

Pressure Drop Chart of various Pipe in a DHW Re-Circ Application

Use this chart to determine the PD in 'Feet of Head' based on a given GPM in a DHW Re-Circ system

Type & Size of Pipe		GPM and resultant PD per Pipe Size at T.E.F.	
Copper Type M		140° F Average and Max Velocity of 3 ft/per second	
		Flow in GPM	Ft/Hd per foot
		Ft/Hd per 100 Ft	
Copper	3/8"	0.50	0.014
	-	0.75	0.029
	-	1.00	0.048
	-	1.25	0.071
	-	1.50	0.098
	1/2"	1.50	0.032
	-	1.75	0.042
	-	2.00	0.053
	-	2.25	0.066
	-	2.40	0.073
	3/4"	2.50	0.015
	-	2.75	0.017
	-	3.00	0.020
	-	3.25	0.023
	-	3.50	0.026
	-	3.75	0.030
	-	4.00	0.033
	-	4.25	0.037
	-	4.50	0.041
	-	4.75	0.045
	-	4.90	0.048
	1"	2.50	0.0040
	-	3.00	0.0060
	-	3.50	0.0080
	-	4.00	0.010
	-	4.50	0.012
	-	5.00	0.014
	-	5.50	0.017
	-	6.00	0.019
	-	6.50	0.022
-	7.00	0.025	
-	7.50	0.029	
-	8.10	0.033	

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		Maximum Velocity of 3 ft/per sec.	
Type & Size of Pipe	GPM and resultant PD per Pipe Size at T.E.F.		
	140° F Average and Max Velocity of 3 ft/per second		
Copper Type L	Flow in GPM	Ft/Hd per foot	Ft/Hd per 100 Ft
Copper	3/8"	0.50	0.015
	-	0.75	0.032
	-	1.00	0.053
	-	1.25	0.078
	1/2"	1.50	0.050
	-	1.75	0.065
	-	2.00	0.082
	3/4"	2.50	0.020
	-	2.75	0.024
	-	3.00	0.028
	-	3.25	0.032
	-	3.50	0.0367
	-	3.75	0.0414
	-	4.00	0.0463
	-	4.25	0.0515
	-	4.50	0.057
	1"	2.50	0.0059
	-	3.00	0.0081
	-	3.50	0.0106
	-	4.00	0.0134
-	4.50	0.0165	
-	5.00	0.0198	
-	5.50	0.0234	
-	6.00	0.0272	
-	6.50	0.0314	
-	7.00	0.0357	
-	7.50	0.0403	

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Pressure Drop Chart of various Pipe in a DHW Re-Circ Application

Use this chart to determine the PD in 'Feet of Head' based on a given GPM in a DHW Re-Circ system

		<i>Maximum Velocity of 2 ft/per sec. for dedicated Re-Circ line.</i>		
Type & Size of Pipe	GPM and resultant PD per Pipe Size at T.E.F.			
	120° F Average and Maximum Velocity of 2 ft/per second			
PEX-a SDR 9	Flow in GPM	Ft/Hd per foot	Ft/Hd per 100 Ft	
PEX-a SDR 9	3/8"	0.25	0.0124	1.24
	-	0.50	0.041	4.1
	-	0.60	0.061	6.1
	1/2"	0.75	0.023	2.3
	-	1.00	0.040	4.0
	-	1.10	0.045	4.5
	3/4"	1.00	0.007	0.7
	-	1.25	0.011	1.1
	-	1.50	0.015	1.5
	-	1.75	0.019	1.9
	-	2.00	0.025	2.5
	-	2.20	0.030	3.0
	1"	2.75	0.0132	1.32
	-	3.00	0.0160	1.60
	-	3.25	0.0177	1.77
	-	3.64	0.0215	2.15

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