

PCP Pistols

Specs Table .22 + .25cal

JungleShooter | May23 | Airgunner@zohoomail.com

Sources of Information, Suggestions, and Comments

▲ = Negativ detail, or warning

Notes:

¹ Review by: <https://www.airgundepot.com/ataman-ap16.html>

² 220bar printed on the cylinder (≠ 250bar printed on the box)

³ Email from the engineer, Alfonso Garcia Gonzalez, 11May23, Mechainnova@gmail.com: "It is capable to generate 24FPE, but its point of maximum efficiency is at 18FPE, for 30 shots."

⁴ Tom Gaylord test: <https://www.pyramydair.com/blog/2020/08/ataman-ap16-standard-air-pistol-part-2>

⁵ PyramydAir test: <https://www.youtube.com/watch?v=xqrteWfqkAM>

⁶ <https://krazcool.com> [saved webpage with preliminary specs, May23; for shot string data cf. at the end of these notes]

With an estimated shotcount of 19 shots, from 300 to 150 bar, the MV ranged from 718–741–709fps (32fps extreme spread), producing an ME from 38.0 to 41.5FPE, with a 33.95gr JSB dome.

With an estimated shotcount of 25 shots, from **350** to 150 bar, the MV ranged from 709–741–709fps (32fps extreme spread), producing an ME from 38.0 to 41.5FPE, with a 33.95gr JSB dome.

• If a wider muzzle velocity variation is acceptable, the "usable shotcount" goes up:

With an estimated shotcount of 24 shots, from 300 to 120 bar, the MV ranged from 718–741–656fps (**62**fps extreme spread), producing an ME from 32.5 to 41.5FPE, with a 33.95gr JSB dome.

With an estimated shotcount of 30 shots, from **350** to 120 bar, the MV ranged from 709–741–656fps (**62**fps extreme spread), producing an ME from 32.5 to 41.5FPE, with a 33.95gr JSB dome.

Comment: The first shotstring of 19 "usable shots" would results in a max. variation of the POI @25y = 0.19" = 0.5cm. That is very acceptable. | At 50y, the POI variation = 0.9" = 2.3cm. That shows the weakness of an unregulated gun, the cost of getting a very powerful gun with a stubble barrel.

⁷ Get a larger airtube by replacing the OEM airtube with an airtube for the HW100 or HW110 (make sure to get the correct length, cf. overview of sizes in the link):

<https://hw100tuning.co.uk/shop/ols/products/titanium-tube-for-hw110-rifle/v/RFL-TTN-TB-110TI-STN-CRB>

<https://www.airgunnation.com/threads/hw44-with-a-hw100-carbine-air-cylinder-it-works.1213535>

⁸ Replacement airtube, made from titanium, by several aftermarket brands, e.g.: The Rat Works = 7.1oz vs. 10.3oz OEM:

<https://www.airgunnation.com/threads/hw44-with-a-hw100-carbine-air-cylinder-it-works.1213535>

<https://www.airgunnation.com/threads/hw100-replacement-air-cylinder.930269> |

<https://hardairmagazine.com/ham-columns/upgrading-a-weihrauch-hw100-air-cylinder>

<https://hw100tuning.co.uk/shop/ols/products/titanium-tube-for-hw110-rifle/v/RFL-TTN-TB-110TI-STN-CRB>

⁹ Review by: <https://hardairmagazine.com/reviews/weihrauch-hw44-air-pistol-test-review-22-caliber>

¹⁰ Data sheet from the manufacturer: <https://www.weihrauch-sport.de/air-pistols/hw-44?lang=en>

¹¹ <https://krazcool.com> [saved webpage with preliminary specs, May23]

<https://www.hubenaireguns.shop/products/huben-pistol-gk1>

<https://www.newenglandairguns.com/huben-gk1-pistol-pre-order-deposit.html>

<https://www.airgunnation.com/threads/gk1-huben-pistol-teaser-vid.1286359>

<https://www.gatewaytoairguns.org/GTA/index.php?topic=207219.0>

¹² <https://www.weihrach-sport.de/wp-content/uploads/2019/02/Airgun-World-HW-44-Ausgabe-Feb.-2019.pdf>

¹³ <https://airghandi.de/en/weihrach-hw44-my-test-and-review>

¹⁴ Threads on airgun forums about the Tequila gun, mainly during the design and pre-production phase, with the engineer frequently posting and responding:

<https://www.airgunnation.com/threads/tequila-pcp-airgun.572081>

<https://www.airgunnation.com/threads/tequila-gun-pcp.1002782>

¹⁵ <https://www.airgunnation.com/threads/tequila-gun-pcp.1002782/post-1491936>

The shotstring (from Feb. 2023, reported by the engineer) shows 35 shots, from 324 to 145bar (4700 to 2100psi), the MV ranging from 722fps to 742fps (20fps extreme spread), producing a ME from 17.4 to 18.3FPE, with a 15gr pellet.

