

**STRAINER SIZING**

Knowing the pressure losses through strainers is essential to efficient sizing of piping systems. The personnel at Jamison have many years of proven experience in accurately calculating pressure drops for all types of applications. We will be pleased to correctly size your specific strainer application and advise pressure drop. Please let us know: type of fluid, flow rate, viscosity, specific gravity, size of filtration required and expected dirt loading if available.

**Mesh Comparison Chart**

Mesh #	Opening Inches	Opening Microns	Mesh #	Opening Inches	Opening Microns
10	.075	1905	60	.009	229
12	.060	1524	80	.007	178
14	.051	1295	100	.006	152
16	.045	1143	120	.0046	117
18	.039	991	150	.0041	104
20	.034	864	200	.0029	74
30	.020	508	250	.0024	61
40	.015	381	325	.002	50
50	.011	279			

**Perforated Basket Information**

Hole Size	Centers	% Open Area
1/32"	.033"	28
3/64"	.045"	36
1/16"	.062"	41
3/32"	.094"	33
1/8"	.125"	40
5/32"	.156"	63
3/16"	.188"	50
1/4"	.25"	40
1/4"	.25"	58
5/16"	.312"	46
3/8"	.375"	52
3/8"	.375"	40
1/2"	.5"	48
3/4"	.75"	51

**Flow Area of Std. Wt. Pipe**

Nominal Pipe Size	Cross Sectional Area in 2
1"	.864
1-1/2"	2.036
2"	3.356
3"	7.39
4"	12.73
6"	28.9
8"	50
10"	78.9
12"	113.1
14"	137.9
16"	182.7
18"	233.7
20"	291
24"	425

**Common Conversion Factors**

To convert from	to	Multiply by	To convert from	to	Multiply by
<b>FLOW</b>			<b>VISCOSITY</b>		
m3/hr	US gpm	4.405	Centistokes	Centipoise	SG
litre/min	US gpm	0.2641	<b>DENSITY &amp; SG</b>		
BPH	US gpm	0.7	1 lb/ft3	kg/m3	16.02
kg/hr	US gpm	(0.00442/SG)	1 kg/m3	lb/ft3	0.06243
<b>VOLUME</b>			<b>PRESSURE</b>		
m3	US gallons	264	Kg/cm2	psi	14.22
ft3	US gallons	7.4805	Kpa	psi	0.145
M3	Ft3	35.31	Bar	psi	14.5
Barrel	US gallons	42	psi	Inches Water g	27.68

NOTE: Due to Jamison's continuing commitment to product advancement, data presented herein is subject to change.