K_L 20
 Gas, K_G 400

Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid=
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

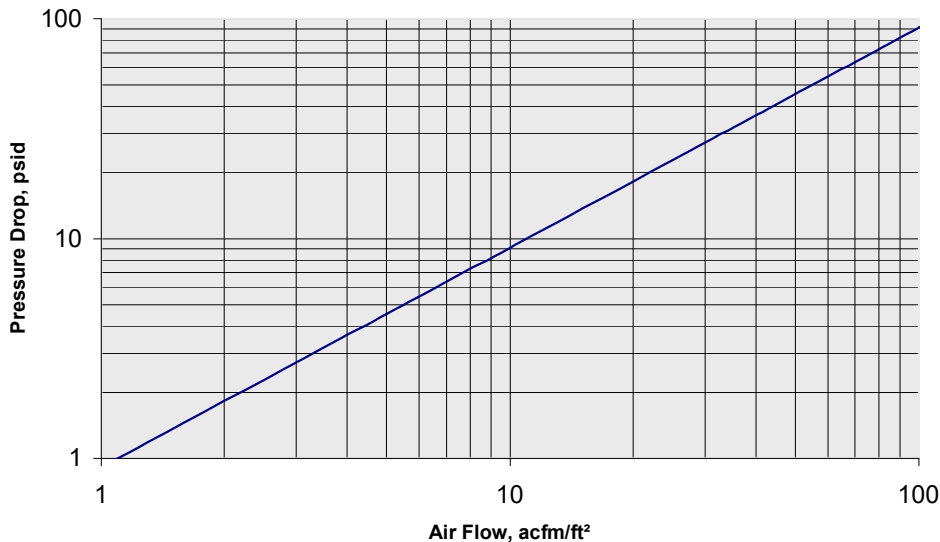
Liquid Efficiency Testing per ASTM F795
 90% at 0.35 μm Tested at 1 gpm/ft²
 99% at 0.7 μm
 99.9% at 1.1 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >99.9% for all particle sizes



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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84 Spring Lane, Farmington, CT 06032-3159
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Mott Porous Metal Data Sheet

Media Grade: 0.5
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch of Hg 3.0 - 3.9
 Minimum Tensile, kpsi 21.1
 Yield Strength, kpsi 11.5
 Young's Modulus, x 10⁶ psi 8.3

Permeability Coefficient

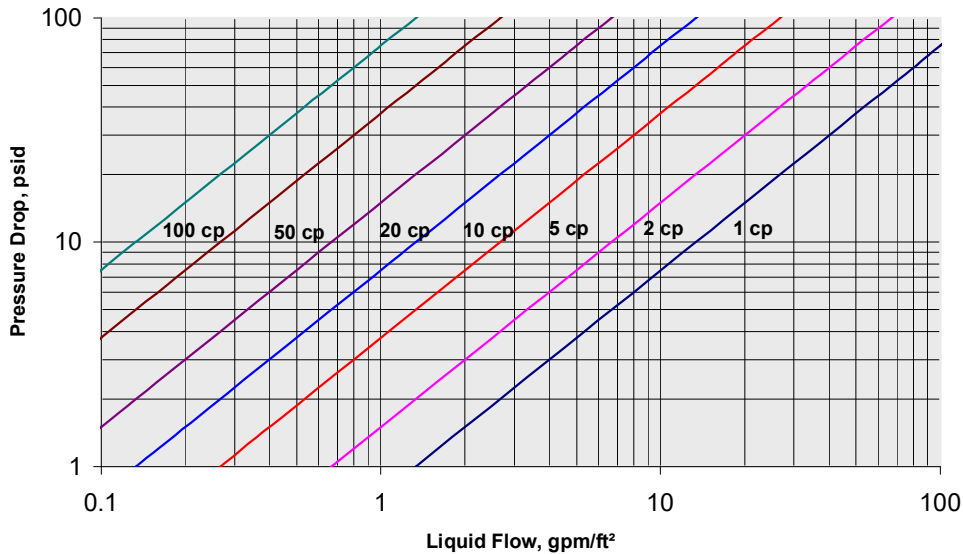
Liquid, K_L 6.0
 Gas, K_G 170

Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid=
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

