

Pressed Cup Grade 0.5 Material and Permeability Data	2
Pressed Cup Grade 2 Material and Permeability Data	3
Pressed Cup Grade 5 Material and Permeability Data	4
Pressed Cup Grade 10 Material and Permeability Data	5
Pressed Cup Grade 20 Material and Permeability Data	6
Pressed Cup Grade 40 Material and Permeability Data	7
Pressed Cup Grade 100 Material and Permeability Data	8

Mott Porous Metal Data Sheet

Media Grade: 0.5
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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 14.5
Gas, K_G 160

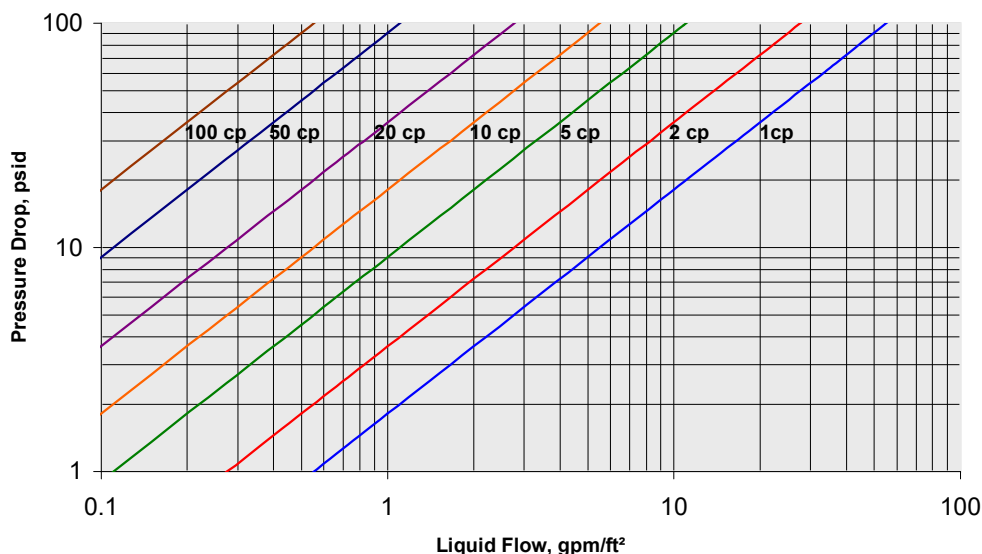
Liquid: Pressure Drop, psid =
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

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

Particle Removal Efficiency

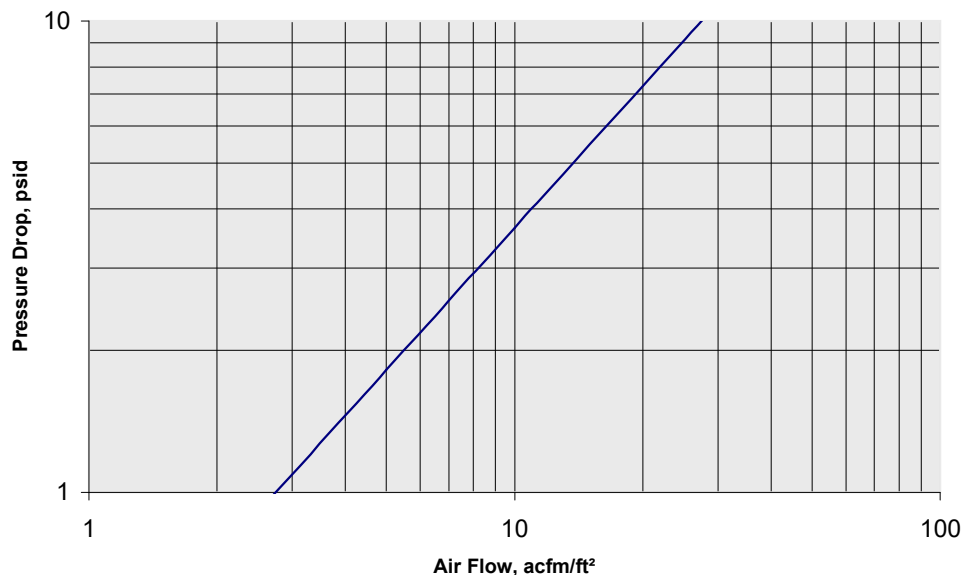
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 0.8 μm
 99% at 1.4 μm
 99.9% at 1.8 μm