¹⁶ How to order: \$1000 plus taxes and shipping. | Email to the engineer, Alfonso Garcia Gonzalez, Mechainnova@gmail.com

<https://www.airgunnation.com/threads/tequila-gun-pcp.1002782/post-1491335>

¹⁷ http://www.evanix.com/bbs/board.php?bo_table=SA&wr_id=6

Second production run: https://www.youtube.com/watch?v=m7Ao8gzw_F4

Gauge is not on the end of the airtube but on the side. The fillport is not sticking out anymore, but is not at the end of the air tube. These are swappable.

<https://www.youtube.com/watch?v=-BSUA5sRTMU>

Prototype Preview: <https://www.youtube.com/watch?v=Qo8SZYDoG1Q>

¹⁸ Prototype Preview: <https://youtu.be/uCIBkfBC-0g?t=245>

In the verbally reported shotstring of 7 shots, the MV ranged from 574fps to 590fps (16fps extreme spread, SD 5), producing a ME from 13.3 to 14.0FPE, with a 18.13gr JSB dome.

- If a wider muzzle velocity variation is acceptable, the “usable shotcount” goes up:

In the verbally reported shotstring of 14 shots, from 250 to 150bar, the MV ranged from 540fps to 590fps (50fps extreme spread, SD 19), producing a ME from 11.7 to 14.0FPE, with a 18.13gr JSB dome.

¹⁹ Airgun WebTV, prototype shotstring .25cal: <https://youtu.be/-BSUA5sRTMU?t=531>

Note: Light weight pellets might not always cycle well.

The shotstring shows 8 shots, the MV ranged from 587fps to 612fps (25fps extreme spread), producing a ME from 19.4 to 21.1FPE, with a 25.39gr JSB dome.

- If a wider muzzle velocity variation is acceptable, the “usable shotcount” goes up:

The shotstring shows 12 shots, the MV ranged from 561fps to 612fps (51fps extreme spread, SD 15), producing a ME from 17.8 to 21.1FPE, with a 25.39gr JSB dome.

²⁰ Airgun Pro Shop, shotstring .25cal: <https://airgunproshop.com/shop/evanix-viper-pistol-25-caliber-black>

Shot 1 through 18: 612 | 614 | 608 | 604 | 595 | 585 | 586 | 571 | 561 | 558 | 553 | 549 | 537 | 529 | 523 | 502 | 507 | 501

The shotstring shows 7 shots, the MV ranged from 586fps to 612fps (26fps extreme spread), producing a ME from 19.4 to 21.1FPE, if this was done with a 25.39gr JSB dome.

- If a wider muzzle velocity variation is acceptable, the “usable shotcount” goes up:

The shotstring shows 12 shots, the MV ranged from 549fps to 612fps (63fps extreme spread, SD 15), producing a ME from 17.0 to 21.1FPE, if this was done with a 25.39gr JSB dome.

²¹ <https://www.youtube.com/watch?v=LHvaofzjSt0>

Huben GK1: Shot string reported by Jacky Huben, for .25cal, JSB Dome 33.95gr, for 30 shots total:

Source: <https://krazcool.com>

bar:	fps:	FPE:
350:	709	37.9
300:	718	38.9
250:	741	41.5
200:	722	39.4
150:	709	37.9
120:	656	32.5

