

## FEATURES & FUNCTIONS

AT400 PRO

AT400 SPORT

A1

GYRO OCTO

A1 OCTO

AIR LINK

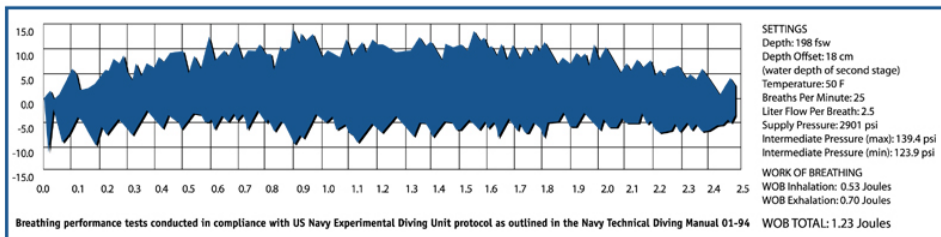
Valve Type	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND
Adjustment	KNOB/PRE-DIVE SWITCH	PRE-DIVE SWITCH	N/A	N/A	N/A	N/A
Balancing System	PNEUMATIC	N/A	N/A	N/A	N/A	N/A
Integrated Purge Button	YES	YES	YES	YES	YES	YES
Mouthpiece	ORTHODONTIC	ORTHODONTIC	ORTHODONTIC	ORTHODONTIC	STANDARD	ORTHODONTIC
Nitrox Compatibility	STANDARD TO 40%	STANDARD TO 40%	STANDARD TO 40%	STANDARD TO 40%	STANDARD TO 40%	STANDARD TO 40%
Ambidextrous	NO	NO	NO	YES	NO	NO
Integrated Swivel	NO	NO	NO	YES	NO	NO
Weight (without hose)	5.4 OUNCES	7 OUNCES	6 OUNCES	5.8 OUNCES	6 OUNCES	7.9 OUNCES
Minimum Cracking Effort	DIVER ADJUSTABLE	1.1 CIW	1.1 CIW	1.5 CIW	1.5 CIW	1.5 CIW*
Factory Set Inhalation Effort	0.0 - 2.5 CIW	1.2 - 1.4 CIW	1.2 - 1.5 CIW	1.5 - 2.0 CIW	1.5 - 2.0 CIW	1.6 - 2.2 CIW
Work of Breathing	.9	.96	1.23	2.17	1.76	2.86
First Stage	AT400 DVT	AT400 DVT	A1	N/A	N/A	N/A
Limited Lifetime Free Parts Replacement Program	YES	YES	YES	YES	YES	YES

## FIRST STAGE

AT400 DVT

A1

Valve Type	BALANCED DIAPHRAGM	UNBALANCED PISTON
Primary Material	MARINE BRASS	MARINE BRASS
Low Pressure Ports	4	4
High Pressure Ports	2	1
DVT (Dry Valve Technology)	YES	OPTIONAL
Nitrox Compatibility	STANDARD TO 40%	STANDARD TO 40%
DIN Fitting	OPTIONAL	OPTIONAL
Environmental Protection	YES	YES
Weight	29 OUNCES	26 OUNCES
Factory Set Intermediate Pressure Range	138-142 PSI	140-145 PSI
Pressure Drop	20.1 PSI	13 PSI
Limited Lifetime Free Parts Replacement Program	YES	YES



### WORK OF BREATHING

Did you know that it costs energy to breathe? The amount of energy your regulator requires to move each liter of air is called work of breathing (WOB). Lower work of breathing equals lower effort required to breathe and increased comfort and safety during a dive.

### How to Read Work of Breathing Charts

The computer-generated breathing machine chart presented above represents a regulator's performance per standards established by the U.S. Navy's Experimental Diving Unit. Tests are conducted at 198 feet with approximately 3000-psi supply pressure, 25 breaths per minute of 2.5 liters each.

(1) **Inhalation** - The chart shows one complete breath cycle, starting with inhalation on the left and continuing along the bottom to the right, staying mostly below 0.0; thus the inhalation work of breathing is reported in negative numbers.

(2) **Exhalation** - The exhalation effort begins on the right and runs across the top to the left. These are all positive numbers since

a diver (or the machine in this case) is blowing out (exhaling) rather than inhaling.

(3) **WOB** - The total area inside the loop formed by the two lines is what the computer analyzes to calculate the regulator's total work of breathing - the amount of energy the regulator requires to move each liter of air.