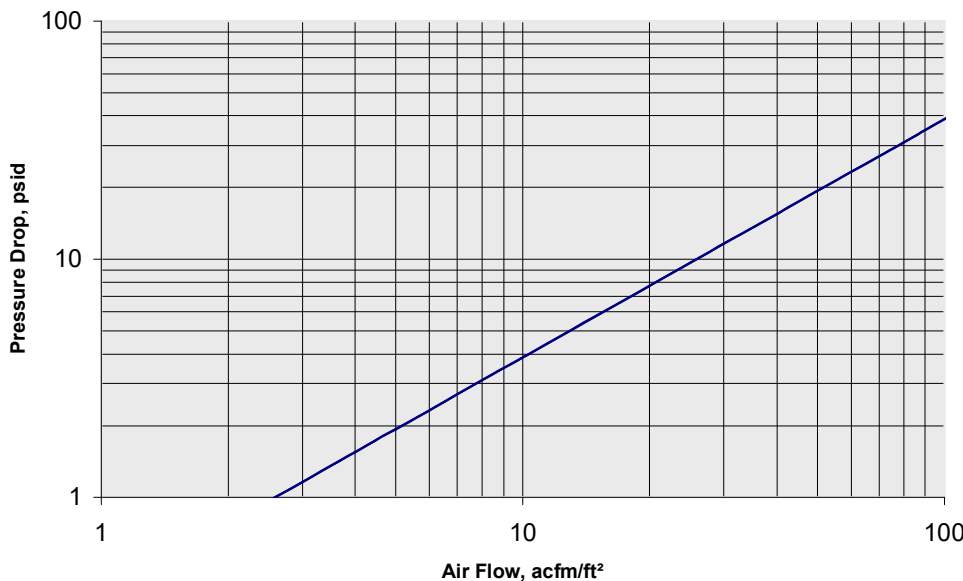
Liquid Efficiency Testing per ASTM F795
 90% at 0.8 μm Tested at 1 gpm/ft²
 99% at 1.4 μm
 99.9% at 1.8 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >99.9% for all particle sizes



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 2
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 17.0 - 24.0
 Minimum Tensile, kpsi 12.8
 Yield Strength, kpsi 7.2
 Young's Modulus, x 10⁶ psi 5.1

Permeability Coefficient

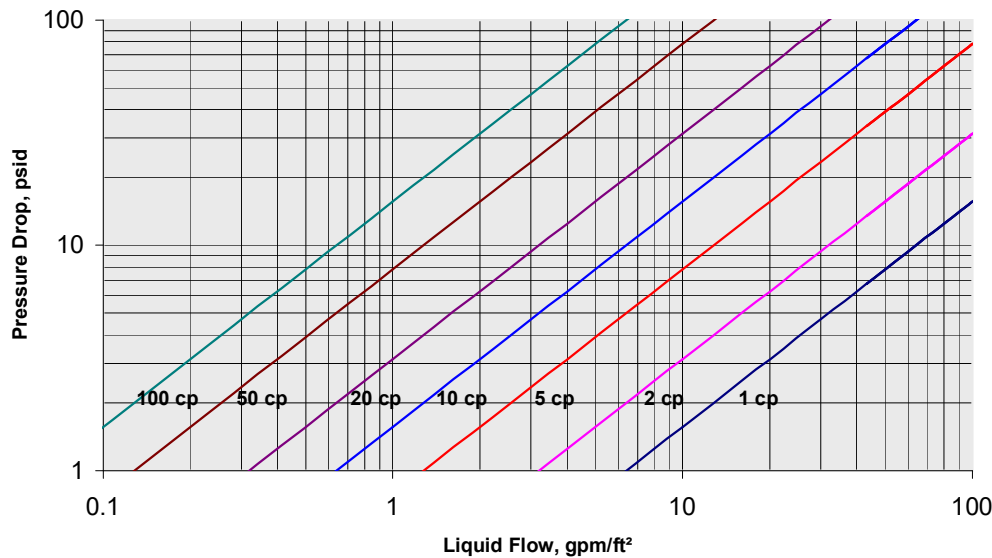
Liquid, K_L 1.25
 Gas, K_G 22

Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid =
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

