

# WATER PIPE SIZING

# SMALL RESIDENTIAL

**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.

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

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

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

Fixture type:	Min. Supply Pipe
Bath (with or without shower)	1/2"
Clothes washer	1/2"
Dishwasher (domestic )	1/2"
Drinking fountain	3/8"
Hose bibb	1/2"
Lav	3/8"
Sink	
A) kitchen (domestic )	1/2"
B) kitchen (commercial)	1/2"
C) service	1/2"
D) service with direct flush valve	3/4"
Shower head	1/2"
Urinal	
A) flush tank	1/2"
B) direct flush valve	3/4"
C) self closing metering valve	1/2"
Water closet	
A) flush tank	3/8"
B) direct flush valve	1"

Hydraulic load per fixture type	#		-0.25	Hot
	Cold	Hot		
2	X			
3	X			
3	X			
	X			
7	X			
1	X			
2	X			
0				
0				
0				
2	X			
0				
0				
0				
3	X			
6	X			
Total F.U				

Copper and PVC Size	Copper and PVC		C.F.V
	Cold	Hot	
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

Pex /CPVC/ Duct Tile Size	Pex /CPVC/ Duct Tile		C.F.V
	C/H		
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

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

Items not listed	Hydraulic load	
	Private	Public
Supply		
3/8"	1	2
1/2"	2	4
3/4"	3	6
1"	6	10

Use separate sheet for isometric drawing