

## BALANCED ADJUSTABLE SECOND STAGE

### TIME TESTED TOUGH

The Scubapro Adjustable Second Stage was first introduced in 1965 and has a remarkable track record of dependability and versatility. The adjustable feature enables the diver to precisely set the inhalation resistance of the regulator while underwater. In 1985, the adjustable downstream valve was replaced with a totally new pneumatically balanced mechanism. The adjustable feature was retained and remarkably the entire assembly retrofits the existing chrome plated brass case. The new Balanced Adjustable Second Stage is a unique blending of traditional styling and high tech air delivery.

### PNEUMATICALLY BALANCED ADJUSTABLE DEMAND VALVE

The new valve system incorporates a totally Air Balanced poppet. The pneumatic balancing is accomplished by making a small hole through the poppet and stem which allows air to flow to a small closed chamber on the opposite end of the poppet. This trapped air pushes the poppet back toward the downstream force and cancels its effect. A lighter spring can now be engineered for overall response smoothness.

The actual inhalation resistance can be adjusted in this second stage by turning the external splined knob. This adjustment increases or decreases the spring tension which changes the breathing resistance accordingly. Harder breathing may be desirable in surf or heavy currents, while working in a head down position, or while entering or exiting the water. The Scubapro Balanced Adjustable regulator also makes an excellent back up second stage. The adjustable feature allows the valve to be stiffened to reduce the accidental loss of air caused by normal bumping and handling. U.S. patents 4,508,118, 4,159,717.

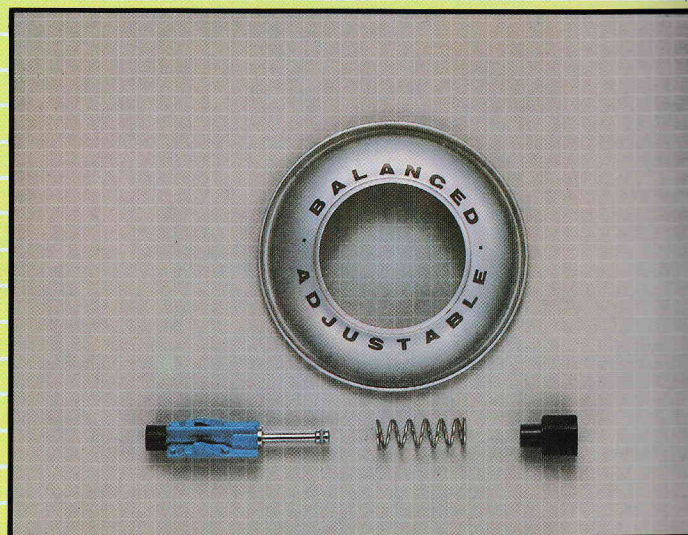
### UPDATE...CONVERSION KIT

There is no "planned obsolescence" at Scubapro. Whenever possible our engineers design modifications and improvements so they will upgrade the original design. In this case, the new Balanced Adjustable mechanism will retrofit all older Adjustable Second Stage cases. Even the oldest models, back to the original 1965 cases, will accept the new parts. This conversion kit should only be installed by an authorized Scubapro Technician. Consult your Scubapro dealer for complete details.

