Table of Contents

Pressed Discs 062 Grade 0.2 Permeability	2
Pressed Discs 062 Grade 0.5 Permeability	3
Pressed Discs 062 Grade 2 Permeability	4
Pressed Discs 062 Grade 5 Permeability	5
Pressed Discs 062 Grade 10 Permeability	6
Pressed Discs 062 Grade 20 Permeability	7
Pressed Discs 062 Grade 40 Permeability	8
Pressed Discs 062 Grade 100 Permeability	9

Mott Porous Metal Data Sheet

Media Grade:	**0.2**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.062 inches**		

Manufacturing Specifications

Bubble Point, inch of Hg	5.0 - 6.9
Minimum Tensile, kpsi	--
Yield Strength, kpsi	--
Young's Modulus, x 10^6 psi	--

Permeability Coefficient

Liquid, K_L	26
Gas, K_G	600

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

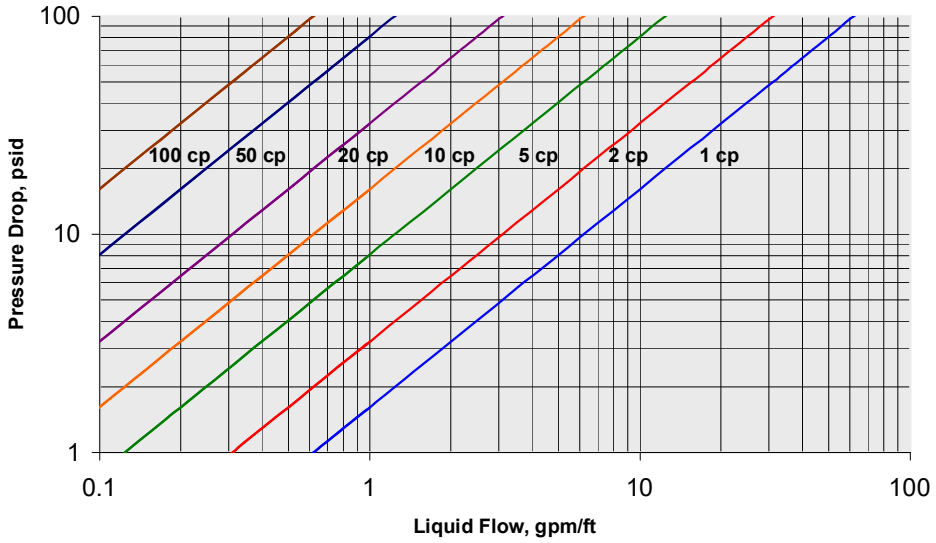
90% at 0.4 µm — Tested at 1 gpm/ft²

99% at 0.8 µm

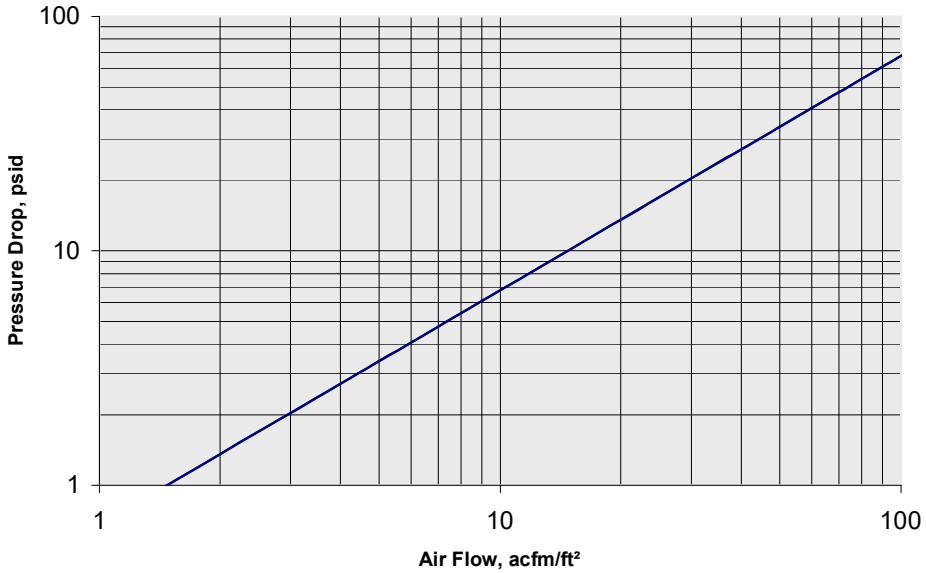
99.9% at 1.2 µm

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: 0.5
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.062 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 10^6 psi	8.3

