

WATER PIPE SIZING

SMALL COMMERCIAL

BP# _____ Address: _____

Public use: means fixtures in general washrooms of schools, gymnasiums, hotels, bars, public comfort stations and installations where fixtures are installed so that their use is unrestricted.

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"

Public Hydraulic load per fixture	#		-0.25
	Cold	Hot	
4	X		Hot
0	X		
0/3	X		
1	X		
7	X		
2	X		
0/2	X		
4	X		
3	X		
5	X		
4	X		
3	X		
5	X		
0	X		
5	X		
10	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

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

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

urinal

Use separate sheet for isometric drawing