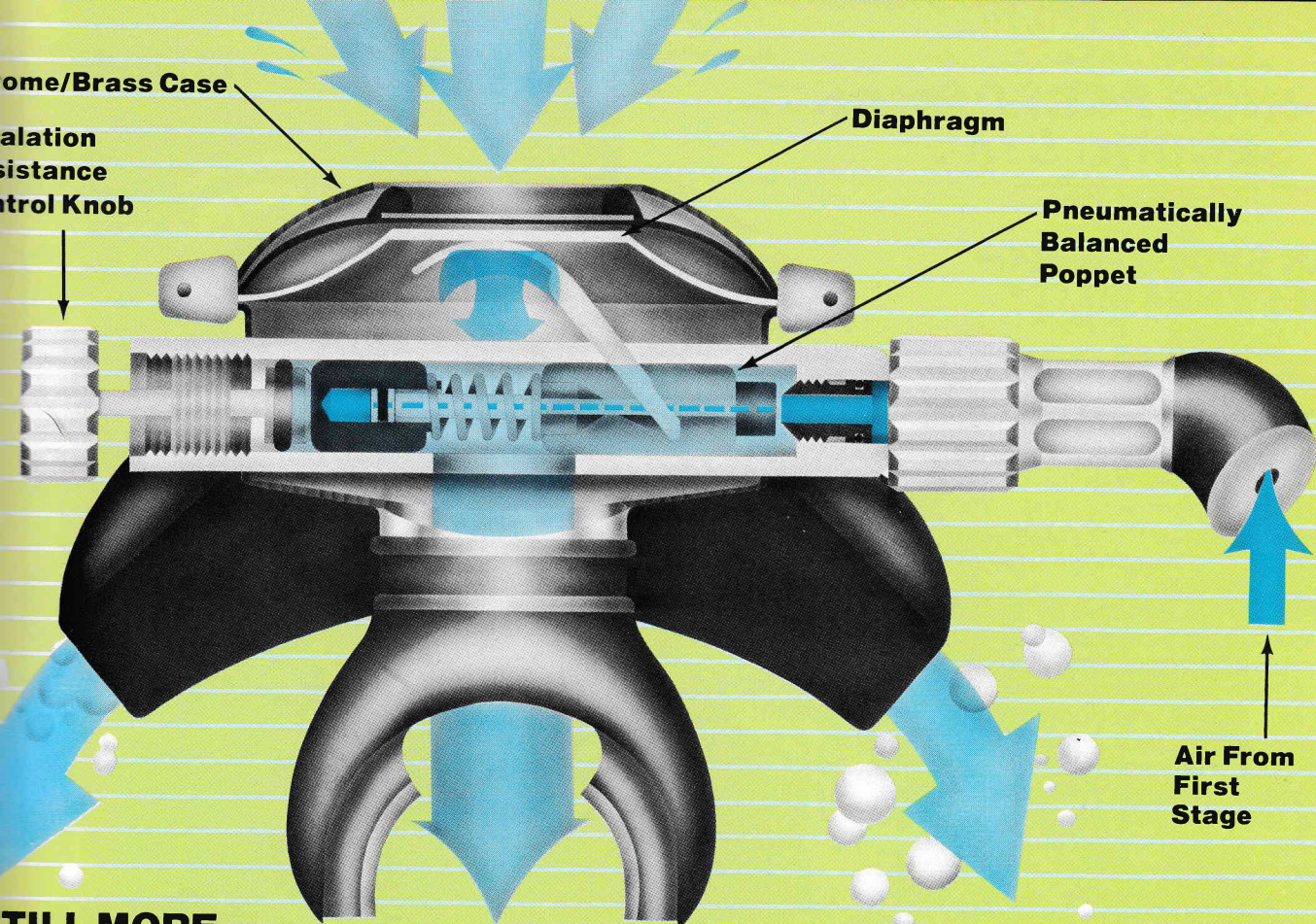
### CONVERSION KIT FOR BALANCING ADJUSTABLE SECOND STAGE REGULATORS

Provides necessary parts for balancing the Demand Valve on all SCUBAPRO adjustable second stage regulators. Allows high performance breathing virtually unaffected by depth or tank pressure. Kit No. 11-109-020 contains: poppet assembly, poppet covering, stem, new spring, and balanced pneumatic chamber.

Conversion Kit      No. 11-109-020      \$30.00







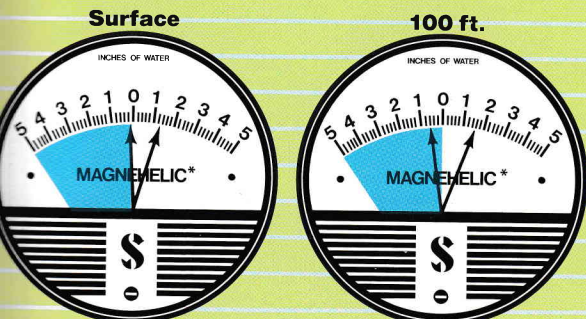
## TILL MORE...

The Balanced Adjustable Second Stage incorporates all of the following high tech features considered to be standard on all Scubapro Second Stages.

**Orthodontically Contoured Mouthpiece**—designed to conform perfectly to teeth and gums and provide maximum comfort and regulator stability.

**Silicone Sensitivity**—the diaphragm and exhaust valve are made of only the finest, highly sensitive, silicone material. This ultra flex elastomer decreases both the inhalation and exhalation effort of the regulators, as well as providing superior strength and life.

**Limited Lifetime Warranty**—All Scubapro second stages are covered by a limited one-owner lifetime warranty. This warranty covers "all parts," except the mouthpiece and hose, against defective material and workmanship to the original owner provided that the unit receives reasonable maintenance including yearly servicing. Warranty service can be obtained only through Scubapro authorized dealers, or any Scubapro factory in the United States, Europe, or Asia. Complete warranty details including all limitations and exclusions are packaged with all Scubapro regulators.



Adjustable 2nd Stage

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Minimum cracking efforts measured in inches of water. The blue side indicates exhalation. White side indicates inhalation.

## BALANCED ADJUSTABLE SECOND STAGE SPECIFICATIONS

### Materials:

Case — Brass, Chrome-plated

Diaphragm — Silicone

Exhaust Valve — Silicone

Seat — Neoprene

Spring — Stainless Steel

Mouthpiece — Crystal Silicone, Contoured

### Demand Valve Design

Pneumatically Balanced, Adjustable	
Weight without hoses	12 ounces (340 grams)
Average Flow	32.5 SCFM (920 liters per minute)
Maximum Intermediate Pressure	200 psig
Average (Surface) Inhalation Resistance	1.2-2.0 inches of water (adjustable)
Average (Surface) Exhalation Resistance	0.6 inches of water
V.I.V.A. Effect	Moderate
Hose Length (Standard)	28 inches
Hose Length (Octopus)	32 inches
Warranty	Limited Lifetime

Balanced Adjustable Second Stage Regulator w/28" Hose, Blue Diaphragm, Crystal Silicone Mouthpiece and Black Exhaust Tee

No. 11-150-000

\$200.00

Balanced Adjustable Second Stage Octopus Regulator w/32" Hose, Orange Silicone Diaphragm and Mouthpiece and Orange Exhaust Tee

No. 11-152-000

\$200.00