



ASSO SPEARGUNS

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"ASSO" SPEARGUNS

Powerful and easy to operate pneumatic spearguns. Anatomic grip. Trigger and safety in bright yellow for good visibility in muddy water. Reduced bore muzzle for easier loading. From ASSO 50 style available also with power reducer.

Please read the following instructions completely and thoroughly before using to insure proper and safe operation. Please feel free to contact your dealer if you have any question or need help in preparing the gun for use.

All repairs and maintenance must be made only by authorized SEAC dealers.

WORKING PRINCIPLE

The pneumatic spearguns utilize the energy from compressed air stored in the barrel. When the shaft is pushed into the barrel, it compresses the air and builds up pressure.

The thrust power increase proportionally with the internal pressure of the gun; this pressure can be increased by using the hand pump or decreased by releasing air from the valve. The ASSO is factory assembled with an internal air pressure of 20 bars (285 PSI).

Warning : in case of re-loading do not ever exceed the 20 BAR. In case another pressure is used, it may generate explosions and very serious accidents.

To load it, you should lean the handgrip against your thigh or foot, according to the length, after inserting the tang of the shaft in the muzzle; drive the shaft to the end towards the handgrip until the piston is hooked to the click tooth (when the hook has taken place, one can hear the "click" of the tooth itself).

Now the gun is ready for firing: slide the safety to the fire position and pull the trigger to shoot.

MODELS WITH POWER REDUCER

In the spearguns with power reducer it is possible to have two firings: one at maximum and one at minimum power; furthermore, when adjusted

at minimum power (completely forward) the loading operation is easier. **To unload the gun for ordinary maintenance it is necessary to have the adjusting rod at the maximum power (completely backwards); otherwise some air would be left inside the air tank.**

IMPORTANT WARNINGS

Please observe the following precautions for your personal safety as well as the safety of others:

- Never load any speargun on land or on boat. Do not fire in the air. Before firing, be sure that the shaft is in the right position: if the shaft accidentally comes out (for instance if the tang of the shaft is worn and does not hook the piston properly), do not fire because the piston can be damaged; in this case, re-insert the shaft and fire normally. At the end of each dive, fire the gun in water to release the shaft before getting out of the water.

-Never point the gun at another person even if in "safe" position.

-During loading, hold the muzzle firmly to avoid slipping of the gun or shaft.

-Do not store the gun in the sun or in a hot place.

-Absolutely avoid to insert the rod if the muzzle is covered with sand; in this case it is possible to seriously damage barrel and piston.

-After use, rinse speargun with large amount of fresh water.

-The hand pump should only be used periodically when it is obvious that the pressure in the gun is low. Control through the side holes that the piston is in the muzzle and not hooked by the trigger. Be sure that the threads of pump and valve are clean and in good condition, and that the pump's o-ring is in its seat. Consult the following table to find your gun model and the number of strokes needed to charge the gun to the desired pressure. Be careful: these numbers are for a gun that has been completely

Modello Type	Lunghezza Length	Quantità olio Oil Quantity	Bar Bars	Numero Pompate N. of Pump Strokes
ASSO 30 S/R	cm 30	cc 10	20	30
			15	20
			10	12
ASSO 40 S/R	cm 40	cc 15	20	105
			15	80
			10	55
ASSO 50 S/R C/R	cm 55,5	cc 20	20	205
			15	155
			10	105
ASSO 65 S/R C/R	cm 69	cc 25	20	255
			15	155
			10	105
ASSO 75 S/R C/R	cm 79	cc 30	20	275
			15	210
			10	155
ASSO 90 C/R	cm 90	cc 35	20	300
			15	250
			10	200
ASSO 115 C/R	cm 115	cc 35	20	470
			15	375
			10	300

depressurized.

-During airfreight, the air in the gun must be completely released.

ATTENTION! We strongly recommend that all repairs and maintenance be made by an authorized SEAC dealer, including replacement of the lubricating oil and the piston.

In case of routine maintenance (oil or piston replacement, ecc.), the air in the gun must be released in the maximum power position. After leaving the speargun for a few minutes in vertical position with the muzzle on the lower side, depressurize the gun; first remove the plastic cap on the valve, press the ball of the valve holding the gun vertically and away from eyes in order to avoid sprays of nebulized oil.

If you want to adjust the firing sensibility, read the instructions of this manual.

By adjusting the mechanism, the shaft must not be inserted because it may take off accidentally.

