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

Maximum Velocity of 3 ft/per sec.

Copper	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 M	Flow in GPM	Ft/Hd per foot	Ft/Hd per 100 Ft
	3/8"	0.50	0.014	1.4
	-	0.75	0.029	2.9
	-	1.00	0.048	4.8
	-	1.25	0.071	7.1
	-	1.50	0.098	9.8
	1/2"	1.50	0.032	3.2
	-	1.75	0.042	4.2
	-	2.00	0.053	5.3
	-	2.25	0.066	6.6
	-	2.40	0.073	7.3
	3/4"	2.50	0.015	1.5
	-	2.75	0.017	1.7
	-	3.00	0.020	2.0
	-	3.25	0.023	2.3
	-	3.50	0.026	2.6
	-	3.75	0.030	3.0
	-	4.00	0.033	3.3
	-	4.25	0.037	3.7
	-	4.50	0.041	4.1
	-	4.75	0.045	4.5
	-	4.90	0.048	4.8
	1"	2.50	0.0040	0.40
	-	3.00	0.0060	0.60
	-	3.50	0.0080	0.80
	-	4.00	0.010	1.00
	-	4.50	0.012	1.20
	-	5.00	0.014	1.40
	-	5.50	0.017	1.70
	-	6.00	0.019	1.90
	-	6.50	0.022	2.20
	-	7.00	0.025	2.50
	-	7.50	0.029	2.90
	-	8.10	0.033	3.30

DRAFT Only, not for distribution !

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

Maximum Velocity of 3 ft/per sec.

Copper	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
	3/8"	0.50	0.015	1.5
	-	0.75	0.032	3.2
	-	1.00	0.053	5.3
	-	1.25	0.078	7.8
	1/2"	1.50	0.050	5.0
	-	1.75	0.065	6.5
	-	2.00	0.082	8.2
	3/4"	2.50	0.020	2.0
	-	2.75	0.024	2.4
	-	3.00	0.028	2.8
	-	3.25	0.032	3.2
	-	3.50	0.0367	3.67
	-	3.75	0.0414	4.14
	-	4.00	0.0463	4.63
	-	4.25	0.0515	5.15
	-	4.50	0.057	5.7
	1"	2.50	0.0059	0.59
	-	3.00	0.0081	0.81
	-	3.50	0.0106	1.06
	-	4.00	0.0134	1.34
	-	4.50	0.0165	1.65
	-	5.00	0.0198	1.98
	-	5.50	0.0234	2.34
	-	6.00	0.0272	2.72
	-	6.50	0.0314	3.14
	-	7.00	0.0357	3.57
	-	7.50	0.0403	4.03

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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

Maximum Velocity of 2 ft/per sec. for dedicated Re-Circ line.

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
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

PEX-a SDR 9 ----------

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