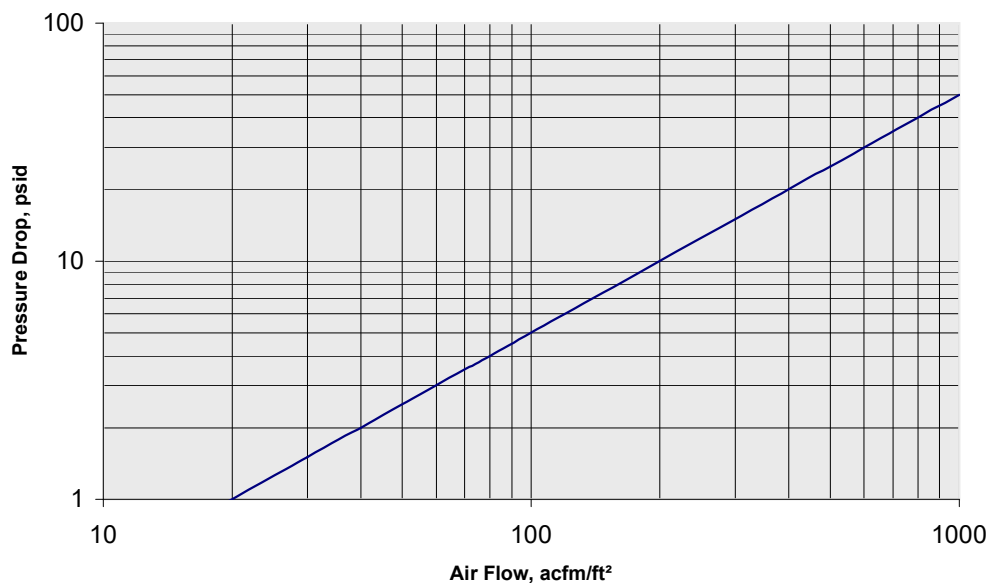
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 3.5 μm
 99% at 5 μm
 99.9% at 8 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 0.2 μm
 99% at 0.4 μm
 99.9% at 1.3 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 5
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 13.0 - 16.9
 Minimum Tensile, kpsi 9.5
 Yield Strength, kpsi 6.8
 Young's Modulus, x 10⁶ psi 3.7

Permeability Coefficient

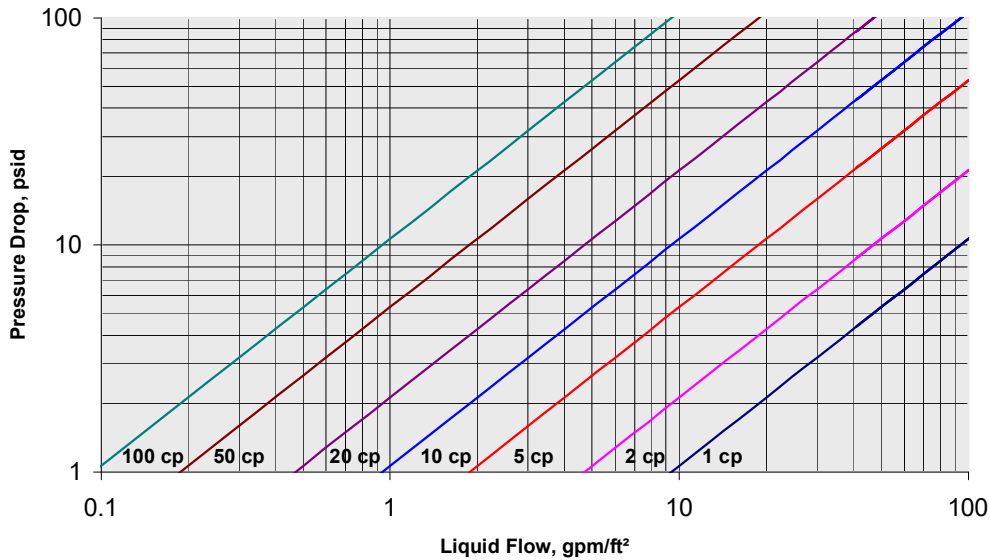
Liquid, K_L 0.85
 Gas, K_G 10

Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid =
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