Permeability Coefficient

Liquid, K_L	8.0
Gas, K_G	190

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

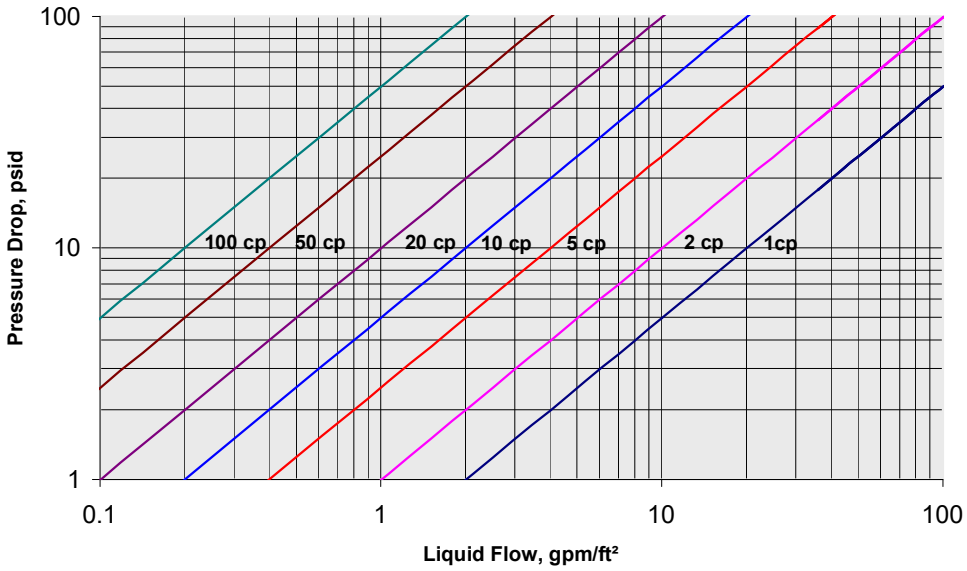
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft²

90% at 0.9 µm
99% at 1.6 µm
99.9% at 2 µm

Air Efficiency — Tested at flux of 6 acfm/ft²

>90% for all particle sizes
>99% for all particle sizes
99.9% at 0.25 µm



Notes:
1 - Tests run at 70 °F
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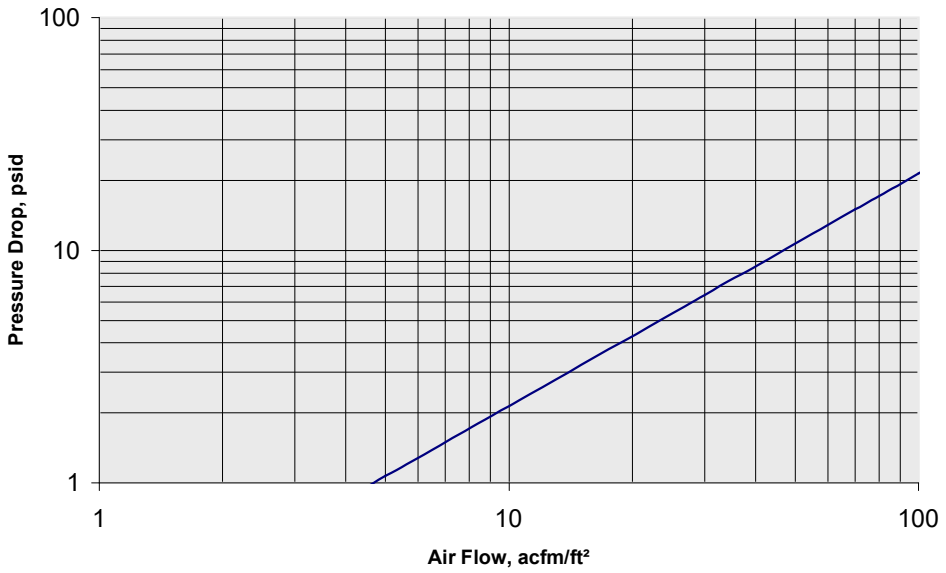

Notes:
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Mott Porous Metal Data Sheet

Media Grade:	**2**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.062 inches**		

Manufacturing Specifications

Bubble Point, inch water	17.0 - 24.0
Minimum Tensile, kpsi	12.8
Yield Strength, kpsi	7.2
Young's Modulus, x 10^6 psi	5.1

