



Scuba Regulator Manual

First Stages

Mk 1

Mk 2

Mk 5

Mk 6

Mk 6/S

Mk 7

Second Stages

Commander

Command Air

Command Air Turbo

Explorer II

Octopus

Hookah

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Mk 1 and Mk 2 First Stages

Mk 1 and Mk 2 are the first Sea Hornet models to enable adjustment of the intermediate pressure externally.

The Mark 1 features a swivel on the low pressure end with 4 x low pressure ports (Thread 3/8" – 24 UNF) and 2 x high pressure ports (Thread 7/16" – 20 UNF).

The 1st Stage is a Balanced Flow Through Piston design with a Ultra Hi-Density Polyethylene high pressure seat, conical cup filter and utilising neoprene o'rings throughout.

The Mk 2 features a non-swivel head with 6 L.P. ports (Thread 3/8"-24 UNF).

The components are manufactured from the following materials:

Naval Bronze, Brass and Stainless Steel.

The intermediate pressure (line pressure) is adjusted externally using a 1/4" allen key.



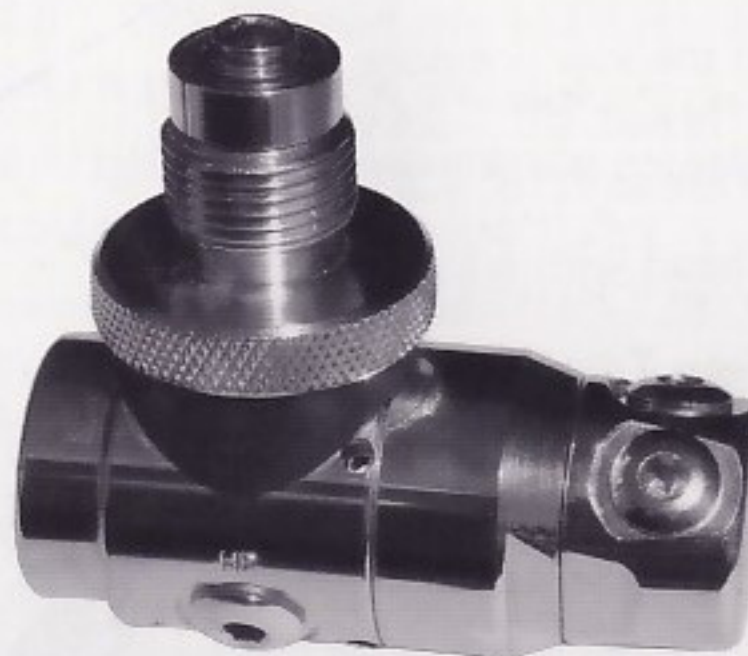
Mk 1 First Stage

The 1st Stage can be provided with an optional DIN fitting for coupling to DIN valves.

Adjustable range:
800 – 1150 kPa

Maximum air flow
(1800 litres/min).

The Gold plated Mk 1 is dedicated for dive instructors with their name and qualification embossed on the body of the first stage.



Mk 1 DIN First Stage



Mk 2 First Stage

	Type	Head	H.P. Ports	L.P. Ports	Adjustable Bar	CE Approval	Filter	Weight with Yoke grams	Weight with DIN grams	Max. flow in one port l/min
Mk 1	Piston	Swivel	2	4	External 9-11	Yes	Conical	915	745	1800
Mk 2	Piston	Non Swivel	2	6	External 9-11	—	Conical	870	700	1800

Mk 5 and Mk 7 First Stages

The Mk 5 and Mk 7 use the balanced flow through piston design. They have Ultra Hi-Density Polyethylene high-pressure seat, flat bronze filter and utilise neoprene o'rings throughout.

The Mk 5 features a swivel on the low pressure end with 4 x low pressure ports (Thread 3/8" – 24 UNF) and 2 x high pressure ports (Thread 7/16" – 20 UNF).