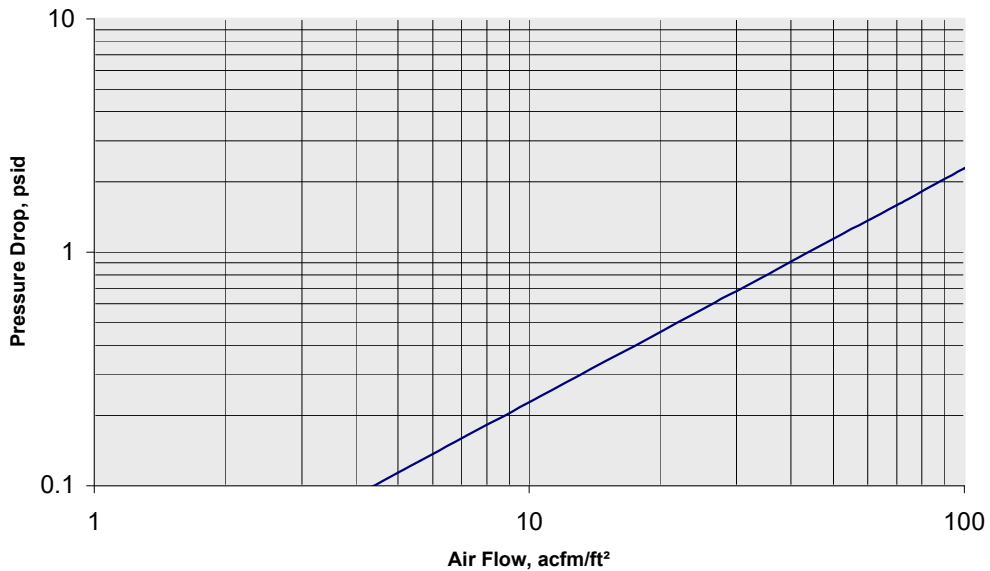
Liquid Efficiency Testing per ASTM F795
 90% at 4.5 μm Tested at 1 gpm/ft²
 99% at 7 μm
 99.9% at 11 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 0.5 μm
 99% at 1.3 μm
 99.9% at 3.5 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 10
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 7.5 - 10.9
 Minimum Tensile, kpsi 5.0
 Yield Strength, kpsi 3.7
 Young's Modulus, x 10⁶ psi 2.9

Permeability Coefficient

Liquid, K_L 0.45
 Gas, K_G 7.0

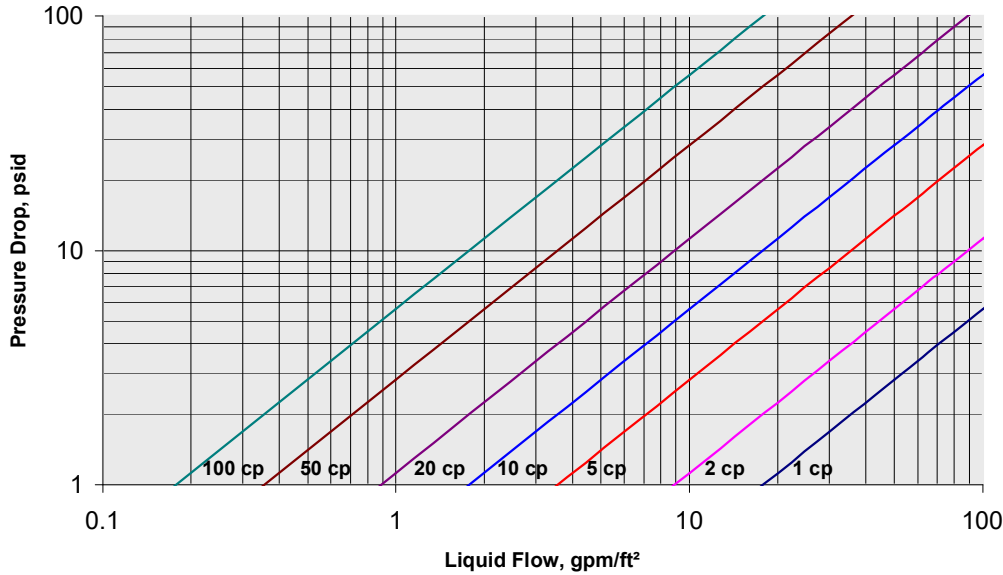
Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Gas: Pressure Drop, psid =
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