Permeability Coefficient

Liquid, K_L	1.5
Gas, K_G	24

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

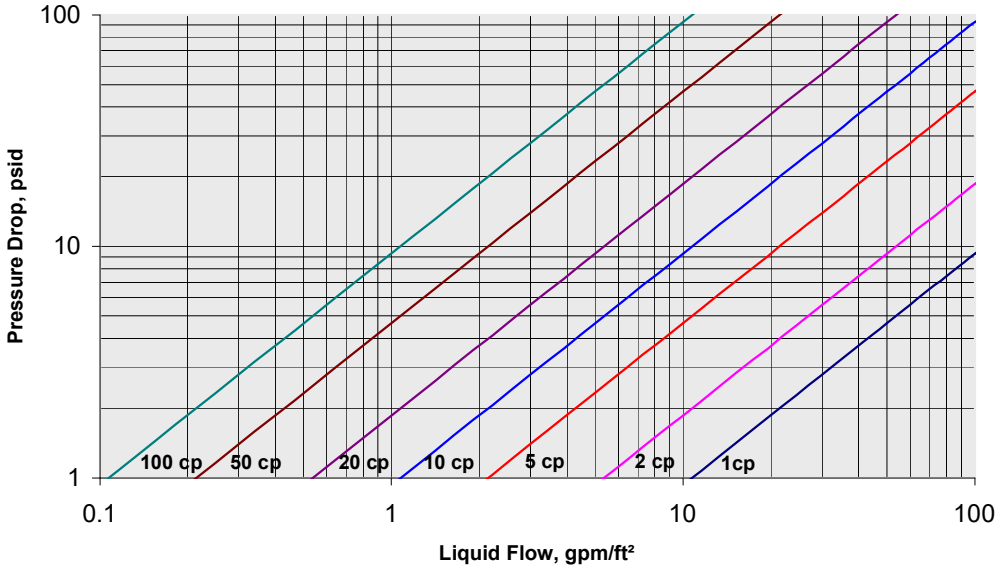
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft²

90% at 4 µm
99% at 5.5 µm
99.9% at 9 µm

Air Efficiency — Tested at flux of 6 acfm/ft²

90% at 0.3 µm
99% at 0.6 µm
99.9% at 2 µm



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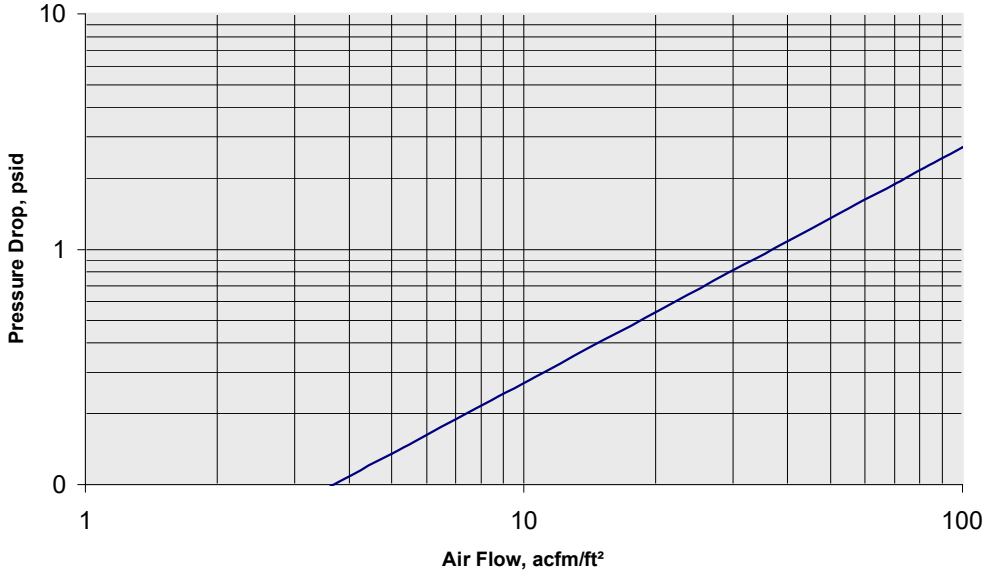
2 - Tests run with water, other curves generated using Liquid Formula



Notes:
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Mott Porous Metal Data Sheet

Media Grade: 5
Type: Pressed Disc
Alloy: 316LSS
Thickness: 0.062 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 10^6 psi	3.7

