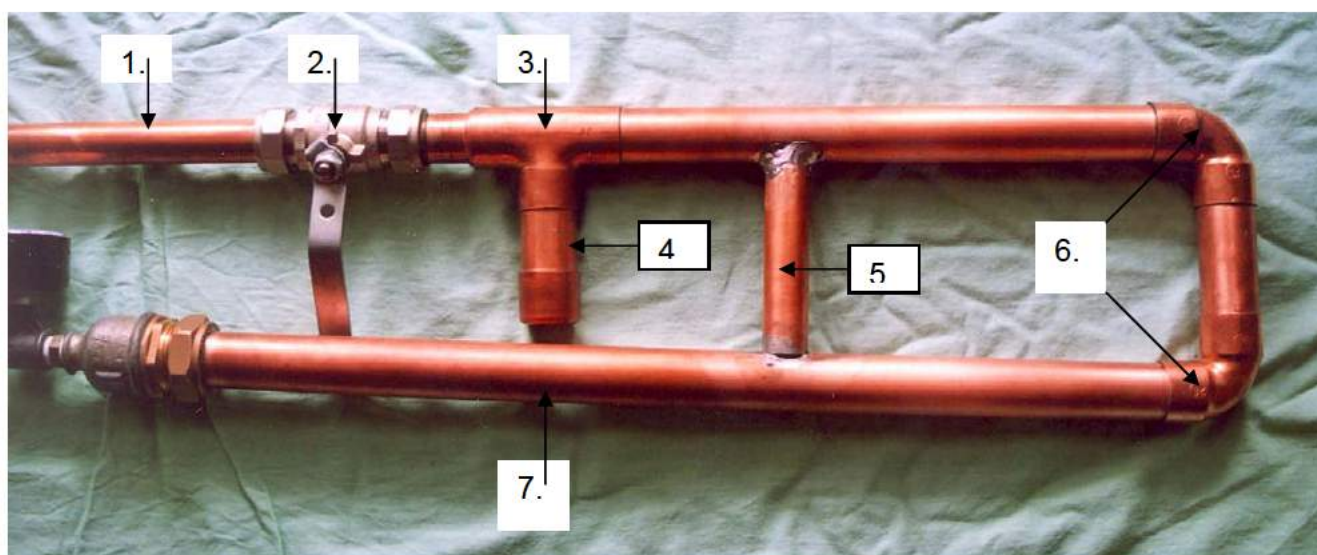


AIR POWERED ARROW RIFLE

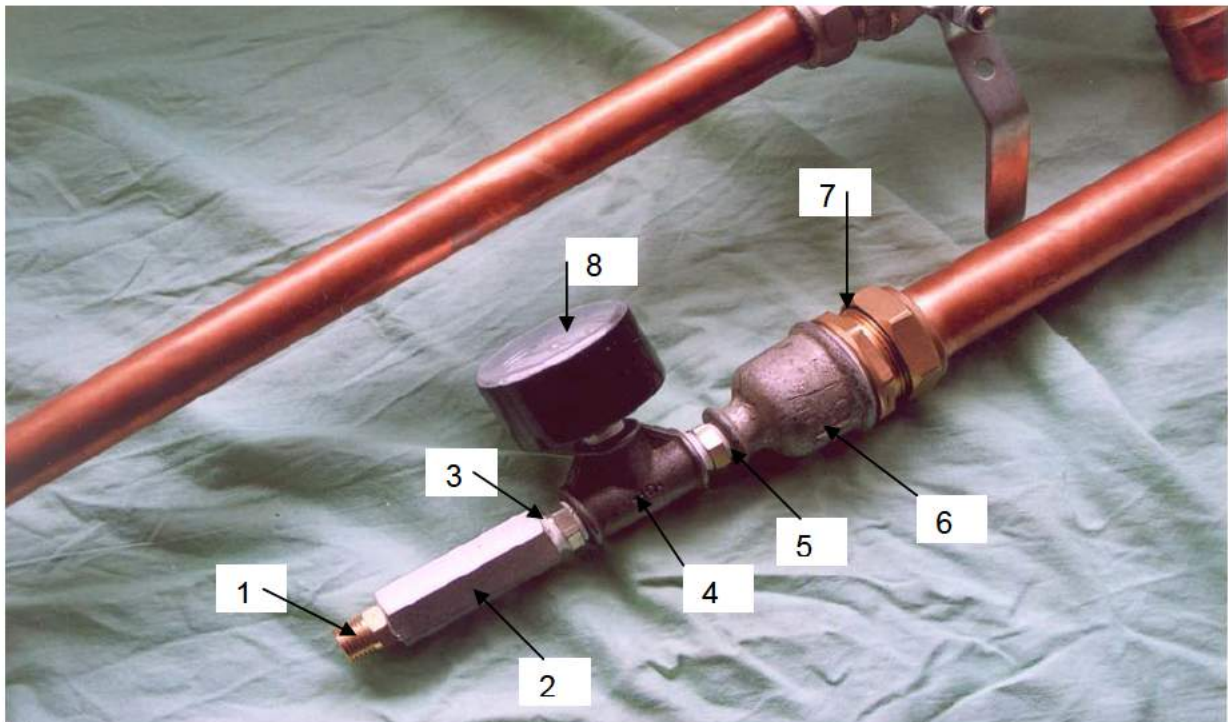
This pneumatic arrow shooting rifle is made from copper plumbing tube.



