



SuperFlow Scuba Regulator Assembly

User Guide
Part #: 100-133

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*The Kirby Morgan SuperFlow First Stage Regulator and all three
SuperFlow Second Stage Regulators have been CE approved.*

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Definitions of Signal Words used in this Guide



CAUTION

This word indicates a potentially hazardous situation which, if not avoided, may result in a minor or moderate injury. It may also be used to alert against unsafe practices.



WARNING

This word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



DANGER

This word indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.

REMARKS: Operating or descriptive information which will help you make the best use of your regulator.

Product Changes

Following publication of this booklet, certain changes in standard equipment, options, prices and the like may have occurred which would not be included in these pages. Your Authorized KMDSI dealer is your best source for up-to-date information on any of these products. Kirby Morgan Dive Systems Inc. reserves the right to change product specifications at any time without incurring obligations.

In order to use this regulator assembly, it is essential to complete a training course and receive certification, issued by a recognized national scuba training organization, confirming your ability to dive.



CAUTION

By using this equipment the diver acknowledges that he has read and completely understands the instruction manual provided with it, and hereby agrees to hold harmless Kirby Morgan Dive Systems, inc. from any accident, malfunction, or other event arising from the misuse of the equipment, or from any lack of, or incomplete understanding of its operation and function.



CAUTION

This regulator assembly should be used only with breathing air meeting requirements of the EN132 Standard, Appendix A.



CAUTION

When the regulator is used in a European Union member country, it should be used only with equipment and accessories that are CE approved, according to EN250.



WARNING



This scuba regulator assembly has not been designed or tested for use with breathing gas mixtures containing greater than 40% oxygen.

Do not use this regulator assembly with breathing gases containing more than 40% oxygen. Use with gas mixtures containing in excess of 40% oxygen could lead to fires or explosions.



WARNING

In accordance with the EN250 Standard, the maximum approved depth for the use of this equipment is 40 meters (132 FSW) @ 62.5 RMV (heavy work load). Do not exceed this limit. The use of open circuit scuba at depths below 132 FSW poses extreme risks including out-of-air emergencies and decompression sickness, which can lead to serious personal injury or death.



WARNING



Never use solvents or aerosol sprays on or around the regulator assembly. Certain solvents and propulsion agents attack and damage rubber and certain plastics. This could lead to regulator failure. Drowning could result.

This user guide gives basic daily operational information for the Kirby Morgan SuperFlow Scuba Regulator assembly.

Before each use the regulator assembly should be carefully checked and submitted to the operational tests. Never dive with a regulator showing any signs of deterioration or a below normal performance.

The hoses fitted to the regulator assembly, and supplied by KMDSI meet the requirements of the EN250 standard concerning the connection of components. Only original Kirby Morgan hoses should be used as replacements.

- HP thread 7/16" - 20 UNF
- MP thread 3/8" - 24 UNF



CAUTION

Always allow pressure to build up slowly in the regulator by turning on the cylinder valve slowly.

Use only silicone grease on the rubber components. Never grease the parts of your regulator with a lubricant containing hydrocarbons, household oil, or motor oil.

Cold Water Diving

Before diving in cold water (water temperature below 10°C/50°F), the diver should be trained and have mastered the techniques of cold water diving, learning techniques and all precautions necessary to avoid freezing of the regulator. All of this is included in the training programs of organizations offering courses in diving in cold water or under ice. You should also use equipment intended for this purpose. This regulator is not CE approved for waters colder than 10°C /50 degrees F.

In order to reduce the risks of regulator freezing when diving in cold water (below 10°C), consider doing the following:

- 1) Protect your regulators from any water entering the first or second stages.
- 2) Protect your equipment from cold before the dive. Keep your regulator and all its accessories in a warm dry place.
- 3) Carry out all pre-dive checks of your equipment in a warm dry place if necessary, before even going to the dive site.
- 4) Avoid breathing through the regulator or pressing the purge button in very cold air before entering the water.
- 5) Check that the air used to fill your cylinder is dry. The water vapor contained in this air should have a condensation point below -54°C. Excess water vapor can freeze, causing a free flow, or blocking the air flow completely.