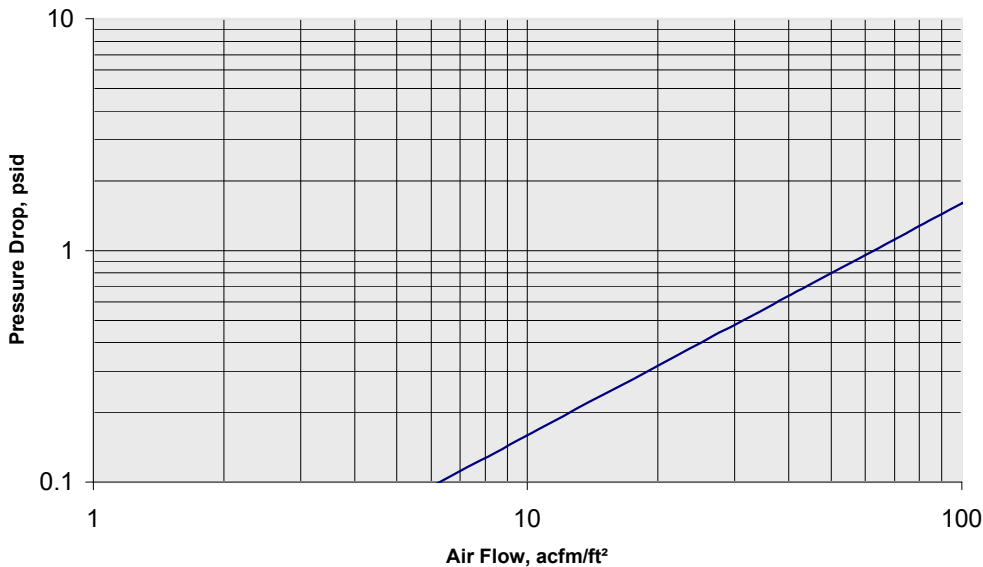
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 9 μm
 99% at 14 μm
 99.9% at 18 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 3.5 μm
 99% at 6 μm
 99.9% at 10 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 20
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 5.0 - 7.0
 Minimum Tensile, kpsi 4.5
 Yield Strength, kpsi 2.9
 Young's Modulus, x 10⁶ psi 2.3