The weapon is constructed of 22mm and 28mm plumbing tube and fittings available from any plumbers merchant.

Components (Above photo)

1. 22mm tube (Barrel)
2. 22mm 'full bore gas lever'.
3. 28x28x22mm unequal 'T'
4. 28mm tube and 'stop end' (Grip)
5. 22mm tube (This is a 'brace' to ensure the top and bottom tube sections of the air reservoir remain rigid. It is soldered in position).
6. 28mm elbows.
7. 28mm tube (Air reservoir)

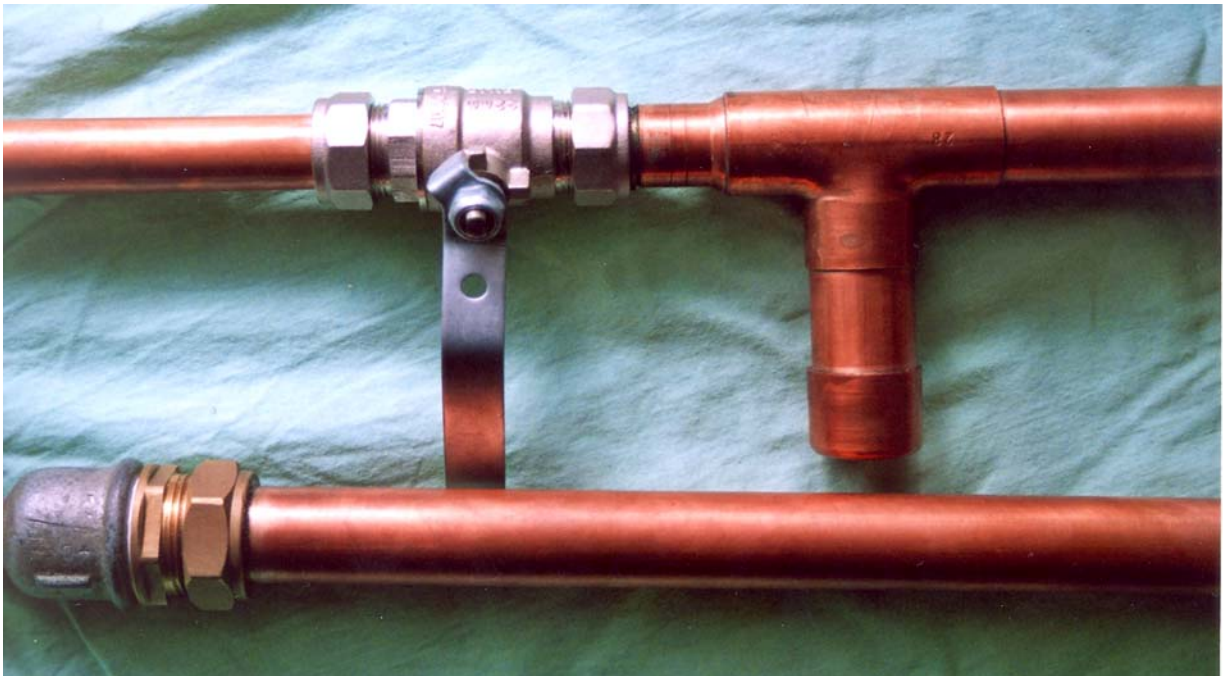


Components (Above photo)

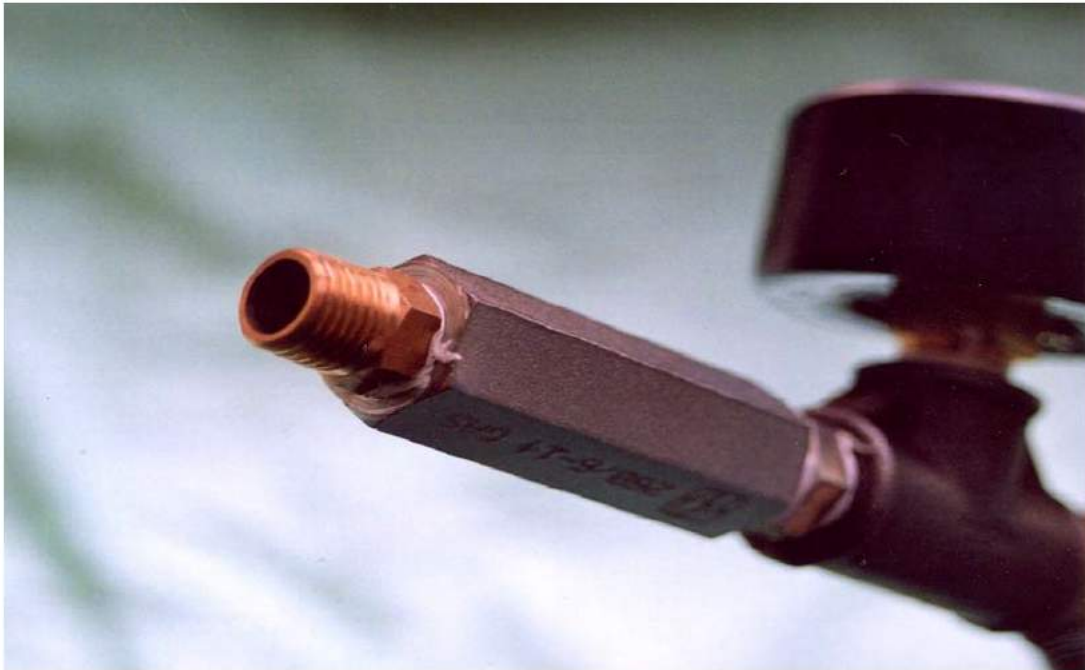
1. 1/4" BSP coupling (A stirrup pump is fitted to this to permit air to be pumped into the rifle).

2. One way 'check valve'. This has a pressure rating of 6000psi. However, the air reservoir must be pumped to no higher pressure than 300psi.
3. ¼" BSP coupling.
4. ¼" BSP iron (or brass) 'T'
5. ¼" BSP coupling.
6. 1" x ¼" BSP iron reducer.
7. 28mm copper /1" iron coupling.
8. Air pressure gauge with ¼" thread.

The gas lever (below) acts as a trigger. It is operated by pulling it using three or four fingers.



This photo shows the fill station assembly.



Arrows are modified by the addition of two tap washers pressed over the arrow as shown below. The end of the arrow is chamfered using a file to allow the washers to press over the arrows shaft. When the washers are fitted they will expand to be a perfect fit inside the barrels bore.