Air Efficiency Tested at flux of 6 acfm/ft²
 >90% for all particle sizes
 >99% for all particle sizes
 >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 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 2
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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

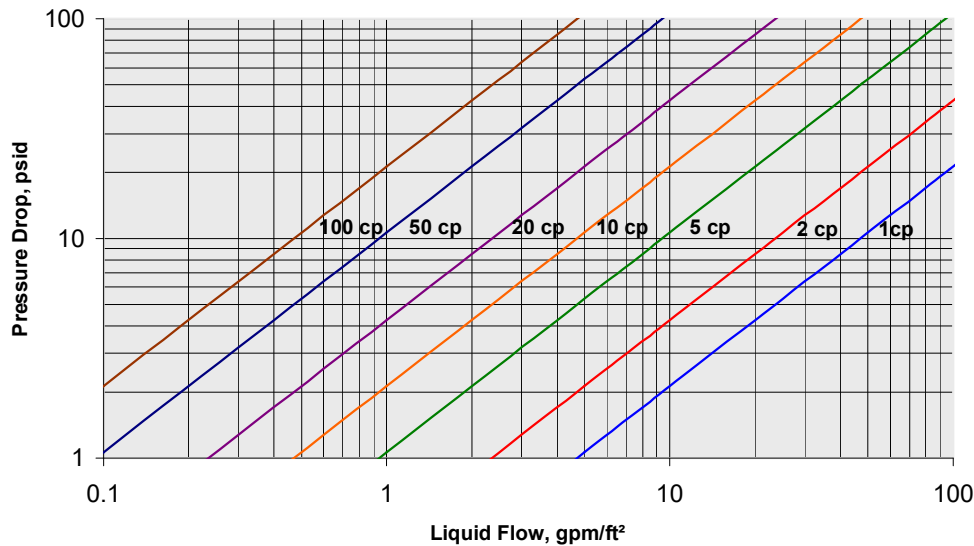
Liquid, K_L 1.7
Gas, K_G 21

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

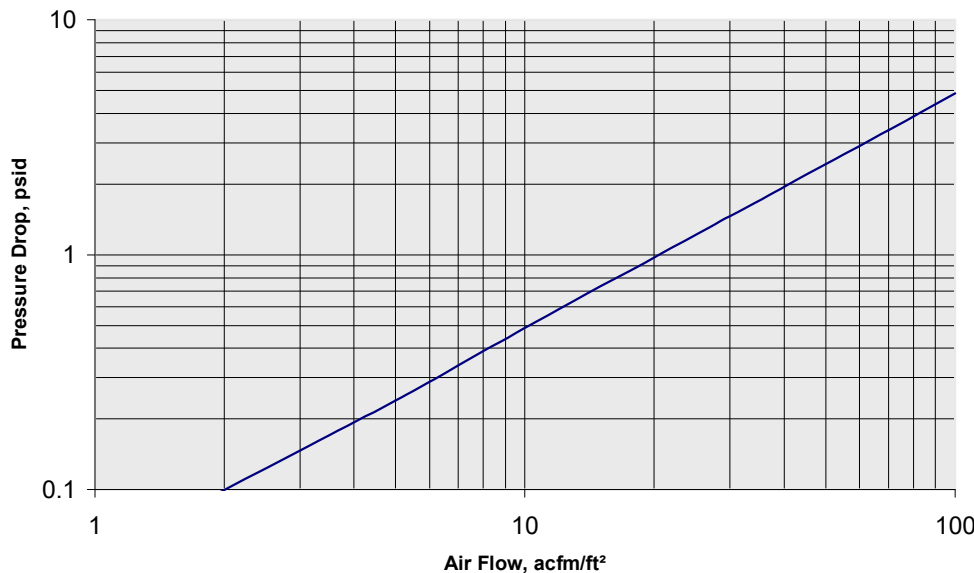
Liquid Efficiency Testing per ASTM F795
 90% at 3.5 μm Tested at 1 gpm/ft²
 99% at 5 μm
 99.9% at 8 μm