Mark 7 features a non-swivel head with 6 L.P. ports (Thread 3/8"-24 UNF).

The components are manufactured from the following materials: Naval Bronze, Brass and Stainless Steel.



Mk 5 First Stage

	Type	Head	H.P. Ports	L.P. Ports	Line Pressure Bar	CE Approval	Filter	Weight with Yoke grams	Weight with DIN grams	Max. flow in one port l/min
Mk 5	Piston	Swivel	2	4	10	—	Flat	850	680	1700
Mk 7	Piston	Non Swivel	2	6	10	—	Flat	800	630	1700

Mk 6 and Mk 6/S First Stages

Mark 6 is a Balanced Diaphragm First Stage to enable adjustment of the intermediate pressure externally.

The Mark 6 has 2 high pressure ports (Thread 7/16" – 20 UNF) and a 4 low pressure ports (Thread 3/8" – 24 UNF). One L.P. port marked R is with Venturi Assistance and is specially designed for primary regulator (2nd Stage).

Mark 6/S is a Balanced Diaphragm First Stage which is completely environmentally sealed. This design is suitable for cold water diving.

The Mark 6/S has 2 high pressure ports (Thread 7/16" – 20 UNF) and 4 low pressure ports (Thread 3/8" – 24 UNF). One L.P. port marked R is with Venturi Assistance and is specially designed for primary regulator (2nd Stage).

The intermediate pressure (line pressure) is adjusted internally using 1/4" allen key. This should be done by a Sea Hornet qualified technician only.

The main components are manufactured from the following materials:

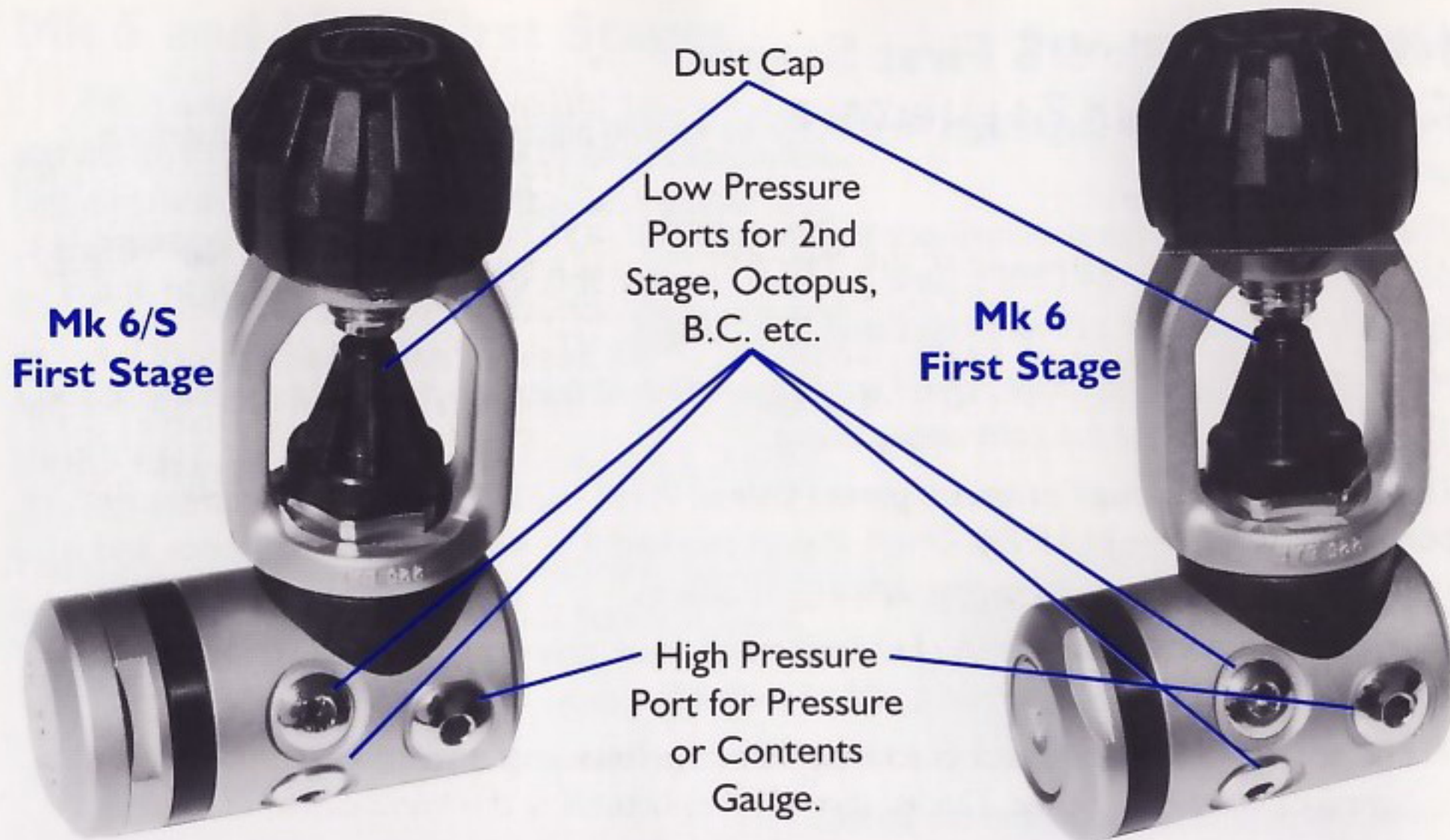
Naval Bronze, Brass and Stainless Steel.

