

## Hot Water Sizing Method For Honeywell Mixing Valve Selection

**Step 1** - Determine Fixture Units – Table 1

**Step 2** - Using Total Fixture Units determine load in Gpm from Table 2.

**Step 3** - Select product based on minimum flow requirement and allowable pressure drop (20 Psi).

Table 1 – Fixture Unit Worksheet							
Fixture	Fixture Units		Fixture Unit Calculation				Total
	Private	Public	# of Fixtures	(multiply by)	Fixture Units	Equals	
Lavatory	1	2		x		=	
Kitchen Sink	2	4		x		=	
Bathtub	2	4		x		=	
Separate Shower	2	4		x		=	
Clothes Washer	2	4		x		=	
Dish Washer	1	2		x		=	
						<b>Total</b>	

**Example** – A system with 40 Lavatory (Private), 40 Bathtubs (private) and 5 Lavatory (public) has total fixture count of 130 fixture units. From Table 2 - 130 fixture unit = 38 Gpm

Table 2 – Domestic Hot Water Demand – Load Data							
Fixture Units	Gpm		Fixture Units	Gpm		Fixture Units	Gpm
2	2		55	23		350	72
6	4.5		60	24		400	78
10	6.5		70	27		450	86
14	8.5		80	29		500	93
20	11		90	31		550	100
24	13		100	33		600	107
30	15		130	38		650	115
34	16.5		160	43		700	122
40	18.5		200	49		750	130
45	20		260	58		800	134.5
50	21		300	64		1000	156

Mixing Valve Selection Chart								
Product	Min Flow GPM	Outlet Size Inch	System Differential Pressure Drop (PSI)					
			5	10	15	20	25	30
<b>AM-1 Series</b>								
AM100(C)-1	0.5	½"	7	10	12	14	16	18
AM101(C)-1	0.5	¾"	8	12	15	17	19	21
AM102(C)-1	0.5	1"	10	14	17	19	21	24
AM10x-Ux-1	0.5	½" thru 1"	9	12	15	17	20	21
AM10xC1070-Ux-1	0.5	½" thru 1"	4	6	7	8	9	10
<b>AMX-1 Series</b>								
AMX10x-Ux-1	0.5	½" thru 1"	9	13	15	18	20	22
<b>Single High Capacity MX Series</b>								
MX127(C)	1	1"	9	13	15	18	20	22
MX128(C)	2.5	1¼"	21	29	36	42	47	51
MX129(C)	3.5	1½"	30	43	52	60	68	74
MX130(C)	5	2"	40	57	70	80	90	99
MX131	8	2½"	76	108	132	152	170	186
MX132	12	3"	112	158	194	224	250	274

Note: AM10x-Ux-1 represents all union AM Series valves (Sweat –US and Threaded –UT). (C) temperature range 80°F to 120°F; without (C) standard temperature 110°F to 150°F (100°F to 145°F for AM series)

This sizing method is a general guideline. Please refer to local building and plumbing codes for additional guidance.