The Kirby Morgan SuperFlow Scuba Regulator Assembly described in this guide was inspected and certified by a testing institution in compliance with EC directive 89/686 of 21 December 1989. Testing procedures were in accordance with the same directive that sets forth the marketing conditions and key safety requirements for Personal Protection Equipment (PPE Category III) regarding product quality assurance and according to the European Standard EN 250.

References to EN250 - Object, Definitions, Limits

Object: The requirements and tests provided for in EN 250 are aimed at providing a minimum safety level for the operation of diving breathing apparatuses at a maximum depth of 40 m / 132 feet.

Scuba : Definition (EN 132): Self-contained, open-circuit compressed air underwater breathing apparatus is an apparatus which has a portable supply of compressed air carried by the diver, allowing him to breathe underwater.

Scuba- Minimum equipment (EN 250):

- a) Air cylinder/ cylinders
- b) Demand regulator
- c) Safety device, e.g. pressure gauge / computer or reserve or alarm.
- d) Carrying frame or holding device for air cylinder(s) to mount the harness or carrying system, e.g. backpack and/or straps.
- e) Face piece: mouth piece assembly or full face mask or diving helmet.
- f) Operating instructions.

SCUBA - Component Units (EN 250): The Kirby Morgan SuperFlow Scuba Regulator Assembly described in this guide may be combined with other Scuba components such as cylinders and pressure gauges certified in compliance with EC directive 89/686 and EN 250. The air contained in the cylinders must comply with the requirements for breathable air set forth in EN 1 32 - Appendix A.

DEFINITIONS (EN 250)

COLD WATER DIVING - water temperature below +1 0°C (50°F)

WARM WATER DIVING - water temperature over +1 0°C (50°F)

MAXIMUM DEPTH: 50 m / 164 feet.

STORAGE TEMPERATURES: +70°C / -30°C (max/min)

Kirby Morgan SuperFlow Scuba Regulator Assembly

Thank you for choosing a Kirby Morgan regulator.

Your new regulator assembly has been designed and manufactured with pride, according to Kirby Morgan's world renowned exacting standards for quality and performance. The Kirby Morgan SuperFlow



Regulator is a high performance scuba regulator which was designed for the professional scuba diver. The second stage is a modified version of the same regulator used on the Kirby Morgan SuperLite-17B Helmet. Many of the parts used in the SuperFlow are identical to those used on our helmets and Band Masks. This is helpful to dealers in stocking parts for service and repair.

The first stage used on the SuperFlow regulator is known as our HiVent first stage. This regulator was developed from the technology used in our Kirby Morgan Air Control Systems. It offers an exceptionally high flow of air with a minimum pressure drop.

Provided it has been purchased new from an Authorized KMDSI Dealer, your regulator assembly is covered by KMDSI's Limited Warranty. Be sure to read and fill out the warranty card completely and return the bottom portion within ten (10) days of purchase. Also save your sales receipt. A copy of your receipt must be presented whenever obtaining warranty service.

Perhaps more than any other piece of diving equipment, your regulator's function and performance relies greatly on the care and maintenance it will receive, in addition to regularly scheduled dealer service. Before you dive with your new Kirby Morgan regulator, it is important to read this guide in its entirety; to become familiar with its features, as well as the correct procedures for setup, pre-dive inspection, and post-dive maintenance.

General Precautions and Warnings

Before using this regulator assembly, you must have successfully received training and certification in the technique of scuba diving from a recognized certification agency (or any U.S. Military or government operated diving school).

Use of this equipment by a person who is not certified by a recognized agency shall render all warranties, express or implied, null and void. Use of scuba equipment by uncertified, or untrained persons, is dangerous and can result in serious injury or death.



WARNING

Never lubricate any part of the regulator or cylinder valve with any lubricant. Lubrication must only be performed by a KMDSI factory trained technician. Improper lubrication can lead to regulator malfunction. Drowning can result.



CAUTION

Do not use the regulator first stage as a carrying handle when lifting or transporting the cylinder. Always lift the cylinder by the cylinder valve handle without the regulator attached. The regulator can be damaged if you use it to lift the cylinder.



CAUTION

Factory prescribed service for this regulator assembly must be performed at least once each year by a factory trained technician who is employed by an Authorized KMDSI Dealer. Repair, service, disassembly, or first stage adjustment must not be attempted by persons who are not factory trained and authorized by KMDSI.