Permeability Coefficient

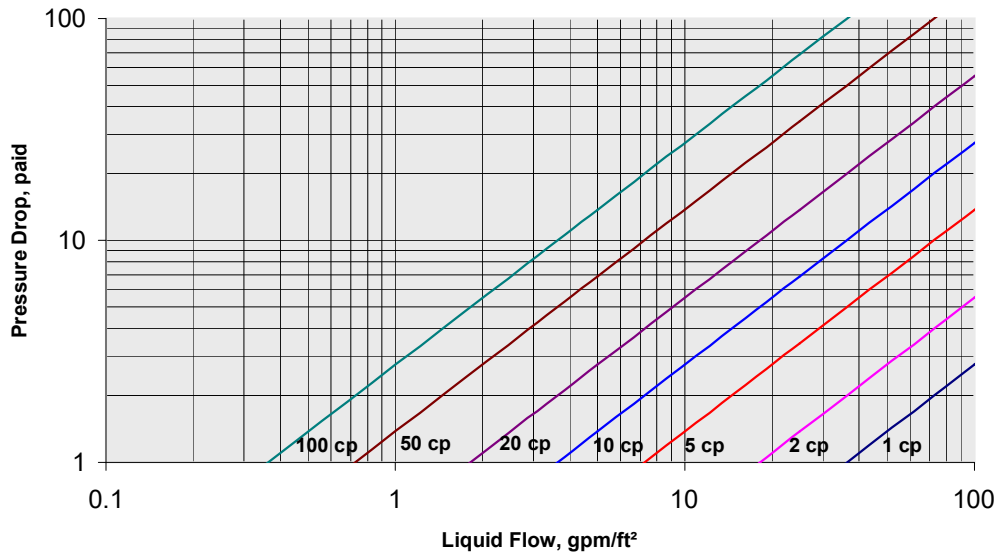
Liquid, K_L 0.22
 Gas, K_G 3.8

Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$
Gas: Pressure Drop, psid =
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

Particle Removal Efficiency

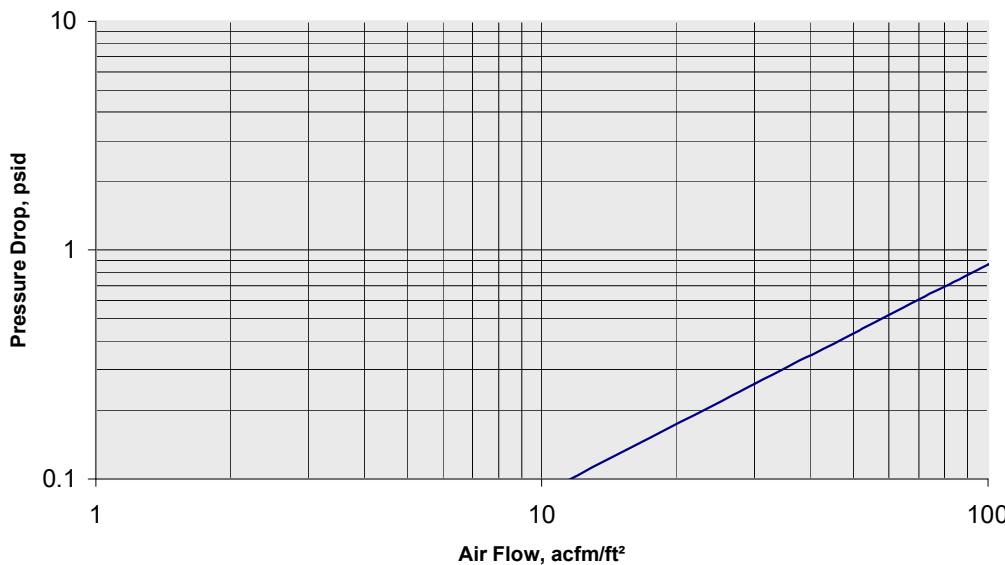
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 18 μm
 99% at 22 μm
 99.9% at 30 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 5 μm
 99% at 9 μm
 99.9% at 15 μm



Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 40
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 3.0 - 4.0
 Minimum Tensile, kpsi 3.1
 Yield Strength, kpsi 2.2
 Young's Modulus, x 10⁶ psi 1.8