**Note; Working with compressed air can be very dangerous.
Therefore, this document is offered for academic study only.**

And for those of you who wish to know about the “inspiration” we had to create & build such a gun, and how potent it is, look at the following images taken from websites on the Internet...

Those Airguns are basically the same thing as our “improvised” ARROW RIFLE, but much more well finished, and much more expensive as well...

The SWIVEL AIRROW costs from US\$ 1,199.00 up to more than US\$ 2,000.00; the MAG-AIR is out of production and can value more than US\$ 5,000.00, maybe much more!

Ah, well, you can build your own ARROW RIFLE to do just the same things as these great Airguns, for a fraction of the price of that ones.

AIRROW® STEALTH

Airrow Stealth Model 8SRB

Rifled Barrel Available in .25 Caliber with (9) Shot Action



Airrow Stealth Model 8S1P

Archery Model pictured, 10 Available models



AIRROW® PRICE LIST

Article No.	Item	Retail Price
A8S1P	AIRROW ARCHERY MODEL (A-8S1P) STEALTH Complete with - 16" Barrel Assembly (2512), Air Trigger, Broadhead Guard, Car Stock, Scope Rings, 7 oz. Rechargeable Cylinder and Valve Models (A-8S) Perform to 2,000 PSIG Above or Below Water Levels	\$1,699.00
A8115	SCOPE - 1.5 - 5x20mm (install and boresight) ADD	149.00
A8SL1	AIRROW LINE MODEL (A-8SL1) STEALTH Complete with - (2) Piece Barrel Assembly, Line Canister, and ATA-300 Transport Case.	\$1,896.00
A8SH1	AIRROW HARPOON MODEL (A-8SH1) STEALTH Complete with - (2) Piece Barrel Assembly, (1) Two-Piece Harpoon, Lance and Dart, 7 oz. Rechargeable Cylinder and Valve, Harpoon Line. Stealth Models will accept all Series 6, 7 Barrels and Projectiles.	\$1,697.00
A8SRB	AIRROW RIFLED BARREL MODEL (A-8SRB) STEALTH Complete with - 20" Barrel, Calibers (.177-.25), 9 Shot Action, Air Trigger, Car Stock, Scope Rings, 7 oz. Rechargeable Cylinder and Valve.	\$2,299.00
A10H1	AIRROW HARPOON MODEL (A-10H1) Complete with - (2) Piece Barrel Assembly, (1) Two-Piece Harpoon, Lance and Dart, 7 oz. Rechargeable Cylinder and Valve, Harpoon Line.	\$1,199.00
AT11P	Air Trigger (Adjustable) Model STEALTH NEW	169.00
RG815	Regulator (Adjustable 800-1500 PSIG) Model STEALTH NEW	189.00
HAR1A	Harris Bypod Adapter Model STEALTH	39.00
CV702	Cylinder and Valve (7 oz.) Rechargeable (1,800 PSIG)	109.00
CV502	Cylinder and Valve (5 oz.) Rechargeable (2,000 PSIG)	149.00
C02AD	12 Gram CO2 Adapter (Small Neck Powerlet)	64.00
C03AD	25 Gram CO2 (Threaded) Cartridge Adapter - 3/8" - 24 Thread (will also accept 8, 12, 16 and 38 gram CO2 Threaded Cartridges)	69.00
FA320	Cylinder Fill Adapter and Valve (CO2) CGA 320	66.00
FAGST	Cylinder Fill Adapter and Gauge (Air) Scuba Tank	139.00
FA346	Cylinder Fill Adapter and Gauge (Air) CGA 346	119.00
STAR3	Remote Scuba Tank Regulator Adapter, Hose and Adapters (HP Port Hookup) Recommended for Diver Use - Includes Stainless Shutdown Valve	266.00
AQK06	Arrow Quiver (6 Arrows) Hip Mount	43.00
W8518	Waterproof case (18.5" x 14.6" x 5.7") Black	159.00
ATA36	ATA300 Transport Case (36x13x7)	397.00
MIL36	Mil/Spec Fiberglass Transport Case (13x13x7)	559.00
ARROWS (Aluminum Inserts) EASTON-XX75		
A1025	Arrows (Per 6) 10.75" (2512)	29.00
A1625	Arrows (Per 6) 16.00" (2512)	35.00