CAUTION

Do not leave a cylinder standing unsecured with the regulator attached to the valve. Doing so may cause permanent damage to the regulator and cylinder valve if the cylinder falls over against the first stage.

Preparation and Setup

KMDSI recommends that you bring your regulator assembly to your Authorized KMDSI Dealer for the installation of any accessory items, including instrumentation, LP quick disconnect hoses, and alternate air sources. Your dealer can also answer any questions you may have pertaining to the information in this guide.

1. (Adjustable models only) If the adjustment knob has been turned "out" (counter-clockwise), gently turn it "in" (clockwise), only until it stops. Do not apply excessive pressure.
2. If you are using a standard cylinder with a yoke connector valve, inspect the cylinder valve O-ring for any wear or damage.

Mounting the First Stage Onto the Cylinder Valve (Yoke Connector)

1. Partially unscrew the yoke screw of the first stage regulator so that the dust cap can be removed from the filter and air inlet.
2. With the cylinder valve facing away from you, release a small amount of air from the cylinder. When air is heard exiting, immediately close the valve. This will clear any moisture or debris that may be inside the cylinder valve outlet opening.
3. Place the first stage regulator over the cylinder valve so that the inlet fitting aligns with the O-ring of the cylinder valve, and the LP hose of the primary second-stage will be routed over the right shoulder. While holding the first stage in place, turn the yoke screw clockwise. Ensure that the yoke screw mates into the small dimple on the backside of the cylinder valve, and tighten finger tight only.
4. If a submersible pressure gauge is attached to the first stage, ensure that the gauge is facing away from you. Pressurize the regulator by slowly turning the cylinder valve handwheel counter-clockwise. Continue turning the cylinder valve hand wheel counter-clockwise until it is fully open, and then turn back clockwise $\frac{1}{4}$ - $\frac{1}{2}$ turn.
5. Listen near the first stage to check for any leakage. If leakage is detected, immerse the first stage and cylinder valve while pressurized to determine the source.
6. If leakage has been detected, follow the procedure for removing the regulator from the cylinder valve. If air was leaking between the first stage and cylinder valve, replace or reseal the cylinder valve O-ring as needed.

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and repeat the above procedure. If leakage persists, **do not dive with the regulator!** Return the regulator to a KMDSI Dealer.

Pre-Dive Checkout

Before each use, the regulator assembly must be given a thorough visual inspection and functional test. **NEVER** dive with a regulator that shows signs of damage, or provides substandard performance until it has received complete inspection and service from an Authorized KMDSI.

Inspection Checklist:

1. Remove the dust cap and closely inspect the condition of the first stage filter. It should appear clean and free of any corrosion or discoloration. If a green residue is visible on the surface of the filter, moisture has entered the first stage and may have caused corrosion to begin forming inside which can seriously impair the regulator's performance.

Other colored residue may indicate that the regulator has been used with an internally corroded aluminum (white/ gray powder) or steel (rust) cylinder. In this event, the cylinder in question should be returned to the dive store for internal visual inspection.



WARNING

If discoloration or contaminant residue is found to be present on the surface of the first stage filter, do not dive with the regulator until it has received factory prescribed service from an Authorized KMDSI Dealer. The presence of contaminants could cause the regulator to malfunction, leading to serious personal injury or death.

2. Prior to each use, the regulator assembly must be given a thorough visual inspection and functional test. Carefully inspect all hoses at their fittings to ensure they are securely connected into their respective ports on the first stage.

If hose protectors are present, slide the protectors back to expose the hose fittings, and inspect the fittings. Inspect the length of each hose to ensure that the hoses are not blistered, cut, or otherwise damaged.

3. Visually inspect both the first and second stage regulators for any signs of external damage.

4. Slowly back out on the demand regulator adjustment knob (counter clockwise until a slight free flow develops, then slowly rotate the adjustment knob in (counterclockwise) until the free flow stops. At this point the regulator is set for the least amount of breathing effort. Test breathe by taking several

shallow and deep breaths to ensure the regulator breathes properly.

Next check the purge as follows. With a finger over the mouth piece press in on the purge button, the purge button should travel between 1/6" to 1/8" inch before air starts flowing. When depressing the purge button all the way in a strong surge of gas should be felt. If the purge button travel is greater than 1/8", the regulator should be re-adjusted by a KMDSI certified technician.