The First Stage can be provided with an optional DIN fitting for coupling to DIN valves.

Adjustable range: 0 – 1200 kPa

Max. air flow at R port: 1850 litres/min)

Mk 6/S CEN 250 approval number CE 0515 for cold water use.



	Type	Head	H.P. Ports	L.P. Ports	Line Pressure Bar	CE Approval	Filter	Weight with Yoke grams	Weight with DIN grams	Max. flow in one port l/min
Mk 6	Diaphragm	Non Swivel	2	4	External 0-12	Yes	Conical	935	765	1850
Mk 6/S	Diaphragm	Non Swivel	2	4	Internal 0-12	Yes Cold Water	Conical	1007	837	1850

Commander and Command Air Regulators

1. Sensitivity Control

The knob on the left hand side of the regulator controls sensitivity. Turning this knob will increase or decrease breathing resistance. Minimum resistance of 125Pa (0.5" of water gauge) is achieved by turning the knob anti-clockwise until it stops. This setting is suitable for a diver in a face-up attitude.

Maximum resistance of 500Pa (2" of water gauge) is achieved by turning the knob clockwise until it stops.

The sensitivity of the regulator is so high that if the diver changes to a face-down attitude, a slight free-flow may occur. This is normal. Simply turning the knob clockwise will increase the opening effort to the required level and prevent free-flowing.

2. Turbo Boost Control

The turbo boost control is the knob on the right hand side of the regulator at the hose fitting with a scale reading 0 to 6.



Commander Regulator

Turning this knob will vary the assistance of the venturi effect. This allows the diver to increase air flow to the maximum without increase in inhalation effort.

Maximum boost is obtained when the knob is turned to position number 6. This position is recommended for deep diving or situations of heavy demand when maximum airflow is required.

In a situation where there is no need for maximum airflow simply turn the Turbo Boost Control Knob to any position other than Number 6 and the effect of the Venturi will reduce accordingly.

If the regulator is used as an octopus, the turbo boost knob should be turned to the lower-numbered positions (eg 0–1). This prevents free-flowing when entering the water.

	Turbo Boost adjustment	Sensitivity adjustment	Line pressure Bar	Maximum Air Flow l/min	Weight grams	Config	CE Approval
Commander	Yes	Yes	10	1400	230	RH	Yes
Command Air	Yes	Yes	10	1000	230	RH or LH	—

Command Air Turbo

The Command Air Turbo regulator is a simpler version of the Command Air regulator, but still has the same high performance.

