

## Masks, Helmets & Suits Viking PRO



The Viking PRO is our biggest selling drysuit worldwide. Designed for flexibility and comfort in a wide range of applications. Vulcanised seams allow for peace of mind when diving under all situations. The PRO is easy to clean and repair which helps to minimise downtime.

- Internal stitched and taped seams
- External vulcanised seams
- Easy to clean exterior when contaminated
- Easy to repair in the field to minimise downtime
- Flexible and comfortable

### Suit design and materials

#### Fabric

Material is a blend of natural and synthetic rubbers (NR/EPDM), on a 2 way stretch knitted polyester lining. Total material weight is 1050 +/- 100 g/m<sup>2</sup>.

#### Colour

Red with black reinforcements, or all black.

#### Seams

Internal seams stitched together with an elastic tape for security. External seams vulcanised with a 25mm rubber tape. Vulcanization is a chemical bonding process, ensuring watertight seams.

#### Reinforcements

Additional layers of anti slip textured rubber are applied to areas at risk of wear. The shoulders and the zipper are reinforced. The trouser rear reinforcement extends around the thigh and across to the front of the legs, and down over the boots.

#### Standards

- EN 14225-2:2005
- BIO micro organism approval

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### Suit components and options

#### Zipper

90 cm magnetic heavy duty zipper is fitted to all red suits as standard.

90 cm non magnetic zipper is fitted as standard to all black suits.

#### Valves

Standard configuration includes the following valves mounted on rubber backing discs:

Central chest: Viking Push protected inlet valve

Hose: CEJN fitting, 80 cm long

Upper left arm: Viking X2 exhaust valve with 2 mushroom valves for added security

Alternative options:

Non magnetic inlet valves, Apeks inlet valves. Non magnetic hoses.

Non magnetic exhaust valves, Apeks exhaust valves.

#### Boots

The standard boots are an extension of the leg, where a heavy duty flexible rubber outsole is stitched and taped to the end. The outsole features a non slip surface for grip. A fin strap retainer is on the heel.

Alternative options:

Neoprene lined boots, Nitrile safety boots with steel toe cap & midsole, PVC non safety boots.

#### Neckseal

The Viking PRO is fitted with a Surveyor latex neck seal as standard.

Alternative options:

Bellows latex neck seal, neoprene neck seal, quick connect collar system which allows for quick changing of broken seals.

#### Hood options

Viking PRO suits may be fitted with a wide range of hood options as follows:

Surveyor latex hood + thermal inner hood, Nautic neoprene hood with smooth face seal, Smoothskin hood, Turbo black rubber hood, Magnum black rubber hood.

If the suit has been fitted with a Quick Connect collar system, then specific latex and neoprene hoods are available for fitting.

#### Cuffs

Latex PRO cuffs are the standard fitment.

Cuff options: HD latex cuffs, bellows latex cuffs, short conical cuffs.

Glove ring options: In order to make the suit completely waterproof, it is possible to fit a rubber cuff ring system with fixed external rubber ring, and loose stiff plastic ring which holds the latex seal in place. The alternative is a plastic bayonet glove ring system with a plastic ring mounted on the sleeve, and a replaceable cuff held in place with a plastic ring. Both systems then make the fitment of a latex or Viton®/Butyl or Nitrile/Chloroprene glove possible.

#### Included with each delivery

Each suit comes supplied as standard with the following items:

Suspenders, carry bag, user manual, repair kit, zip care materials.

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### Accessories



#### Safety Boots

Nitrile boots are manufactured by an injection moulding process which means boots are a seamless construction, and therefore completely watertight.

Steel toe cap and misdsole provide good protection for the feet in dangerous working environments.

Good grip on the outsole.

Generally fitted as an option to any rubber suit, or to HAZTECH or Surface Rescue suits worn by Fire Rescue users in flood water situations.