During the Dive

1. The Super-Flow demand regulator can be adjusted by the diver during the dive by simply rotating the spring bias adjustment OUT (counter clockwise) to make the demand valve more sensitive or IN (clockwise) to make the demand valve less sensitive. In normal operation the demand adjustment should be set at the easiest breathing setting by rotating the adjustment knob OUT (counterclockwise) until a slight free flow develops and then rotate it in until the free flow stops. At this point the diver will be taking full advantage of the demand valve's performance.

Note: prior to entering the water or removing the regulator from your mouth, the regulator adjustment knob should be rotated IN (clockwise about 1-1 ½ turns) to keep the regulator from free flowing when the mouthpiece is exposed to the turbulence of the water. As soon as the regulator is placed back in the mouth and breathing resumes, the knob should be readjusted for minimal breathing effort.



WARNING

Diving an adjustable demand regulator that is adjusted to breathe with heavy resistance could cause the diver to become exhausted. This could lead to drowning. Always adjust the demand regulator for the easiest breathing.

After the Dive

If fresh water is available, rinse your regulator completely while it is still connected to the tank before depressurizing it. This helps to prevent any contaminants from entering sealing surfaces inside the regulator. If this is not possible, follow the procedure for removing the regulator assembly from the cylinder valve (below) and then rinse.

Removal of the Regulator Assembly from the Cylinder Valve

1. Shut off the cylinder air supply by turning the cylinder valve hand wheel clockwise until it stops.

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2. While observing the submersible pressure gauge, depress the purge button of the second-stage. When the gauge reads zero and airflow can no longer be heard from the second stage, release the purge button.
3. Turn the yoke screw counter-clockwise to loosen it and remove the first stage from the cylinder valve.
4. Dry the dust cap with a towel or other lint-free cloth. While you may use air from your tank valve to blow the water off the dust cap, you run the risk of blowing out the dust cap O-ring and losing it.
5. Place the dust cap over the first stage inlet fitting and seal it securely in place by tightening down the yoke screw. Do not overtighten the cap.

Safety Precautions

To ensure the best possible regulator performance, and to avoid damage to regulator assembly parts, use only KMDSI original factory replacement parts.

To avoid damage to regulator assembly parts, only the correct size and type of tools should be used. In particular, the use of adjustable wrenches should be avoided wherever possible to avoid damage to soft brass parts.

Preventative Maintenance

Routine maintenance is the best way to ensure long regulator assembly life and optimum performance. All end users should be instructed in the proper procedures for regulator care.

- 1) Whenever the regulator assembly is removed from the scuba cylinder, the dust cap should be dried and installed over the first stage inlet port. It is very important to dry the dust cap to prevent water from the cap from entering the first stage. Screw the regulator set screw down until snug and you have slightly compressed the rubber dust cap.
- 2) To clean the regulator assembly after diving the regulator should, at a minimum, be thoroughly rinsed with fresh, clean water.
- 3) If available, the second stage assembly should be soaked in warm tap water. The temperature of the water should not exceed 120 degrees F. This will remove salt and mineral deposits more effectively than fresh water alone.
- 4) Allow the regulator assembly to dry completely before storage by laying it on a clean towel. Do not leave the regulator assembly sitting in direct sunlight. Shake the second stage to ensure no water is trapped inside the second stage.

5) Screw the adjustable regulator adjustment knob all the way out, away from the second stage body. This will lengthen the life of the regulator seat considerably.

6) Store the regulator assembly in a clean, air tight bag.

7) If the regulator assembly is to be stored for an extended period, wipe the rubber parts, such as the exhaust "T" and the low pressure hose, with a light coating of silicone grease.