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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 5
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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

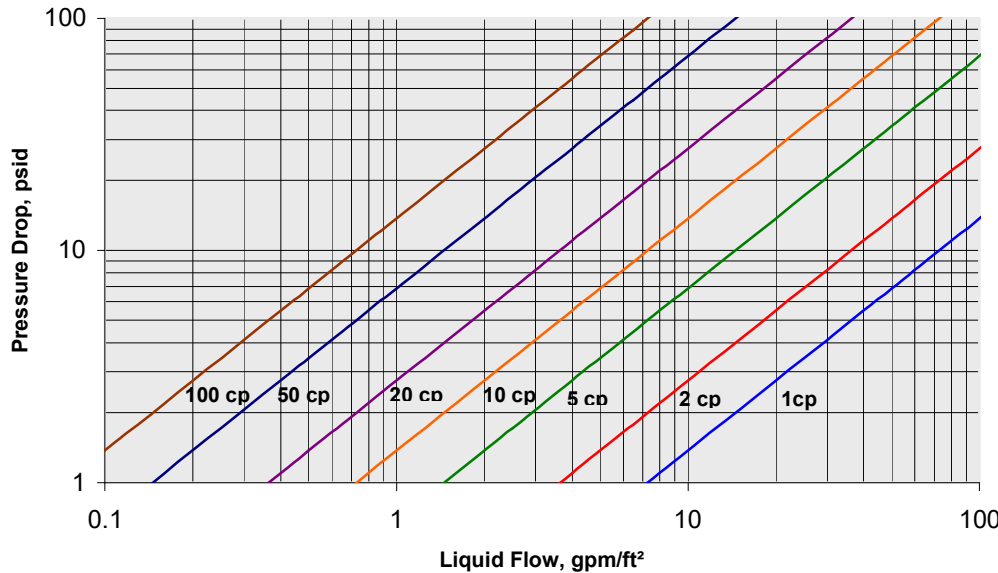
Liquid, K_L 1.1
 Gas, K_G 12.5

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

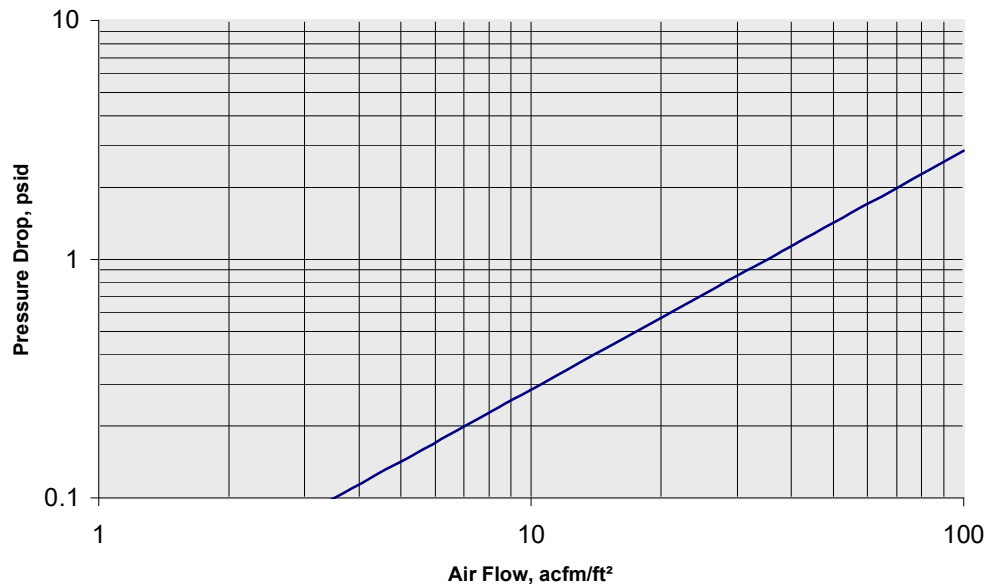
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 4.5 μm
 99% at 7 μm
 99.9% at 11 μm