Permeability Coefficient

Liquid, K_L	1.25
Gas, K_G	19

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

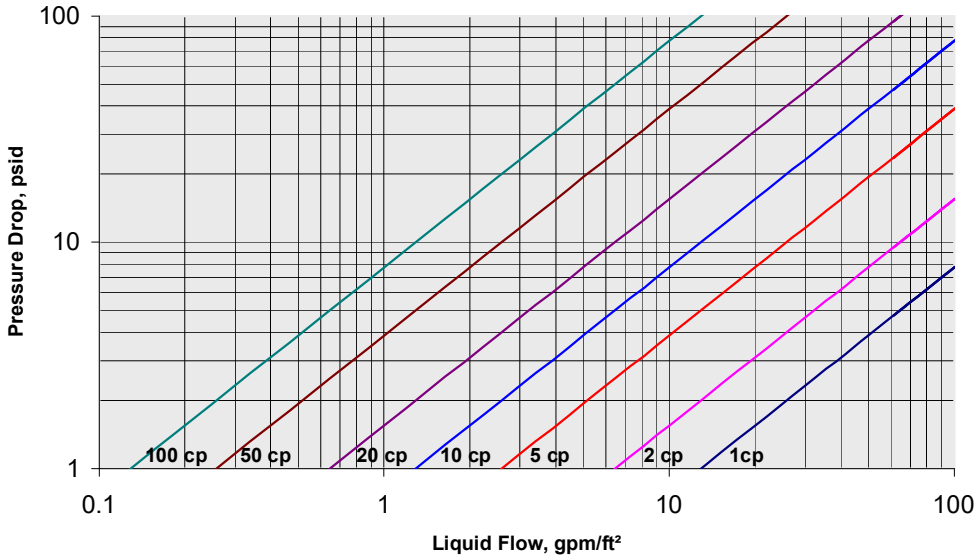
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft^2

90% at 5 µm
99% at 8 µm
99.9% at 13 µm

Air Efficiency — Tested at flux of 6 acfm/ft^2

90% at 0.8 µm
99% at 2 µm
99.9% at 5 µm



Notes:
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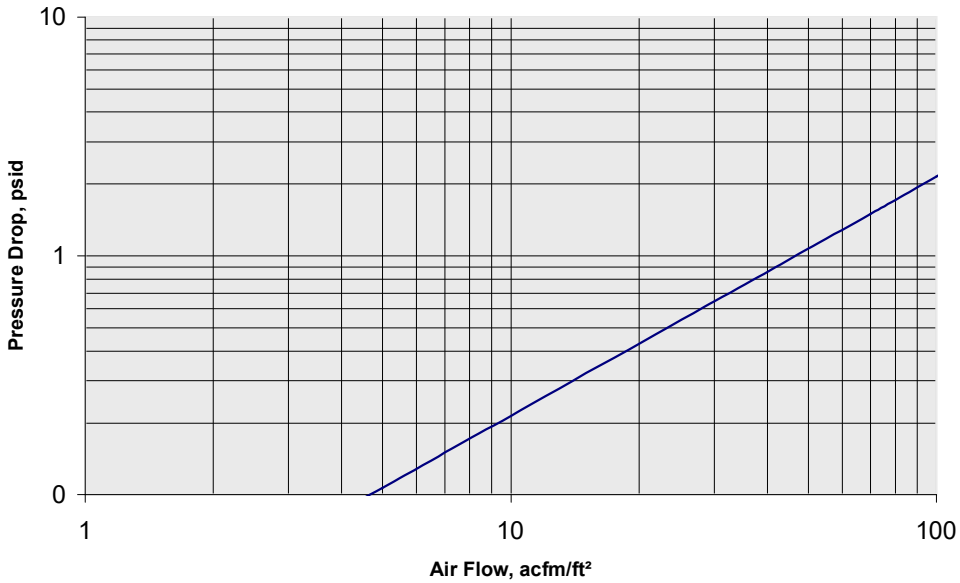

Notes:
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Mott Porous Metal Data Sheet

Media Grade:	**10**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.062 inches**		

Manufacturing Specifications

Bubble Point, inch water	7.5 - 10.9
Minimum Tensile, kpsi	5.0
Yield Strength, kpsi	3.7
Young's Modulus, x 10^6 psi	2.9