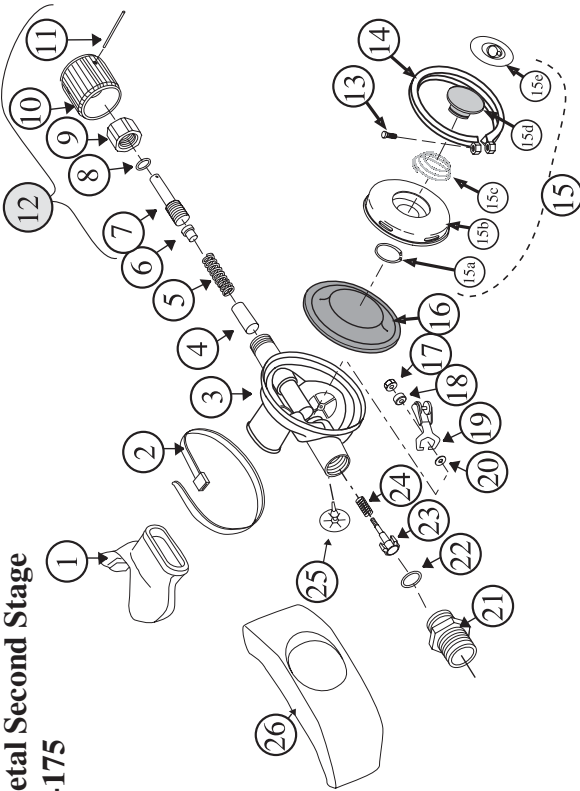
Scheduled Maintenance

Do not assume that a regulator assembly is in good working order because it has been used only slightly. Prolonged or improper storage can still result in O-ring deterioration or internal corrosion.

1) The minimum maintenance suggested for all regulators is an annual inspection and service. However, regulators which are used frequently, or in severe environments should be serviced more often. For example, a regulator used heavily in a salt water environment may require service twice a year or more. Regulators used in rental, swimming pools, or exposed to other chemicals may require service every three months or less. Service should only be done by an Authorized KMDSI dealer.

2) The sintered filter (#3 in blowpart, see page 15) in the high pressure yoke retainer should be inspected on a regular basis. If it is discolored with either rust or aluminum oxide, this indicates that contaminants have entered the first stage regulator. The regulator should be thoroughly serviced. In addition, the scuba cylinder that was the source of the contamination must be internally inspected and cleaned prior to using it with the regulator again.

**KMDSI Metal Second Stage
Part # 305-175**

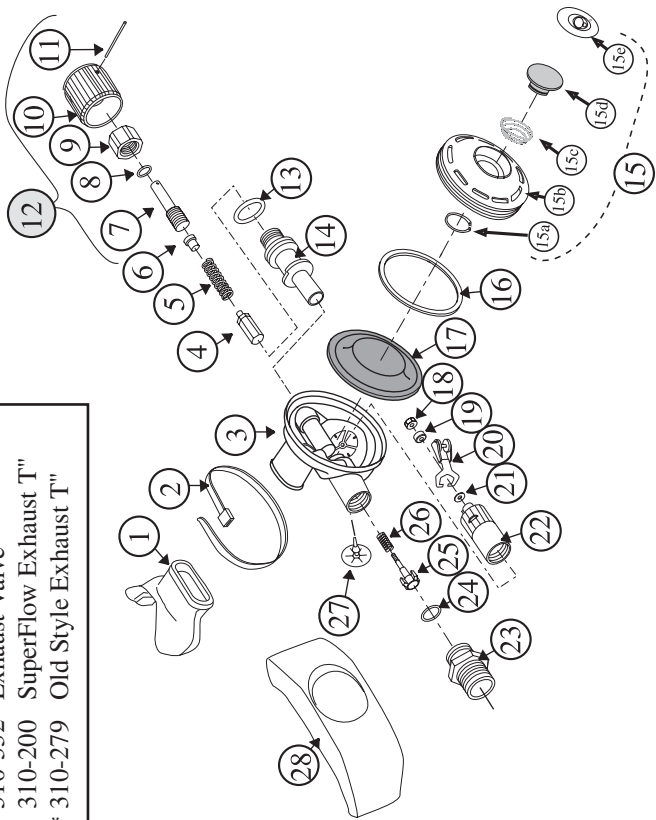


| | | |
|----|---------|-----------------------|
| 20 | 530-506 | Washer |
| 21 | 550-046 | Inlet Nipple "A" |
| 22 | 510-014 | O-Ring |
| 23 | 545-026 | Inlet Valve |
| 24 | 535-915 | Spring |
| 25 | 510-552 | Exhaust Valve |
| 26 | 310-279 | Exhaust T" |
| | 310-200 | Exhaust T", High Flow |