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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 10
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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

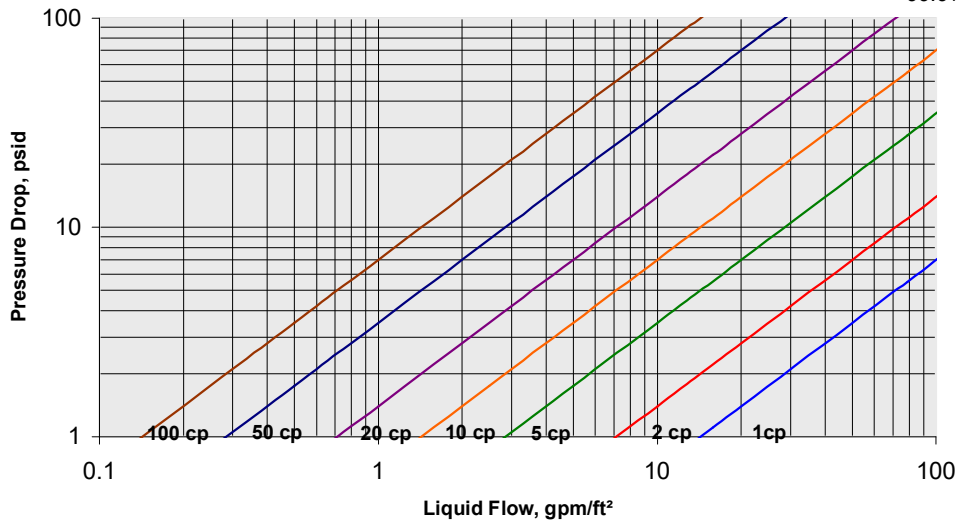
Liquid, K_L 0.56
 Gas, K_G 7.0

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

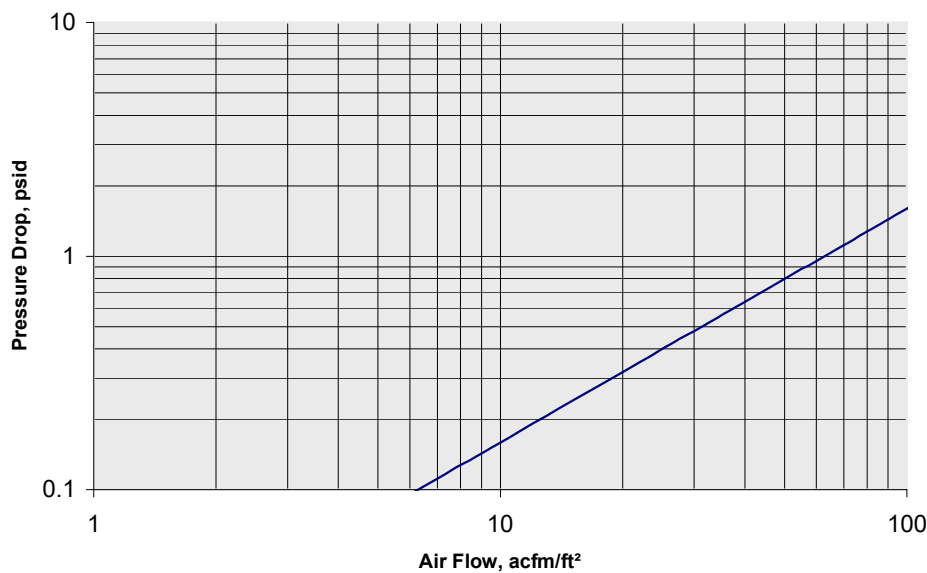
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 9 μm
 99% at 14 μm
 99.9% at 18 μm

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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 20
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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