Permeability Coefficient

Liquid, K_L	0.45
Gas, K_G	8.7

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

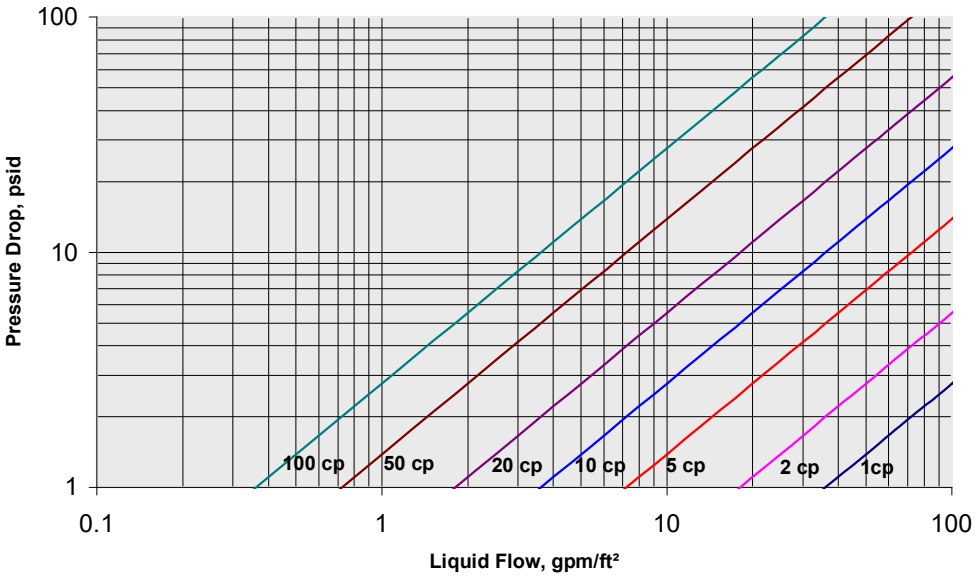
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft^2

90% at 10 µm
99% at 15 µm
99.9% at 20 µm

Air Efficiency — Tested at flux of 6 acfm/ft^2

90% at 4.5 µm
99% at 8 µm
99.9% at 13 µm



Notes:
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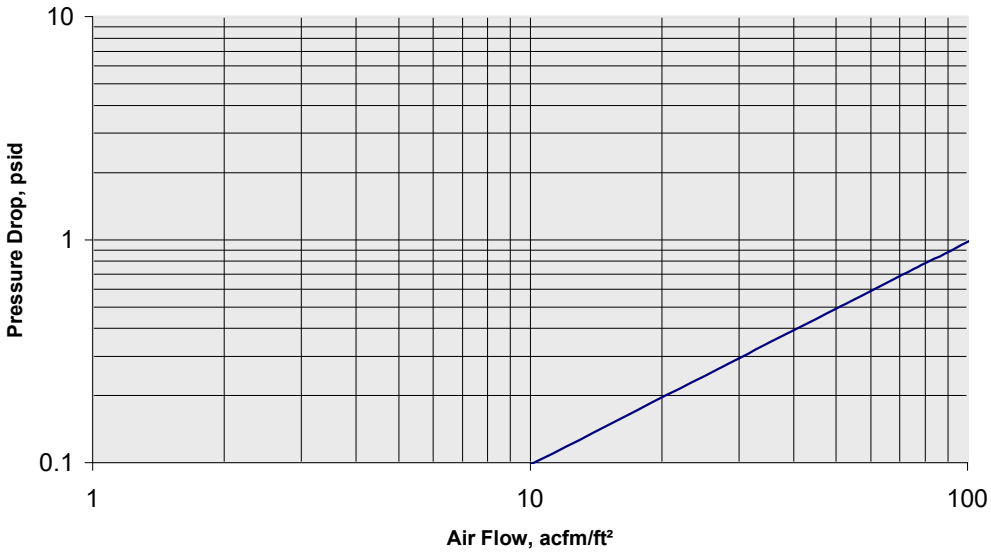

Notes:
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Mott Porous Metal Data Sheet

Media Grade:	**20**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.062 inches**		

Manufacturing Specifications

Bubble Point, inch water	5.0 - 7.0
Minimum Tensile, kpsi	4.5
Yield Strength, kpsi	2.9
Young's Modulus, x 10^6 psi	2.3

