Plumbing
Lesson Five: Pipe Fittings and Parts

Facilitator Materials

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Pipe Fittings and Parts

1. PVC 90° elbow
2. PVC 1/4 bend
3. PVC threaded coupling
4. CPVC tee
5. PVC double tee
6. PVC cross
7. PVC bushing
8. PVC union
9. CPVC male adapter
10. PVC clean out
11. ABS closet flange
12. ABS cap
13. ABS p-trap
14. ABS wye
15. Brass coupling
16. Brass cross
17. Brass floor flange
18. Brass bushing
copper double elbow

19

copper wye

20

copper double wye

21

copper cross

22

copper union

23

copper female adapter

24

copper male adapter

25

galvanized steel 90° elbow

26

galvanized steel 45° elbow

27

galvanized steel nipple

28

black iron reducing tee

29

black iron 90° street elbow

30

black iron plug

31
black iron floor flange  
black iron hex bushing  
cast iron clean out  

chrome p-trap
Angles and Fractions

When a fitting has an angle or curve in it, its name will have a degree (°) or a fraction (¼) in it. The degree or fraction describes how big the curve is in the fitting.

Degrees of Angles or Curves

- 90 degree angle
  - 90° angle

- 45 degree angle
  - 45° angle

- 22 ½ degree angle
  - 22 ½° angle

Fractions

- 1/4 bend
  - one quarter bend
  - Color 1/4 of the circle.

- 1/8 bend
  - one eighth bend
  - Color 1/8 of the circle.

- 1/16 bend
  - one sixteenth bend
  - Color 1/16 of the circle.
90 degree elbow (or bend) 45 degree elbow reducing tee

cross 90 degree reducing elbow union

flange 90 degree reducing elbow tee

locknut cap square head plug

hex bushing cap nut
coupling

female connector

female union

male connector

90 degree male elbow

union

45 degree male elbow

tee

union elbow

branch tee

reducing coupling

cap

branch tee

90 degree male elbow

cross
face bushing  
hex nipple  
hex coupling  
male run tee  

45 degree street elbow