Size range: 39, 40 1/2, 42, 43/44, 45, 46 1/2, 48, 49 1/2



#### Rubber Cuff Ring Kit

The cuff ring kit comprises of an outer rubber ring which can be glued to the end of the drysuit sleeve.

The latex wrist seal is then pulled over the inner plastic ring, and held in place with some plastic tape. The inner plastic ring and seal are then inserted down through the sleeve, until it pushes into place inside the rubber ring.

A latex glove may then be pulled over the outer rubber ring, and held in place by a rubber outer band for additional security.

Alternatively, the outer rubber ring can be mounted directly onto a latex seal which is already glued to the end of the sleeve, and the inner plastic ring inserted from inside the seal until it connects with the outer rubber ring.

#### MATERIAL

2 versions of the rubber ring are available:

STD for most rubber suits, trilaminate suits and XTREME PU suits.  
HDS made from NITECS rubber, for HDS and HAZTECH suits.



#### Surveyor Latex Hood

The Surveyor is a latex hood which is permanently attached to a suit, and provides a basic level of protection for contaminated water diving.

Basic protection for contaminated water diving  
Ideal for biological contaminated water diving  
Latex neck seal attached to the suit underneath the hood

Latex hood permanently attached to the suit.

Must be used in conjunction with a thermal liner to provide insulation, and to protect the ears.

Available in 2 sizes: Standard & Small



#### Rubber Drysuit Pockets

Rubber cargo pockets are made to mount on the thigh of a suit. Bellows construction, and with a webbing and buckle closure system. Black only. Standard rubber or HDS rubber.

Cylinder pockets are made from rubber, and include a lacing system to fit a range of pony cylinder sizes. Usually fitted on the thigh to allow for suit inflation where a diver is wearing a rebreather. Black only. Standard rubber or HDS rubber.

Knife pockets are made to mount usually on the lower leg. One size only. Black only. Made from standard rubber or HDS rubber.

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### Technical data

#### FCoated fabric

Property	Result	Standard
Thickness	1.20 mm +/- 0.10 mm	
Weight	1050 gm/m <sup>2</sup> +/- 100 g/m <sup>2</sup>	ISO 3801
Tensile Strength	Warp: min 800 N / 50 mm Weft: min 650 N / 50 mm	ISO 1421
Tear Strength	Warp: min 45 N Weft: min 45 N	ISO 4674
Puncture Resistance	Min 60 N	pr EN 863
Abrasion Resistance	Min 7000 rounds to rubber breakthrough	ISO 5470-1 H18, 250 g

#### HZ TEST RESULTS TABLE (VIKING PRO DOES NOT MEET HZ REQUIREMENTS DUE TO FAILURE OF LIQUID B TEST)

Chemical	Permeation BT Time (min)	Protection index
SULPHURIC ACID, H <sub>2</sub> SO <sub>4</sub> (aqueous)	MATERIAL > 480	HIGH
	SEAM > 480	HIGH
	ZIPPER > 480	HIGH
SODIUM HYDROXIDE, NaOH, 50% (aqueous)	MATERIAL > 480	HIGH
	SEAM > 480	HIGH
	ZIPPER > 480	HIGH
ISOPROPANOL	MATERIAL > 480	HIGH
	SEAM > 480	HIGH
	ZIPPER > 480	HIGH
TOLUENE, 0.05% (aqueous)	MATERIAL > 480	HIGH
	SEAM > 480	HIGH
	ZIPPER > 480	HIGH
LIQUID B (70% ISO-OCTANE & 30% TOLUENE)	MATERIAL 20	FAIL
	SEAM 19	FAIL
	ZIPPER 48	FAIL
LIQUID F (80% PARAFFIN OIL & 20% METHYLNAPHTHALENE)	MATERIAL 213	HIGH
	SEAM 117	HIGH
	ZIPPER > 480	HIGH

Minimum breakthrough time required: 20 minutes. Low protection Index: 20 - 60 minutes. High protection Index: > 60 minutes

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