Permeability Coefficient

Liquid, K_L	0.46
Gas, K_G	7.6

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

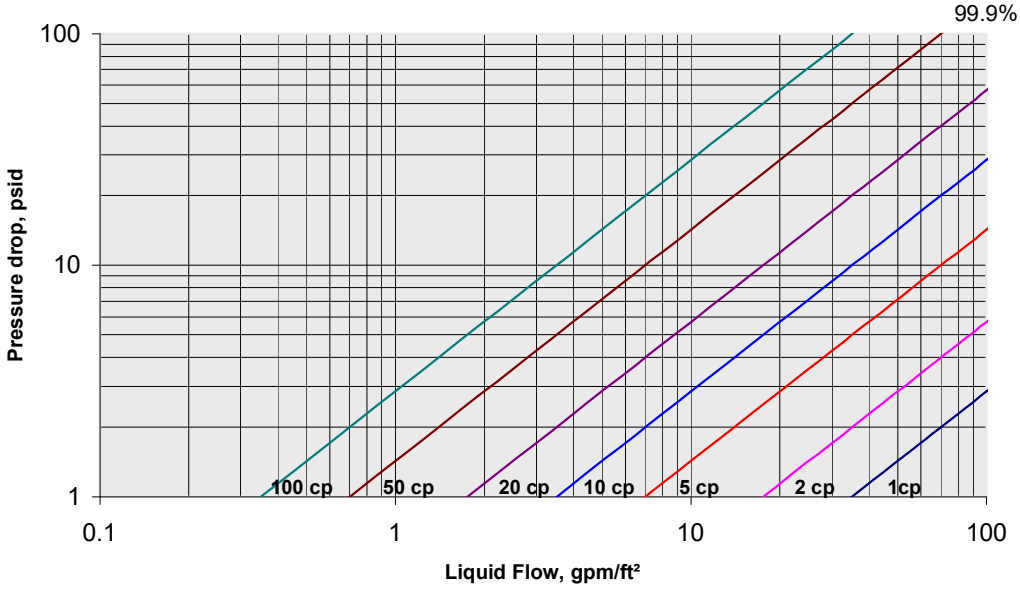
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft²

90% at 20 µm
99% at 25 µm
99.9% at 35 µm

Air Efficiency — Tested at flux of 6 acfm/ft²

90% at 8 µm
99% at 12 µm
99.9% at 20 µm



Notes:
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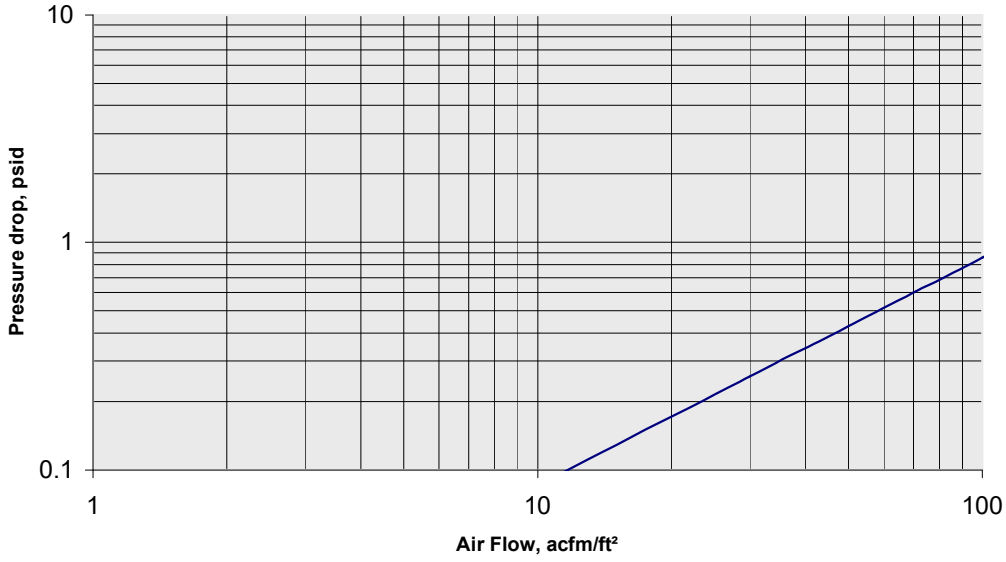

Notes:
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The characteristic values on this data sheet are nominal values that represent standard products and are intended for use as a design guide only. Critical To Quality (CTQ) characteristics must be specified on the drawings and verified.