Permeability Coefficient

Liquid, K_L 0.15
 Gas, K_G 1.8

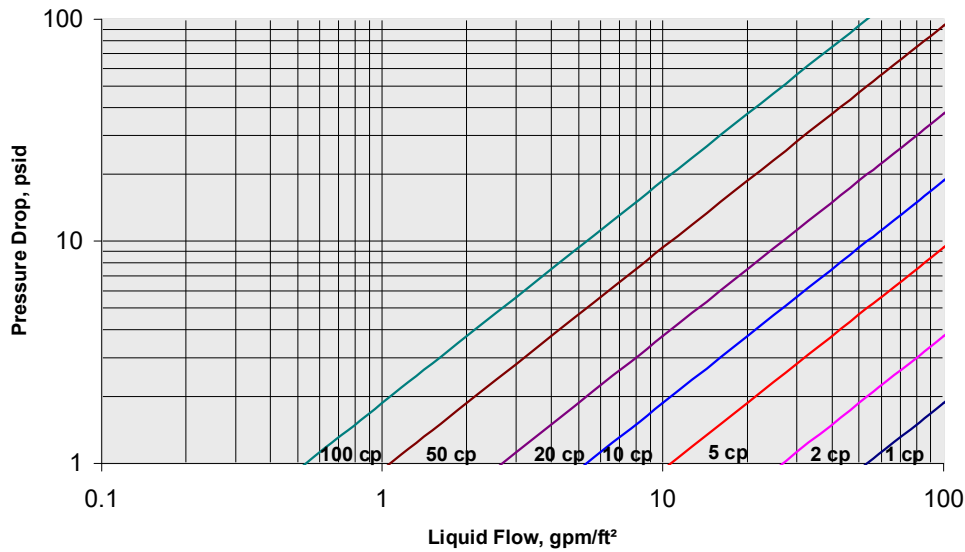
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)

Gas: Pressure Drop, psid =
 (K_G)(Flux, acfm/ft²)(Visc, cp)(Thck, inch)

Particle Removal Efficiency

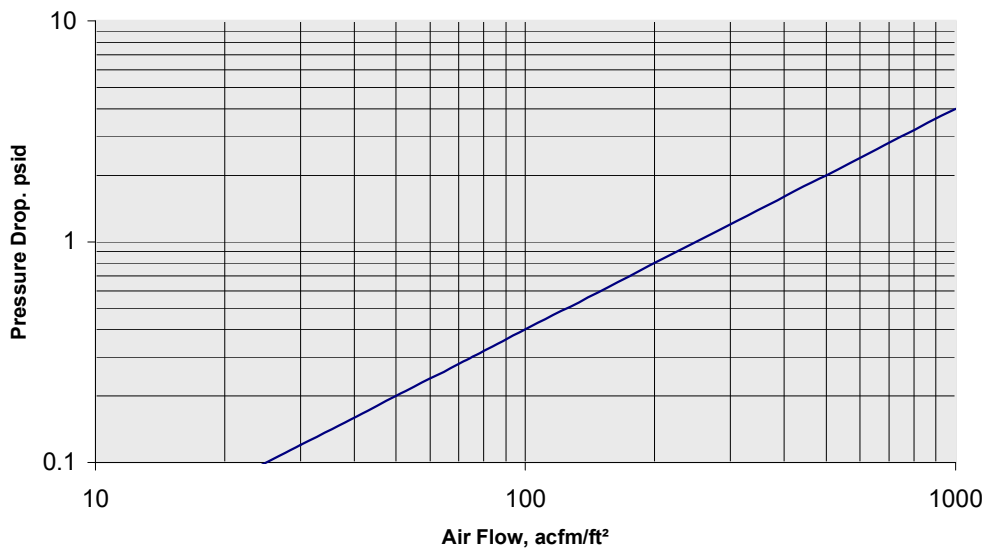
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 22 μm
 99% at 32 μm
 99.9% at 40 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 10 μm
 99% at 20 μm
 99.9% at 40 μm



Notes:

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- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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Mott Porous Metal Data Sheet

Media Grade: 100
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.125 inches

Issued: 06/25/10

Manufacturing Specifications

Bubble Point, inch water 0.5 - 1.5
 Minimum Tensile, kpsi 1.1
 Yield Strength, kpsi 0.9
 Young's Modulus, x 10⁶ psi 1.3