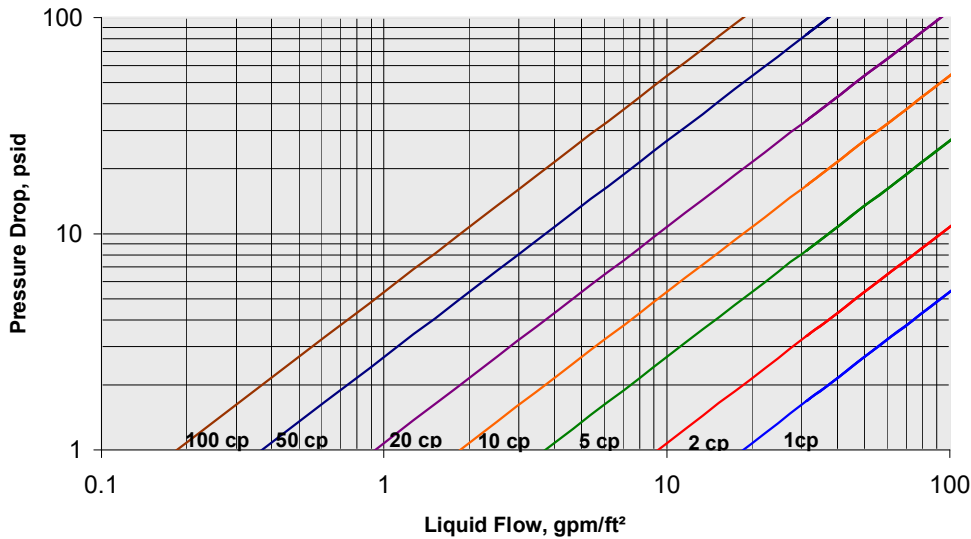
Liquid, K_L 0.43
 Gas, K_G 3.3

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

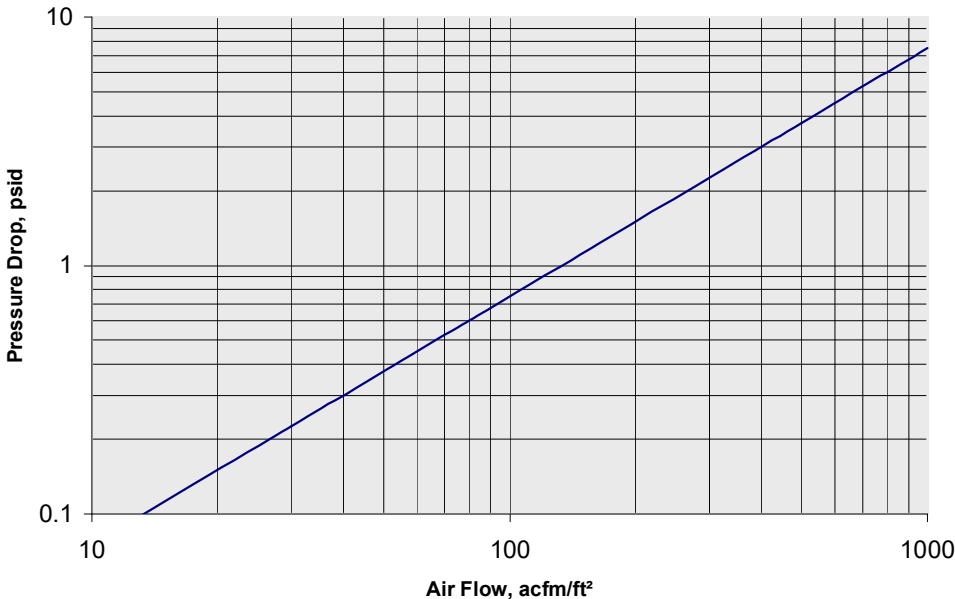
Liquid Efficiency Testing per ASTM F795
 Tested at 1 gpm/ft²
 90% at 18 μm
 99% at 22 μm
 99.9% at 30 μm

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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 40
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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