Mott Porous Metal Data Sheet

Media Grade:	**40**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.078 inches**		

Manufacturing Specifications

Bubble Point, inch water	3.0 - 4.0
Minimum Tensile, kpsi	3.1
Yield Strength, kpsi	2.2
Young's Modulus, x 10^6 psi	1.8

Permeability Coefficient

Liquid, K_L	0.32
Gas, K_G	3.3

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

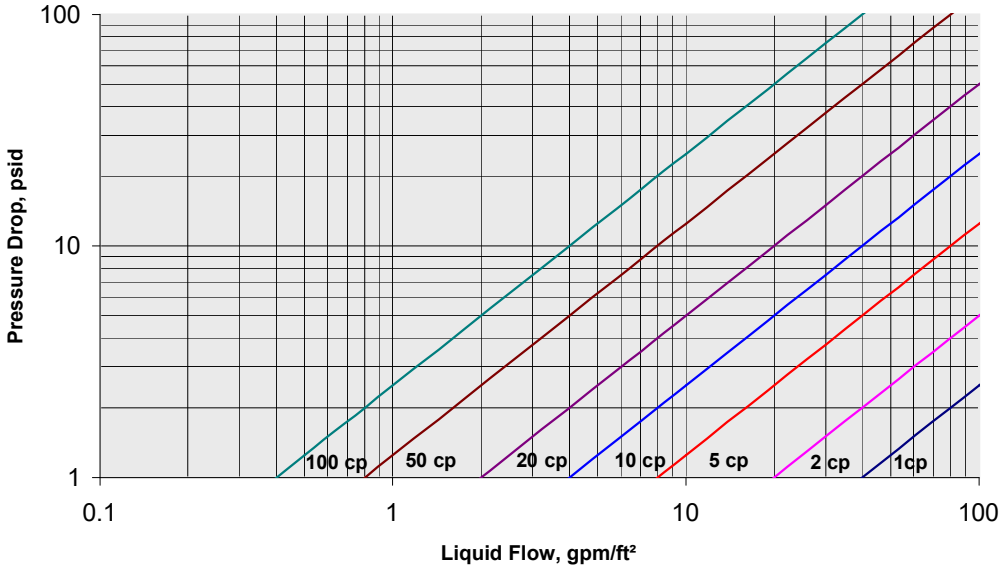
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft^2

90% at 25 µm
99% at 35 µm
99.9% at 45 µm

Air Efficiency — Tested at flux of 6 acfm/ft^2

90% at 12 µm
99% at 25 µm
99.9% at 45 µm



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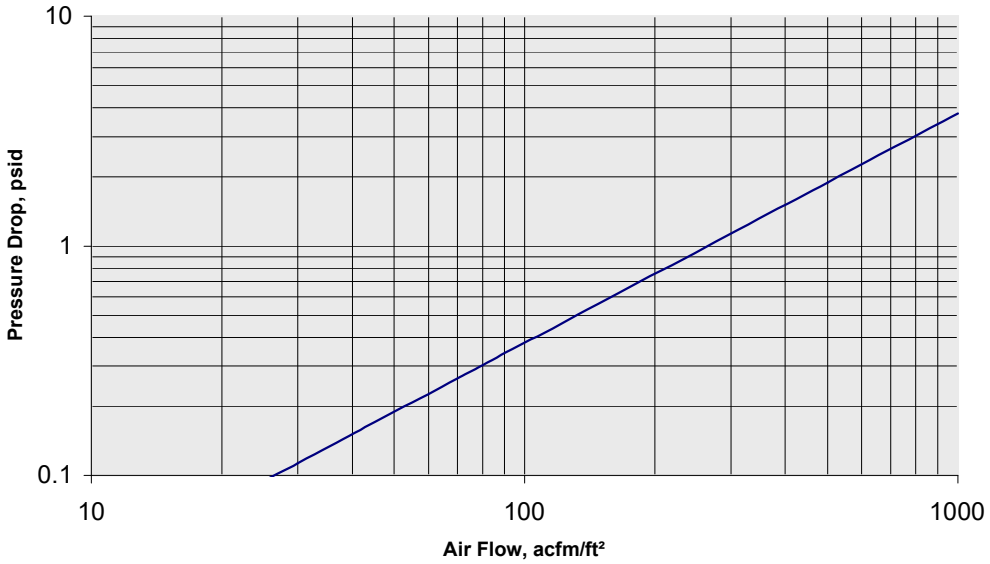

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Mott Porous Metal Data Sheet

Media Grade:	**100**	**Issued:**	**06/25/10**
Type:	**Pressed Disc**		
Alloy:	**316LSS**		
Thickness:	**0.093 inches**		

