

WATER PIPE SIZING

SMALL COMMERCIAL

BP# _____ Address: _____

Plumbing contractor: _____

Phone # _____ Cell # _____

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.

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
1/2"
1/2"
1/2"
3/8"
1/2"
3/8"
1/2"
1/2"
1/2"
3/4"
1/2"
1/2"
3/4"
1/2"
3/8"
1"

Public Hydraulic load per fixture			#	Cold	Hot	-0.25	
4	x						
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

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				

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

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

urinal

Use separate sheet for isometric drawing