.22cal (.25cal)	Price \$	Quality	OAL	Barrel	Tank Vol- ume	Tank Pressure	Power: ME	Shot Count	Adjusta- bilities	Regu- lator?	Silencer Thread 1/2" x 20?	Maga- zine?	Ple- num Size	Cock- ing Lft or Rgt?	Safety?	Weight	Scope Rail	Iron Sights? Adjust- able?	Accesso- ries, Calibers
Huben GK1¹¹ •Semi-automatic •Hammerless =very efficient, very high power	1400	High quality Hongkong	12.8" = 32.5cm	8.3" = 21.0cm	85cc	5000psi = 350bar	4FPE to 33FPE max. Example: 23FPE with 16gr at 804fps for 45 shots	45⁶ @ 23FPE w/ 18gr, w/ 805fps, 300bar to 100bar ▲Probably with a large MV variation.	Power wheel ✓ REG: – Trigger: ?	NO REG BUT ham- mer- less	Some thread- ed, Some not	Semi- auto- matic! 19-shot NON-remov- able	None	Semi- auto- matic	Manual Reach- able(?)	2.65lbs = 1.20kg	Dove- tail	✓ Adjust- able	.177, .22, .25
.25cal:	975						4FPE to 38FPE⁶ w/34gr, w/ 720fps	18⁶ @ 38FPE w/34gr, w/ 720fps, from 300 to 150bar This shot count allows for only small variations in MV.		Note 6: From 350– 150bar w/ 22fps MV variation		17-shot							
Evanix Viper¹⁷ •Semi-automatic •Does not cycle slugs ²¹	975	South Korea	11.1" = 28.2cm	6.3" = 16cm	???	3600psi = 250bar	Pre-production model: ¹⁸ • 14FPE for 7 shots w/ 18gr, w/582fps • 13FPE for 14 shots with extreme spread of 50fps	REG: – HST: ✓ Trigger: ?		NO REG	1/2"x20 NO shroud Silencer includ- ed	7-shot	None	Semi- auto- matic: Rack the slide	Manual Reach- able	???	Pica- tinny Wig- gles! ▲ Splits when cock- ing!▲	✓ Adjust- table	.177, .22, .25 Stock
.25cal:	975						Note 19, Note 20 similar: • 20FPE for 8 shots w/ 25gr, w/600fps • 19FPE for 12 shots with extreme spread of 51fps					6-shot							
Tequila¹⁶	1000 + Tax	Indepen- dent engineer in Mexico	12.0" = 30.5cm	7.0" = 17.8cm	64cc	4500psi = 310bar	18FPE^{3, 15} w/ 15gr, w/ 730fps, for 35 shots 24FPE max.	35¹⁵ @18FPE w/15gr, w/730fps, from 324 to 145bar	REG: ? HST: ✓ Trigger: ✓	✓	✓	10-shot	16cc	Side lever, avail. L or R	Manual Reach- able	2.07lbs = 940g	Pica- tinny	✓ Adjust- able	.22 More in prep.
Ataman AP16 Compact	1050	Russia	12.0" = 30.5cm	6.7" LW = 17.0cm	60cc	4350psi = 300bar	14FPE⁵ for 22 shots w/18gr 12FPE ¹	22⁵ @14FPE "15"	REG: ? HST: ? Trigger: ✓	✓	Req. adap- ter = \$40	7-shot	?	Side lever, L	Manual Reach- able	1.75lbs = 0.79kg	Dove- tail	✓ Adjust- able	.177, .22 Stock, Airtubes, Barrels
Ataman AP16	1050		14.4" = 36.6cm	9.0" = 22.8cm	108cc		15FPE⁴ w/ 18gr 18FPE ¹	46⁴ @15FPE "20"	2.2lbs = 0.98kg										
Weihrauch HW44¹¹	1050	Germany	13.3" = 33.7cm¹² w/ Silencer: 19" = 48.3cm ¹²	9.7" = 24.7cm^{10, 12}	50cc ¹³ Option ⁷	2900psi = 200bar	16FPE⁹	15⁹ @16FPE, 7 ≠ "20" ¹⁰	REG: ? HST: ? Trigger: ?	✓	Un- likely	10-shot	?	Side lever, L, Diffi- cult to switch	Manual Reach- able	2.87lbs = 1.30kg without Silencer ¹²	Pica- tinny	✓ Adjust- able	.177, .20, .22 OEM Silencer is highly effective ⁹

.22cal (.25cal)	Price \$	Quality	OAL	Barrel	Tank Vol- ume	Tank Pressure	Power: ME	Shot Count	Adjusta- bilies	Regu- lator?	Silencer Thread 1½" x 20?	Maga- zine?	Ple- num Size	Cock- ing Lft or Rgt?	Safety?	Weight	Scope Rail	Iron Sights? Adjust- able?	Accesso- ries, Calibers
Artemis PP700SA Artemis = SPA = Zasdar = Onix = Air Max	250	China	15.8" = 40.0cm	8.3" = 21.0cm China!	65cc	3200psi 220bar ²	18FPE max.	30 @18FPE	REG: ✓ OEM: ✓ REG: ✓ Huma: take airtube apart ✓ HST: take handle off ✓ Trigger: ✓	✓ OEM often creeps, Huma =\$110	Req. adap- ter =\$40	Single shot	?	"Revol- ver ham- mer"	Cock- ing of "revol- ver ham- mer"	1.9lbs = 0.90kg	Dove- tail	✓ NOT adjust- able	.177, .22 Collap- sible stock, wobbly
.22cal (.25cal)	Price \$	Quality	OAL	Barrel	Tank Vol- ume	Tank Pressure	Power: ME	Shot Count	Adjusta- bilies	Regu- lator?	Silencer Thread 1½" x 20?	Maga- zine?	Ple- num Size	Cock- ing Lft or Rgt?	Safety?	Weight	Scope Rail	Iron Sights? Adjust- able?	Accesso- ries, Calibers