ARCHERY BARRELS (Complete) 2512		
B1025	Archery Barrel 10.75"	129.00
B1625	Archery Barrel 16.00"	149.00
G1125	Broadhead Guard (Maximum Broadhead Diameter - 1.187")	59.00
RIFLED BARREL AND ACTION - (.177-.25 CAL.) Complete - Series 8SSTEALTH		
RB125		549.00
RIFLED BARREL AND ACTION - (9mm / .38 CAL.) Complete - Series 8SSTEALTH		
RB138	Barrels include (9) Shot Action, Scope Adapter, Barrel Shroud and Sling Swivel Stud	599.00
MISCELLANEOUS ITEMS		
	Tranquilizer Syringe and Needles (Cap-Chur, Distinject, Telinject and Ballistivet)	POR
TRANQUILIZERS AND ADAPTERS		
TT111	Tranquilizer Tail Section (Fletched) Specify 4", 6", or 8" (for use with archery barrels)	8.00
TA250	Tranquilizer Syringe Adapter for 2512 Arrow Tail Section (for use with archery barrels) Parts TT111 ad TA250 are for use with CAP-CHUR and DISTINJECT 13mm Syringes.	12.00
CO2 Cartridges (Non Rechargeable) 3 / 8" - 24 Thread and Small Neck Powerlet		
C0225	25 Gram CO2 (Threaded) Cartridge - (Recommended)	4.00
Broadheads		
1903S	Hi-Tech 80 Grain (3) Blade 6 Pack	33.00
2703S	Hi-Tech 85 Grain (3) Blade 6 Pack	33.00
TARGET	Target - (Will Stop Arrows Shot From Series 8S To Speeds of Over 600 F.P.S.)	49.00

SPECIFICATIONS AND PERFORMANCE DATA

AIRROW MODEL A 7722 Length - with 16" barrel - 38.75" Weight - w/o Rings or Scope - 4.7 lbs. Sights - rings furnished Stock - walnut, rubber recoil pad Power - Airrow .22 LR Blank Projectile - 2512 / 16" arrow Performance - to 435 FPS w/2512	AIRROW MODEL A 1022 Length - with 16" barrel - 38.0" Weight - 4.4 lbs. Sights - none furnished Stock - walnut, rubber recoil pad Power - Airrow .22 LR Blank Projectile - 2512 / 16" arrow Performance - to 435 FPS w/2512	AIRROW MODEL A 7001 Length - with 16" barrel - 43.0" Weight - w/o Rings or Scope - 7.4 lbs. Sights - rings and bases furnished Stock - composite, rubber recoil pad Power - Airrow .223 Blank Projectile - 2512 / 16" arrow Performance - to 500 FPS w/2512
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AIRROW MODEL A-8S1P STEALTH
Length with - (16" Barrel) 30.125" Overall
Weight without - (Scope and Rings) - 3.5 lbs.
Barrel Length - 16" (2512) Optional 10.75" Available
Sights - Scope Rings Included

Trigger - Pneumatic Air Trigger (Adjustable)
Power - CO2 or Compressed Air to 2,000 PSIG
Muzzle Energy - to 200 ft. lbs.
Performance with - (2512/16" Arrow) - 600 FPS
Optional Performance Regulator (Adjustable 800-1500 PSIG)



AIRROW MODEL A-8SL1 STEALTH
Length with - (1) Piece Barrel 31.5" Overall
Length with - (2) Piece Barrel 48.4" Overall
Weight with - (line Canister) - 5.0 lbs.
Power - CO2 or Compressed Air (SCBA) or (SCUBA) to 2,000