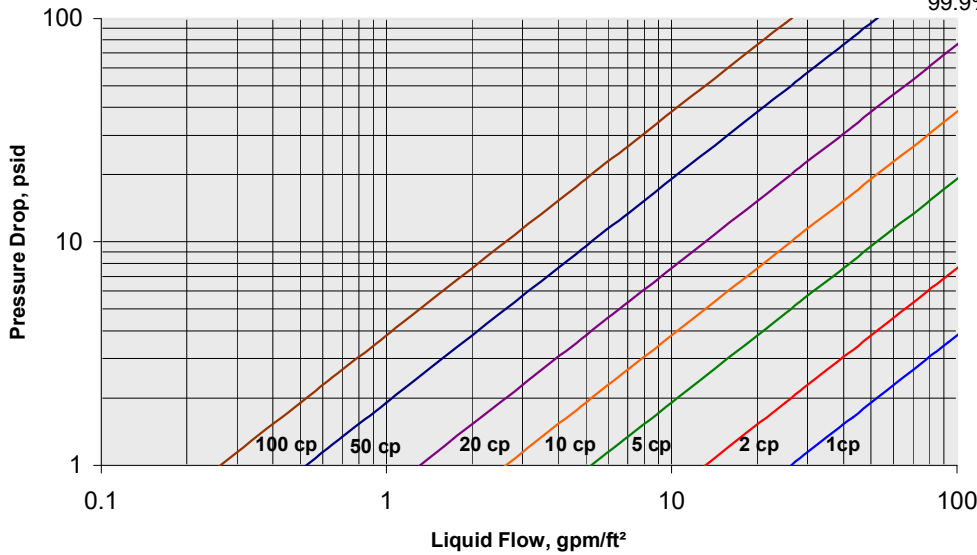
Liquid, K_L 0.30
 Gas, K_G 1.7

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)

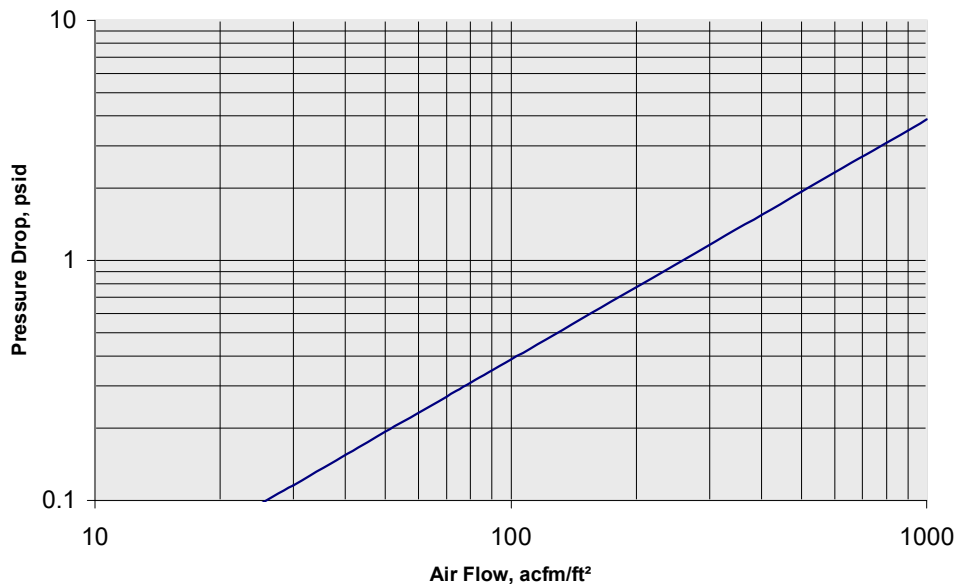
Particle Removal Efficiency

Liquid Efficiency Tested per ASTM F795
 90% at 22 μm Tested at 1 gpm/ft²
 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:
 1 - Tests run at 70 °F
 2 - Tests run with water, other curves generated using Liquid Formula



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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade: 100
Type: Pressed Cups
Alloy: 316LSS
Outer Diameter: 0.5 inches
Inner Diameter: 0.250 inches
Length: 1.0 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 0.15
 Gas, K_G 0.70