| Part# | Description |
|-------|------------------------------------|
| 1 | 310-227 Mouthpiece, Regular, Black |
| 2 | 310-278 Mouthpiece, Large, Clear |
| 3 | 520-039 Tie Wrap |
| 4 | 545-028 Regulator Body |
| 5 | 550-099 Piston |
| 6 | 535-910 Spring |
| 7 | 350-210 Spacer |
| 8 | 510-045 Adjustment Shaft |
| 9 | 510-011 O-Ring |
| 10 | 350-025 Packing Nut |
| 11 | 320-035 Adjustment Knob |
| 12 | 530-601 Roll Pin |
| 13 | 305-015 Adj. Knob Ass'y |
| 14 | 530-030 Screw |
| 15 | 545-020 Reg. Cover Clamp |
| 15a | 545-018 Cover Assembly |
| 15b | 535-905 Retaining Clip |
| 15c | 540-055 Cover |
| 15d | 535-810 Spring, Purge Button |
| 15e | 520-017 Purge Button |
| 16 | 320-077 Purge Button Sticker |
| 17 | 510-553 Diaphragm |
| 18 | 530-303 Lock Nut |
| 19 | 550-052 Spacer |
| 20 | 545-038 Roller Lever Ass'y |

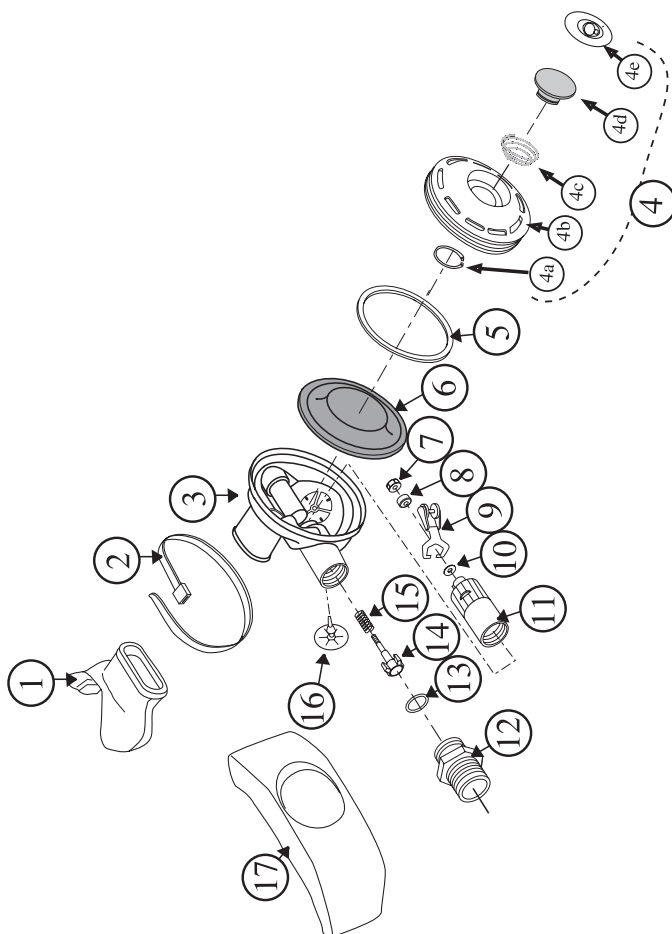
Plastic Adjustable
Second Stage
Part # 305-166

| | | |
|-----|---------|----------------------|
| 21 | 530-506 | Washer |
| 22 | 350-200 | Inlet Tube |
| 23 | 350-003 | Inlet Nipple |
| 24 | 510-016 | O-Ring |
| 25 | 545-026 | Inlet Valve |
| 26 | 535-915 | Main Spring |
| 27 | 510-552 | Exhaust Valve |
| 28 | 310-200 | SuperFlow Exhaust T" |
| 28* | 310-279 | Old Style Exhaust T" |