Manufacturing Specifications

Bubble Point, inch water	0.5 - 1.5
Minimum Tensile, kpsi	1.1
Yield Strength, kpsi	0.9
Young's Modulus, x 10^6 psi	1.3

Permeability Coefficient

Liquid, K_L	0.060
Gas, K_G	0.75

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

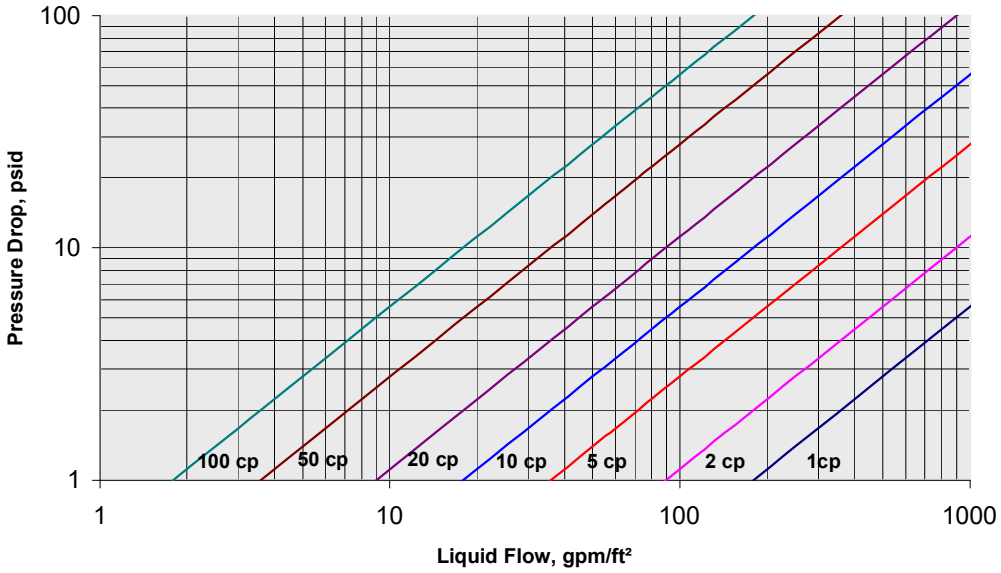
Particle Removal Efficiency

Liquid Efficiency — Testing per ASTM F795
Tested at 1 gpm/ft^2

90% at 50 µm
99% at 100 µm
99.9% at 150 µm

Air Efficiency — Tested at flux of 6 acfm/ft^2

90% at 20 µm
99% at 40 µm
99.9% at 100 µm



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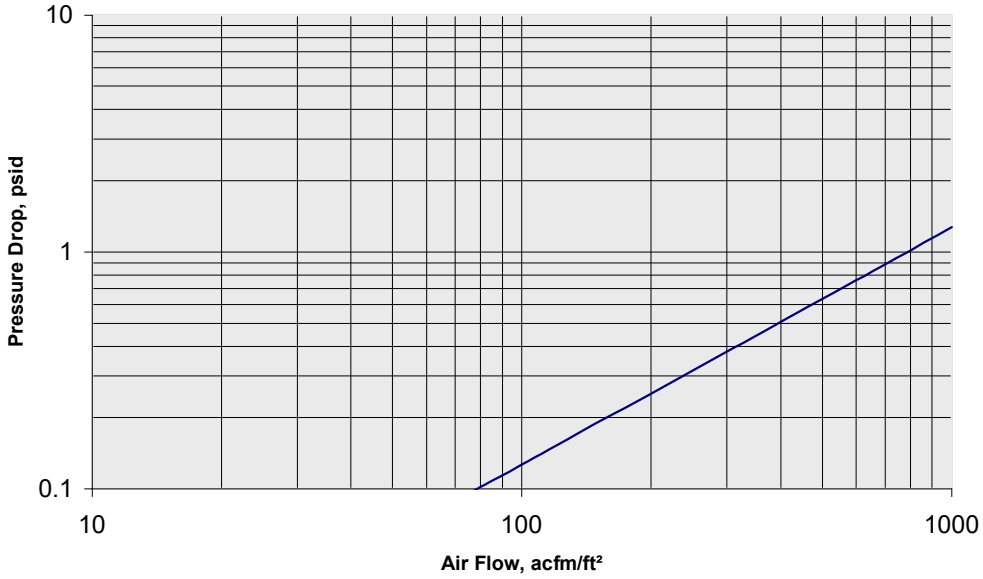

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