The Command Air Turbo regulator is the most popular in diving schools or as the alternative source of air – the octopus.

The turbo boost control is the knob on the right hand side of the regulator at the hose fitting with a scale reading 0 to 6.

Turning this knob will vary the assistance of the venturi effect. This allows the diver to increase air flow to the maximum without increase in inhalation effort.

Maximum boost is obtained when the knob is turned to position number 6. This position is recommended for deep diving or situations of heavy demand when maximum airflow is required.

In a situation where there is no need for maximum airflow simply turn the Turbo Boost Control knob to any position other than Number 6 and the effect of the Venturi will reduce accordingly.



**Command Air Turbo
Regulator**

If the regulator is used as an Octopus, the turbo boost knob should be turned to the lower-number positions (eg.0-1). This prevents free-flowing when entering the water.

L.P. Hoses

Length	Weight grams	Inside diameter mm	1st Stage Connecting thread
26"	145	6.3	3/8-24 UNF
36"	185	6.3	3/8-24 UNF
48"	235	6.3	3/8-24 UNF

	Turbo Boost adjustment	Sensitivity adjustment	Line pressure Bar	Maximum Air Flow l/min	Weight grams	Config	CE Approval
Turbo	Yes	—	10	900	210	RH	—

Explorer II and Octopus Regulator

Explorer II and Octopus are classical downstream demand valve regulators with very high reliability.

Their simple design has been repeated in many regulators around the world for the last 30 years.

The latest version of this system is the basis of the Explorer II and Octopus regulator. They are made of space-age materials like unbreakable Lexan and unperishable silicon rubbers.



**Explorer II
Regulator**

**Explorer II
Octopus**



	Line pressure	Non Return valve	Maximum Air Flow litres/min	Weight grams	Config
Explorer II	10	—	1050	210	RH
Explorer II Ocy	10	—	1020	210	RH

Hookah Regulator

The Hookah regulator implement the classical down stream demand valve design but has a simple and unique non-return valve incorporated directly into the L.P. valve.

Regulator is designed for surface supply of air, which has substantially lower pressure than standard second stage. To maintain the smooth and adequate performance a special high flow orifice is used.



Hookah

	Line pressure bar	Non Return valve	Maximum Air Flow litres/min	Weight grams	Config
Hookah	7	Yes	780	210	RH

L.P. Hoses

Length	Weight grams	Inside diameter mm	1st Stage Connecting thread
26"	145	6.3	3/8-24 UNF
36"	185	6.3	3/8-24 UNF
48"	235	6.3	3/8-24 UNF

Maintenance

1. Do not expose the regulator to direct heat or sunlight for prolonged periods of time.
2. Store in a cool dry place with good air circulation.
3. Store with the sensitivity knob turned to the full anticlockwise position and the turbo boost knob to position number 6.
4. Do not store with the hoses bent.
5. Do not place heavy weights on your regulator or hoses.
6. Do not attempt to disassemble or internally adjust your regulator. Repairs and adjustments must be made only by an authorised Sea Hornet service centre.
7. Arrange a service at least once a year (more often with heavy or professional use) with your Sea Hornet authorised service centre. This protects your guarantee.



Regulator Guarantee Registration Card

Date / /

Product 1

Serial 1

Product 2

Serial 2

To validate your guarantee, this registration card must be completed and returned within 7 days.
See page 18 for guarantee details.

Name of Purchaser (Mr/Mrs/Miss/Ms)

Address

Country Post Code Phone

Certification Number Certification Agency Age

Name of Store Purchased From

STAMP

Signature:

☐ School ☐ Commercial ☐ Sporting

Please let us know why you chose your
Sea Hornet product:

.....

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Cut Here



Cut Here