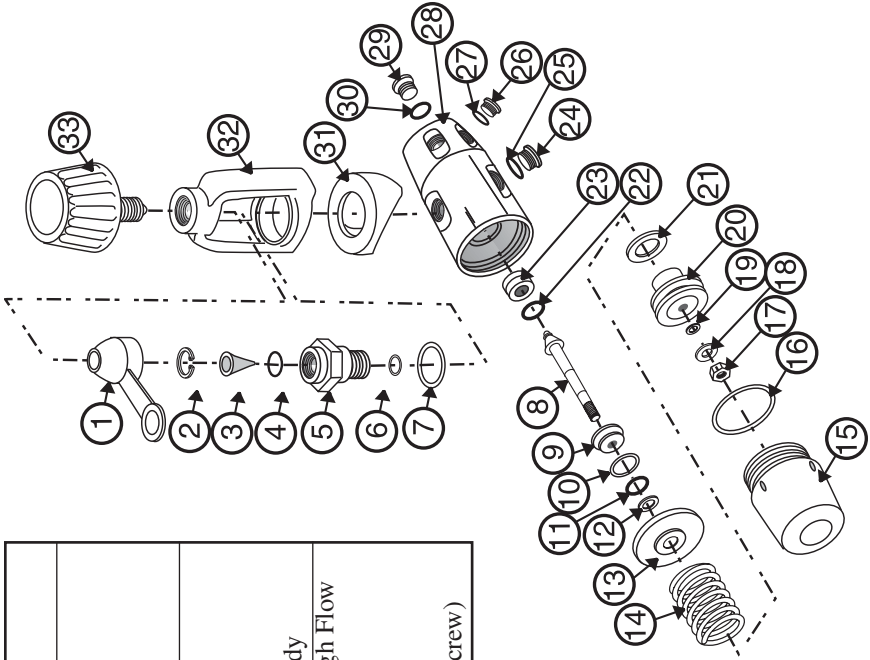


| Part# | Description |
|-------|------------------------------------|
| 1 | 310-278 Mouthpiece, Large, Clear |
| 2 | 310-277 Mouthpiece, Regular, Black |
| 2 | 520-039 Tie Wrap |
| 3 | 320-006 Regulator Body Ass'y |
| 4 | 550-098 Piston |
| 5 | 535-910 Spring, Adjustment |
| 6 | 350-210 Spacer |
| 7 | 350-045 Adjustment Shaft |
| 8 | 510-011 O-Ring |
| 9 | 350-025 Packing Nut |
| 10 | 320-035 Adjustment Knob |
| 11 | 530-601 Roll Pin |
| 12 | 305-015 Adj. Knob Ass'y |
| 13 | 510-016 O-Ring |
| 14 | 350-205 Adjustment Tube |
| 15 | 305-180 Cover Ass'y |
| 15a | 535-905 Retaining Clip |
| 15b | 350-075 Cover |
| 51c | 535-810 Spring, Purge Button |
| 51d | 520-017 Purge Button |
| 51e | 320-077 Purge Button Sticker |
| 16 | 320-030 Washer |
| 17 | 510-553 Diaphragm |
| 18 | 530-303 Lock Nut |
| 19 | 550-052 Spacer |
| 20 | 545-038 Lever Arm Ass'y |

Plastic Non-Adjustable Second Stage Part # 305-171



| Part# | Description |
|------------|----------------------------|
| 1 310-278 | Mouthpiece, Large, Clear |
| 310-277 | Mouthpiece, Regular, Black |
| 2 520-039 | Tie Wrap |
| 3 320-007 | Regulator Body Ass'y |
| 4 305-185 | Cover Ass'y |
| 4a 535-905 | Retaining Clip |
| 4b 350-095 | Cover |
| 4c 535-810 | Spring, Purge Button |
| 4d 520-017 | Purge Button |
| 4e 320-077 | Purge Button Sticker |
| 5 320-030 | Washer |
| 6 510-553 | Diaphragm |
| 7 530-303 | Lock Nut |
| 8 550-052 | Spacer |
| 9 545-038 | Lever Arm Ass'y |
| 10 530-506 | Washer |
| 11 350-200 | Inlet Tube |
| 12 350-003 | Inlet Nipple |
| 13 510-016 | O-Ring |
| 14 545-026 | Inlet Valve |
| 15 335-030 | Main Spring |
| 16 510-552 | Exhaust Valve |
| 17 310-200 | SuperFlow Exhaust T" |



| Part# | Description |
|-------|------------------------------|
| 21 | 350-215 Shim |
| 22 | 510-012 O-Ring |
| 23 | 350-120 Seat |
| 24 | 350-092 Plug H.P. |
| 25 | 510-012 O-Ring |
| 26 | 550-094 Plug L.P. |
| 27 | 310-003 O-Ring |
| 28 | 350-135 Regulator Body |
| 29 | 350-062 Plug, L.P. High Flow |
| 30 | 510-013 O-Ring |
| 31 | 320-085 Saddle |
| 32 | 350-110 Yoke |
| 33 | 330-050 Knob (yoke screw) |