PSIG
Payload Capabilities - to 4 lbs. in Weight
Performance with - Spectra 1000 line #300 - to 600'
Performance with - Spectra 1000 line #500 - to 500'
Performance with - Spectra 1000 line #700 - to 400'
Performance with - Buoyancy Canister - 300'
Performance with - (2) Piece Harpoon - to 160 FPS
Performance with - Grapnel Hook w/Spectra 1000 Line - 350'



AIRROW MODEL A-8SH1 STEALTH
Length with - (1) Piece Barrel 31.5" Overall
Length with - (2) Piece Barrel 48.4" Overall
Weight with - (2) Piece Barrel - 4.0 lbs.

Power - CO2 or Compressed Air to 2,000 PSIG
Muzzle Energy - to 800 ft. lbs.
Performance with - (2) Piece Harpoon to 170 FPS



AIRROW MODEL A-8SRB STEALTH
Length with - (20" Barrel) 35" Overall
Weight with - (Scope Rings) - 7.5 lbs.
Sights - Scope Rings Included
Trigger - Pneumatic Air Trigger (Adjustable)

Power - CO2 or Compressed Air to 2,000 PSIG
Action - (9) Shot Standard, Optional Single Shot
Caliber - .177 - .38
Velocity - 1,100 FPS in all Calibers
Muzzle Energy - to 100 ft. lbs.
Optional Performance Regulator (Adjustable 800-1,500 PSIG)

Mag-Air 1180

The worlds' most powerful and versatile air gun.



The Mag-Air 1180 is a completely new concept in air gun design. Using a large bore (1.180) it is able to shoot virtually any projectile that is at or below the bore diameter. The Mag-Air 1180 uses sabots or carriers to seal various projectiles to the bore.

The force at which a projectile is launched is determined just as the gun's reservoir is charged by holding down the charging button until the desired pressure is reached. For average use on big game 250psi is adequate up to 65 yards. Beyond this the pressure may be increased to flatten the trajectory which keeps your point of aim the same out to 125 yards. At max pressure,(750psi) the velocity with a 575gn. X 4.75in. long steel dart is 560 feet per second. Currently there are no known bows, crossbows, or air guns that can come close to the performance of the Mag-Air 1180. The steel dart that the Mag-Air 1180 shoots will completely penetrate 6in. or more of dense wood. The Mag-Air 1180 is a precision and rugged piece of equipment that will give many years of reliable service. The only wear items in the Mag-Air 1180 are a couple of easily replaceable and inexpensive O-rings. The construction of the Mag-Air 1180 is of the highest quality using only aircraft grade materials.

Among the "Mag-Air 1180's" uses are:

Hunting of both large and small game using steel darts or arrows of various lengths with blunts or broadheads.

Pest and bird control in buildings or confined areas, using munitions such as barley, corn, or dampened rags which will not cause damage to buildings but are lethal to birds and small rodents.

Fishing with harpoons.

Shooting tranquilizer darts for zoos and animal control, etc...

Police and riot control, using various non-lethal projectiles.

Line throwing for search and rescue and utility companies.

It even has the capability to be used by farmers for orchard pollination.

The Mag-Air 1180 is able to shoot a conventional 325gn. X 28in. plastic fletched arrow over 800 yards.

Specifications of Mag-Air 1180:

Caliber - 1.180

Weight - 8lb 3oz

Barrel Length - 30in

Sight - Red Dot Type 3/8" rail

Pressure - Max 750psi

Propellant Gas - air, nitrogen, CO₂

Safety - valve blocking type

Loading Type - Breech (bolt action) or muzzle loading

Bore Area - 1.09² in.

Bore Type - Smooth

Price (gun) - \$3250.00

The Mag-Air 1180 is built on a custom order basis with current delivery about 90 days from receipt of deposit which is \$1500.00. Optional accessories include composite lightweight air tanks with regulators in 88 or 114 cu. in. capacity and either 3000 or 4500 psi. , remote charging valve with coil hose and quick disconnect, back pack tank and ammo carrier, custom cases etc.











