

# WATER PIPE SIZING

# SMALL RESIDENTIAL

BP# \_\_\_\_\_ Address: \_\_\_\_\_  
 \_\_\_\_\_

Plumbing contractor: \_\_\_\_\_  
 Phone # \_\_\_\_\_ Cell # \_\_\_\_\_

**Private Use:** Means fixtures in residences and apartments, in private bathrooms of hotels and in similar installations in other buildings for one family or individual.

Type of water pipe used: \_\_\_\_\_

Fixture type:

- Bath (with or without shower)
- Clothes washer
- Dishwasher (domestic )
- Drinking fountain
- Hose bibb
- Lav
- Sink
- A) kitchen (domestic )
- B) kitchen (commercial)
- C) service
- D) service with direct flush valve
- Shower head
- Urinal
- A) flush tank
- B) direct flush valve
- C) self closing metering valve
- Water closet
- A) flush tank
- B) direct flush valve

Min. Supply Pipe	Hydraulic load per fixture			-0.25	
	type	#	Cold		Hot
1/2"	2	x			
1/2"	3	x			
1/2"	3	x			
3/8"		x			
1/2"	7	x			
3/8"	1	x			
1/2"	2	x			
1/2"	0				
1/2"	0				
3/4"	0				
1/2"	2	x			
1/2"	0				
3/4"	0				
1/2"	0				
3/8"	3	x			
1"	6	x			
Total F.U					

Copper and PVC

Size	Cold	Hot	C.F.V
1/2"	3.5	2.5	0
3/4"	9	7.5	0
1"	18	14	0
1 1/4"	29	22	0
1 1/2"	46	34	10
2"	120	81	43
2 1/2"	245	170	125
3"	400	295	275
4"	850	600	800

Cold		Hot	
PIPE	F.U.	SIZE	F.U.
A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			
L			
M			
N			
O			
P			
Q			
R			
S			
T			
U			

Pex /CPVC/ Duct Tile

Size	C/H	C.F.V
1/2"	7	0
3/4"	17	0
1"	30	0
1 1/4"	54	13
1 1/2"	102	35
2"	265	140
2 1/2"	500	390
3"	750	695
4"	1800	1800

Supply	Hydraulic load	
	Private	Public
3/8"	1	2
1/2"	2	4
3/4"	3	6
1"	6	10

Use separate sheet for isometric drawing