| Part# | Description |
|-------|-----------------------------|
| 1 | 410-026 Protector Cap |
| 2 | 430-060 Retainer Ring |
| 3 | 355-035 Filter, Sintered |
| 4 | 510-013 O-Ring |
| 5 | 350-131 Yoke Retainer |
| 6 | 510-011 O-Ring |
| 7 | 310-115 O-Ring |
| 8 | 350-105 Poppet |
| 9 | 350-137 Packing Disk, Small |
| 10 | 310-023 O-Ring |
| 11 | 510-010 O-Ring |
| 12 | 410-010 O-Ring |
| 13 | 350-133 Packing Disk, Large |
| 14 | 335-010 Spring |
| 15 | 250-020 End Cap |
| 16 | 310-022 O-Ring |
| 17 | 330-320 Lock Nut |
| 18 | 330-510 Washer |
| 19 | 510-008 O-Ring |
| 20 | 350-086 Piston |

KMSI First Stage
Part # 305-161

Warranty

KMDSI warrants every new Mask, Helmet, Scuba Regulator, Manifold Block or Kirby Morgan Air Control System 5 (KMACS 5) (each, a Product) to be free from defects in workmanship for a period of one (1) year from the date of purchase from a KMDSI authorized dealer. This warranty covers all metal and plastic parts, but does NOT cover rubber parts.

Any defect of the product in workmanship or material covered by this warranty discovered within ninety (90) days from the date of purchase must be promptly communicated in writing to the nearest authorized KMDSI dealer or (if no such dealer in the buyer's country) contact KMDSI directly at (805) 928-7772. ***No Product returns will be accepted by KMDSI without a returned merchandise authorization (RMA) number from KMDSI.*** Upon receipt of the RMA from KMDSI, the buyer should return the defective Product or part, freight prepaid, to an authorized KMDSI dealer or the KMDSI plant, as directed by the RMA. KMDSI will repair or replace the Product at no charge, within a reasonable time, as it deems necessary.

This warranty is null and void if:

- 1) The Product is not registered with KMDSI within ten (10) days of purchase, or
- 2) The Product has not been properly serviced and/or maintained according to KMDSI factory recommended procedures described in the manual or Product updates have not been performed as recommended by KMDSI,
or
- 3) Unauthorized attachments or modifications have been made to the Product, or
- 4) The Product has been used for purposes other than those for which it was designed, or otherwise has been abused, misused, or subjected to unusual conditions, or the Product's intended service has been exceeded.

EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE PRODUCT COVERED BY THIS WARRANTY IS MARKETED AND SOLD BY KMDSI SOLELY FOR COMMERCIAL OR INDUSTRIAL USE AND IS NOT A CONSUMER PRODUCT INTENDED FOR PERSONAL, FAMILY, OR HOUSEHOLD USE.

In purchasing any Product subject to this warranty, the buyer agrees that its sole and exclusive remedy and KMDSI's entire obligation in contract, tort, or otherwise under this contract will be repair or replacement at KMDSI's option of the Product or any parts which KMDSI determines during the applicable warranty period are defective in workmanship or material covered by this warranty. All exchanged parts are the property of KMDSI. The buyer's exclusive remedy and the KMDSI's entire liability in contract, tort, or otherwise is the payment by KMDSI of the buyer's actual damages up to but not to exceed the amount paid by the buyer for the Product.

In no event shall KMDSI be liable to the buyer for indirect, special, incidental or consequential damages (including, but not limited to, damages for lost profits, lost sales, loss of business opportunity, or for injury to persons or property arising out of the use of the Product). Any claim or action for breach of warranty must be commenced within one year following delivery of the Product to the buyer.

Buyer acknowledges that this warranty is the sole and exclusive warranty of the Product and that it supersedes any and all oral or written representations and undertakings between KMDSI, its dealers, and the buyer relating to the Products. This warranty allocates the risks of product failure between KMDSI and the buyer, which allocation is recognized by both parties and is reflected in the price of the goods. The buyer acknowledges that it has read this agreement, understands it, and is bound by its terms.

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