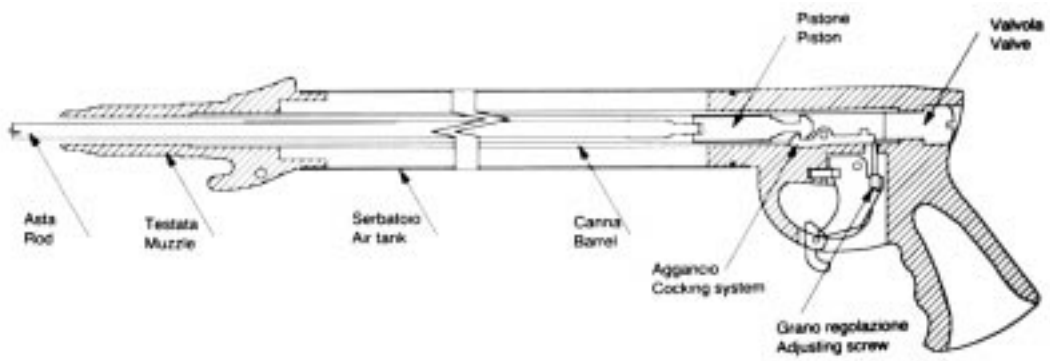
HOW TO ADJUST THE TRIGGER SENSIBILITY

The ASSO spearguns are assembled with a standard setting of the trigger sensibility, but it may be modified for the natural bedding of the mechanism.

For this reason it is important to verify the trigger sensibility before using the speargun; if it is necessary to modify this adjustment, read completely the following instructions: be careful! an excessive sensibility can cause the releasing of the shaft with a light pressure on the trigger and could cause serious personal injury!

Operate with pressurized but unloaded gun **without shaft** (piston in the muzzle and rod disconnected). Turning over the handle you can find a screw under the trigger: using a screwdriver you can increase sensibility screwing clockwise, or decrease screwing counterclockwise.

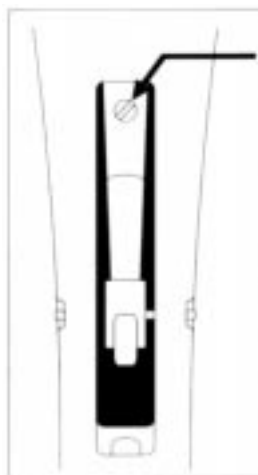
To load Asso Spearguns



How to adjust the trigger sensibility



You can increase sensibility screwing clockwise, or decrease screwing counterclockwise.



Screw under the trigger

1	Head nut	01600
2	Rubber shock absorber piston	02600
3	Shock absorber piston	03600/B
4	Gun head	04600
5	Air tank O-Ring	05600
6	Nose/barrel O-Ring	06600
7	O-Ring locking washer	07600
8	Seeger diam.18	08600
9	Nose	09600
10	Air tank for ASSO 30	10600
10	Air tank for ASSO 40	10601
10	Air tank for ASSO 50	10602
10	Air tank for ASSO 65	10603
10	Air tank for ASSO 75	10604
10	Air tank for ASSO 90	10605
10	Air tank for ASSO 115	10606
11	Barrel for ASSO 30	11600
11	Barrel for ASSO 40	11601
11	Barrel for ASSO 50	11602
11	Barrel for ASSO 65	11603
11	Barrel for ASSO 75	11604
11	Barrel for ASSO 90	11605
11	Barrel for ASSO 115	11606
12	Small block power control locking ring	12602
13	Small block/barrel O-Ring	13602
14	Charging valve spring	14600
15	Charging valve spring ball	15600
16	2,5 X 2 O-Ring	16600
17	O-Ring locking washer	17602
18	Power control body	18602
19	Handgrip without power control	19600
19	Handgrip with power control	19602
20	Charging valve O-Ring locking washer	20600
20b	Seeger charging valve	20600/B
21	Charging valve body	21600
22	Charging valve cap	22600
23	Power control shaft O-Ring	23602
24	Power control shaft O-Ring bush	24602
25	Power control shaft spring	25602
26	Power control shaft	26602
27	Power control shaft O-Ring locking washer	27602
28	Slider with ball	28602
29	Line releaser pin	29600
30	Line releaser	30600
31	Click spring	31600
32	Small connection piston	32600
33	Small connection piston washer	33600
34	Adjusting trigger small screw	34600
35	Trigger	35600
36	Trigger and click pin	36600
37	Click	37600
38	Safety	38600
39	Piston cap	39600
40	Piston O-Ring	40600
41	Piston body	41600
42	Piston washer	42600
A	Piston washer unit	47600/B
B	Power control body unit	48602
C	Chargin valve unit	49600
D	Piston unit	54600/B
E	Power control shaft unit	50602
F	Trigger unit	53600
G	Handgrip unit (without power control)	51600
E+G	Handgrip unit (with power control)	52602
	Complete O - Ring set	45600
	Head unit	46600
	Pump unit	55600
	Air spearguns oil c.c.110	60600