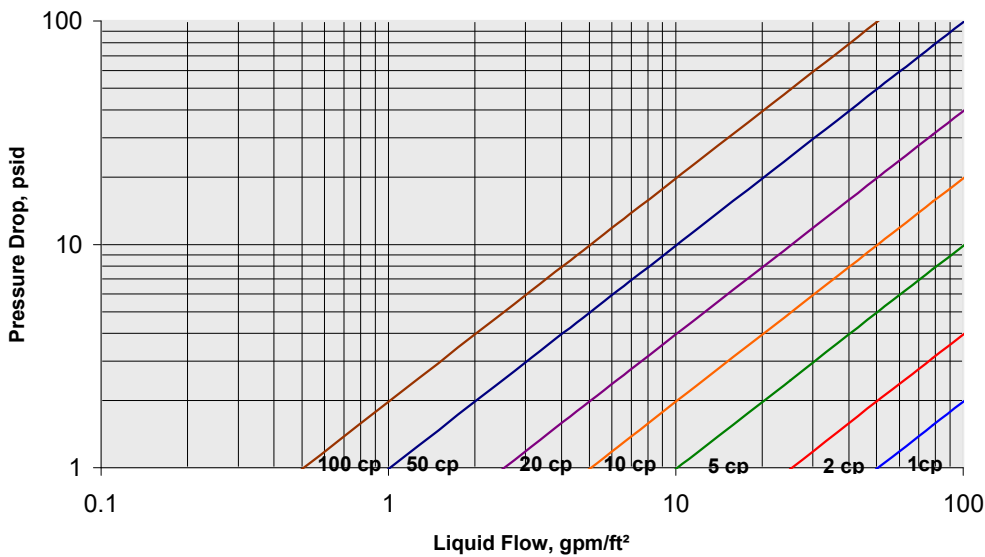
Liquid: Pressure Drop, psid =
 (K_L)(Flux, gpm/ft²)(Visc, cp)(Thck, inch)

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

Particle Removal Efficiency

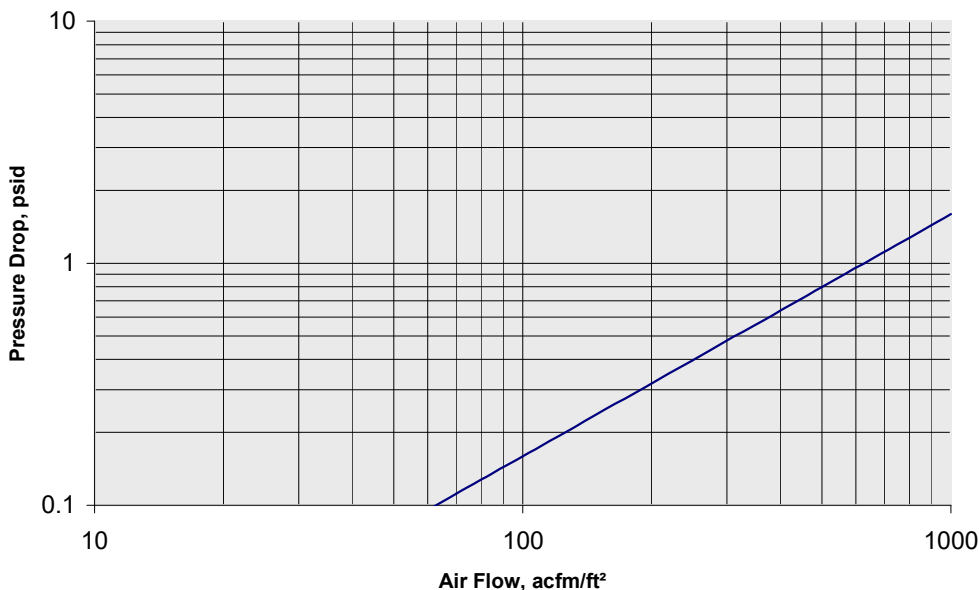
Liquid Efficiency Tested per ASTM F795
 90% at 45 μm Tested at 1 gpm/ft²
 99% at 90 μm
 99.9% at 140 μm

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



Notes:

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



Notes:

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

mott corporation

84 Spring Lane, Farmington, CT 06032-3159
 860-747-6333 Fax 860-747-6739
 www.mottcorp.com

The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.