Permeability Coefficient

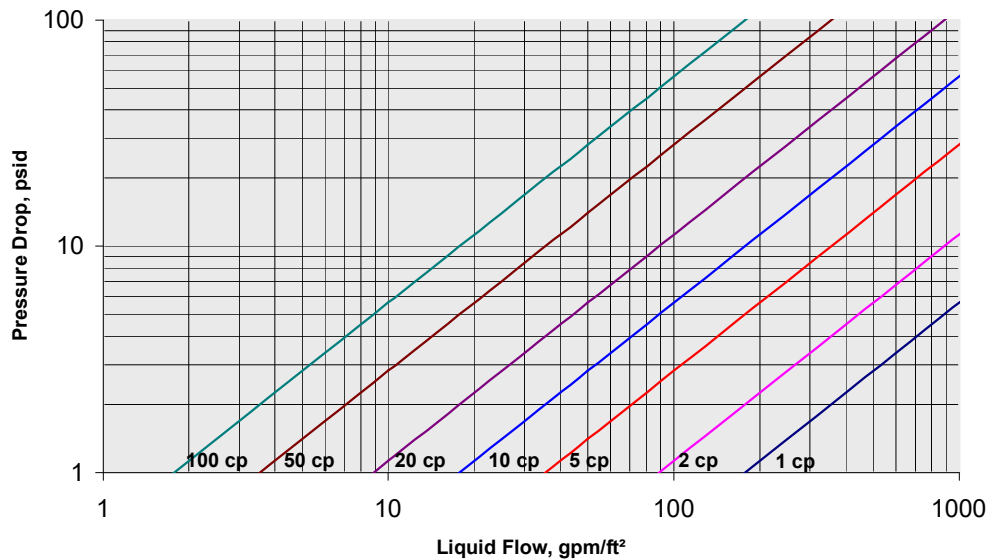
Liquid, K_L 0.045
 Gas, K_G 0.50

Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)
Gas: Pressure Drop, psid =
 (K_G)(Flux, acfm/ft²)(Visc, cp)(Thck, inch)

Particle Removal Efficiency

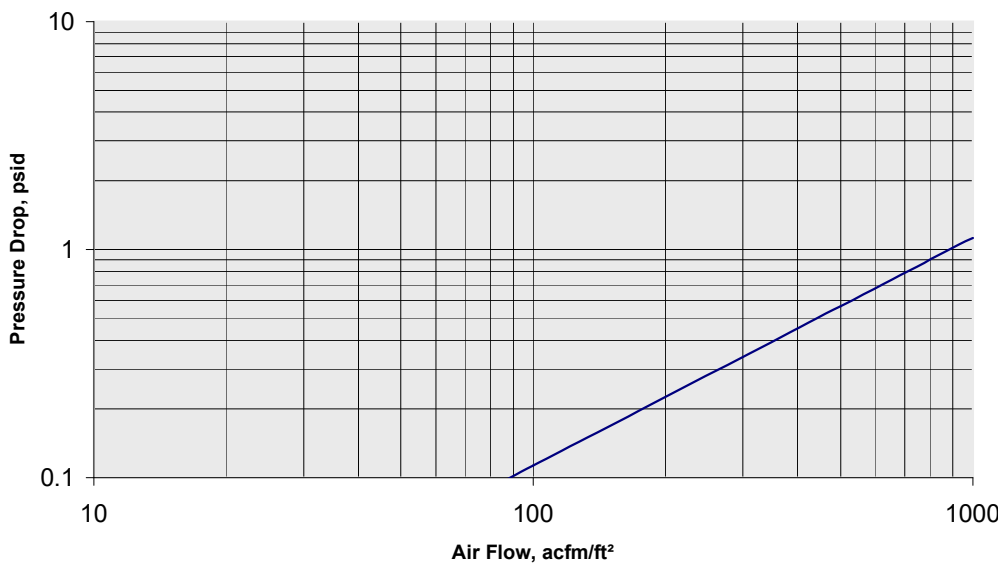
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 45 μm
 99% at 95 μm
 99.9% at 140 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 90% at 18 μm
 99% at 35 μm
 99.9% at 90 μm



Notes:

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- 2 - Tests run with water, other curves generated using Liquid Formula



Notes:

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