

Background

At Rx Safety we also make dive mask lenses, trading as Rx Dive. Rx Dive has been making prescription dive masks since January 2009 specialising in surfacing and laminating customised prescription glass lenses onto scuba diving masks.

Each lens is Australian made at our Adelaide laboratory by our highly experienced optical team. Lenses are customised to the diver's individual needs and are laminated onto the faceplate of the dive mask in-house.

We offer a range of diving masks using top brands including Tusa, Hollis, Apollo and Aqua Lung, all ideal for fitting with our prescription lenses.

Diving Mask Lenses



Single Vision Lenses

Our single vision lenses are available in a wide script range including high prism and high cylinder. We're happy to work with difficult scripts; just ask us.



Bifocal Lenses

The diver can enjoy optimum near and distance correction using our 35mm wide bifocal. The bifocal segment is positioned to minimise image jump. We also offer Franklin bifocals, which are a variant of bifocal lenses, for very high add powers and for improved near peripheral vision.



Mixed Lens Types

For various reasons, some divers prefer to have a mixed lens combination. We can supply the following options:

- Gauge reader for one eye, no lens in other faceplate
- Single vision for one eye, no lens in other faceplate
- Bifocal for one eye, no lens in other faceplate
- Gauge reader for one eye, single vision for other eye
- Single vision for one eye, bifocal for other eye



Gauge Reader Lenses

Divers that need only near vision correction benefit from our gauge reader lenses. These lenses are typically used for reading diving computer gauges and by those that engage in underwater photography. We can also allow for astigmatism correction.

Dive Mask Selection

Because everyone has a slightly different head shape, some masks will fit and seal better than others. Diving patients need to thoroughly test the seal of their selected mask. The mask should stick to the face when the diver breathes in and remain stuck to the face when holding a deep breath.

At Rx Dive our range of in-house stocked masks come in a range of sizes suitable for small to large heads. The range includes:

- **Hollis M1** – Large / X-Large face shape
- **Hollis M3** – Large / X-Large face shape
- **Apollo Black Demon** – Small / Medium face shape
- **Apollo SV-2** – Average / Medium face shape
- **Aqua Lung Linea** – Small face shape
- **Tusa Freedom Ceos M-212** – Average / Medium face shape

Mask range can be viewed at rxsafety.com.au

It is recommended that patients visit their local dive shop to try on different mask designs by the above brands to find the mask with the best fit.

Can an existing mask be used?

While we are able to use an existing mask, there are risks associated with using older masks. Ultraviolet light exposure causes brittleness of the retention clips which can be damaged when removing the lens for lamination of the prescription glass. In most instances a new mask is recommended.



Lens Selection

Exclusive to Rx Dive is a unique range of high refractive index lenses for dive masks. This technology has enabled Rx Dive to expand the prescription availability and make the lenses thinner and lighter for the wearer.

Scripts for Scuba Divers

Minus scripts

Single vision lenses in crown glass scripts to -10D are possible and higher minus scripts up to -14D can be made using 1.8 index glass.

Where an add power is required, a bifocal D35 using 71mm D35 blanks made out of crown glass is applied.

Occasionally a minus script is supplied with an add power of similar magnitude to the distance. It may be possible to make a reverse gauge reader.

Plus scripts under 1 D

The diver may not need any corrective power as the magnification of water will assist here. However, if there is a cyl present then it is worth making scripted lenses. The decision on how to proceed is a matter of judgement between you and the patient.

Low plus bifocal scripts

These scripts may suit a gauge reader which has a segline that will give a more defined image jump. Gauge readers are best when the gauge power is less than +2.50D. Powers over this will start having significant segline width, the result of which causes image jump and discomfort for the diver.

Plus scripts with add power

A D35 lens will deliver the best results for plus scrips with add power. Addition powers are 1.00 to 2.75D.

Very high plus script

For manufacturing reasons, the highest sphere plus power Rx Dive can make in crown glass refractive index is +7.00 D. This power limitation is typical for crown glass and bifocals. However, higher plus scripts of up to 11D can be made using higher refractive index glass.

As a rule: the higher the plus script, the smaller the lens. Therefore, the diving patient needs to understand the coverage of the faceplate will almost certainly not be complete.



Franklin bifocals

Franklin bifocals serve divers with very high plus bifocals and also assist in improving near peripheral vision. Near peripheral vision is improved because the near field of view is much wider. Franklin bifocals require two sets of lenses and are a more costly option.

Scripts for Snorkelling or Spear Fishing

Patients that want vision correction for snorkelling or spear fishing will require distance scripts, even if they ordinarily wear a bifocal. The reason for this is that bifocals restrict the field of view for distance viewing.



What We Do

Specialty optics

Prescription safety eyewear

Prescription dive masks & goggles

Leaded X-ray protection glasses

Prescription glass

Specialty tinting

Contact Our Team

Australia

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Marking Bifocal or Gauge Reader Height

With the mask fitted with the strap, mark the pupil as accurately as possible. Remove mask and then recheck the markings. Many masks fit with the pupil at 5mm or more up from the datum point.

Ask the diver about the position they would be in if underwater. An allowance needs to be made for a more horizontal position.

Mark the segment position. As a guide, a segment height at 10-12mm below the pupil suits most divers. Keen photographers will tend to have the segment set a little higher from 6-8 mm below the pupil.

Double check the segline position. Ask the patient to test the dive mask worn in the normal position. Dive gauges or camera viewfinders need to be considered when testing the mask and adjustments accordingly made.

How to order

It's easy to do business with us even if you don't have an account.

1. Fill out your lens order using your own script pad or use ours at:
<https://rxsafety.com.au/order-forms/>
2. Email or fax your order to our team
Email: ebolto@rxsafety.com.au
Fax: 1800 111 461

We accept credit card payment (VISA or MasterCard) or payment via EFT.

Find out more

For the full product range, catalogue and further information please visit **rxsafety.com.au** or contact Rx Safety's friendly team who are always happy to help.