

## Cheap bicycle pump air cannon. By Dr. Bill W4EDN

I wanted to make one on the cheap side so here it is.



Cheap changes :

Ball valve vs elec valve

2 in air chamber vs 4 in.

Ball valve detail: I used a threaded valve for 2 reasons:

1: It was all they had in stock

2: permits me to remove the barrel for shorter storage.

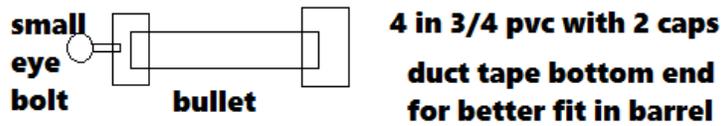
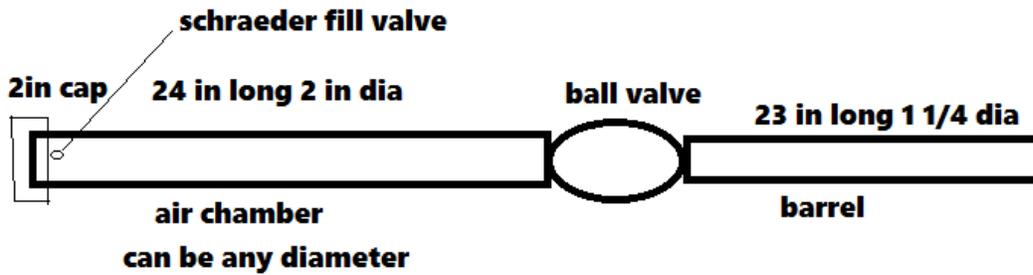
A glue on valve is cheaper and so are the interface fittings. I used it in the parts list below.



Here is the bullet. Wrap the low end with duct tape for a tighter fit in barrel.



Dimensions



Material list and cost.

Barrel: 24 in 1 ¼ dia PVC	10 ft for \$5	2ft for \$1.00
Barrel to valve bushing	1.09	
Valve	6.92	
Valve to chamber bushing	1.97	
Air Chamber 24 in 2 in dia. PVC	10 ft. for 9.12	2 ft. for \$2.00
Chamber cap	1.70	
Schrader valve (Amazon \$8.25) I got mine at an auto parts store for about \$3.		
Subtotal	17.68	



2 Bullets

2 – 4 in piece of ¾ pvc	10 ft for 2.93 = 30 pcs = 0.10 ea
4 ¾ pvc caps	\$ .58 ea \$2.32
2 screw eyes (\$1.18 pr)	1.18

Subtotal 3.60

Total cost \$21.28

Use bicycle pump with gauge to pump up to 40-60 psi (depending on weight of line), I use 1/8 nylon twine to pull over 1/4 or 3/16 nylon or paracord. Amazon \$17. So I use 60 psi.



Directions:

- 1 Close valve.
- 2: pump up to desired pressure.
- 3: load bullet with string or fishing line attached.
- 4: point over tree or limb (I point about a foot or 2 over the limb I want.
- 5: quickly open valve.

Try a few times without and with string attached to get the feel of it.

DO NOT DROP, pvc is brittle and fittings will break.... I KNOW !